Ref: 0301-2119_06

17 August 2022

Erran Woodward
Environment Manager
Acciona Ferrovial Joint Venture
Sydney Metro West – Central Tunnelling Package

Via email only: erran.woodward@ctp-afjv.com.au

Dear Ms Woodward,

RE: Interim Site Audit Advice – Site Auditor Endorsement of Detailed Site Investigation, Burwood Station, Sydney Metro West.

Introduction

James Davis of Enviroview Pty Ltd has been engaged by Acciona Construction Pty Ltd and Ferrovial Construction Pty Ltd (the 'AFJV') to provide the services of a NSW EPA Contaminated Land Accredited Site Auditor, to conduct a Site Audit in accordance with the *Contaminated Land Management Act 1997* and relevant guidelines made or approved under s.105 of that Act in relation to the Site identified as Burwood Station, Sydney Metro West Central Tunnelling Package (the 'Site'[1]).

The objective of the Site Audit, depending on the outcome of the site investigation is to provide a Site Audit Report and Site Audit Statement to certify, in relation to contaminated land, the Site Auditor's opinion of whether the Site is suitable for the proposed use or the Site can be made suitable with the implementation of a Remedial Action Plan.

The requirement for the Site Audit is to meet specific conditions of the Conditions of the State Significant Infrastructure approval (SSI 10038) and clauses of an agreement made between the NSW Government and the AFJV (the *Deed Agreement*).

A Site Audit Interim Advice is issued by a Site Auditor following the review of reports and to assist in the management of contamination issues at a Site regarding requirements of the Site Audit at a particular stage of the Site Audit prior to the Site Audit being concluded. An interim advice does not constitute a Site Audit Statement or a Site Audit Report and does not pre-empt the final Site Audit conclusions. A Site Audit Report and Site Audit Statement will be prepared at the conclusion of the Site Audit.

[1] *The specific area of the Site is as defined as the 'Study Area' notated in figure F1 of the Detailed Site Investigation Report (ERM, 17 August 2022).*

The purpose of this interim advice is to provide an endorsement of the Detailed Site Investigation by the Site Auditor as required by the *Deed Agreement* (clause 12.19).

Detailed Site Investigation Review

The Detailed Site Investigation that was recently undertaken at the Site is reported in the following report:

> Environmental Resources Management Australia Pty Ltd (ERM). *Detailed Site Investigation, Burwood Construction Site, Sydney Metro West; Central Tunnelling Package.* Report Reference: SMWSTCTP-AFJ-BWT-EN-RPT-000002 Revision 03 dated 16 August 2022. (the *Detailed Site Investigation Report*)

Prior to the completion of this report, the Site Auditor was provided the opportunity to review and provide comments on previous revisions of the report[2].

In support of the review of the *Detailed Site Investigation Report*, the Auditor has also considered information presented in the following document:

> ERM. *Sampling and Analysis Quality Plan, Burwood Station Construction Site, Sydney Metro West: Central Tunnelling Package.* Report Reference: 0577577 Final, dated 18 January 2022. (the *Sampling, Analysis and Quality Plan*)

The detailed site investigation work was undertaken in general accordance with the *Sampling, Analysis and Quality Plan* that was prepared with Site Auditor consultation.

The *Detailed Site Investigation Report* was found to be satisfactory in relation to the requirements of the NSW EPA *Guidelines for Consultants Reporting on Contaminated Land* (NSW EPA 2020).

The investigation identified the presence of bonded asbestos within fill at the site and the concentration of some heavy metals exceeded the relevant ecological investigation levels applicable to the proposed use.

The *Detailed Site Investigation Report* concluded that the human health and ecological risks from the presence of the identified contamination in areas of the site described as the 'Construction Area' would need to be managed through the preparation of a Remedial Action Plan[3] to render those parts of the site suitable for the proposed land use. The rest of the site, including the Station Box, which will be subject to extensive excavation, remediation is not required to render the site suitable, however, the excavation of spoil in this area will be undertaken to the requirements of a 'contaminated spoil management plan' to be consistent with the requirements of the project approvals and the project Construction Environmental Management Plan.

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[2] *Interim Audit Advice 0301-2119_03 and Interim Audit Advice 0301-2119_04.*

[3] *Both the terms Remediation Action Plan and Remedial Action Plan are used interchangeably by consultants within the NSW contaminated land industry – the preferred term is Remedial Action Plan as this is the term used in the current NSW EPA Guidelines for Consultants Reporting on Contaminated Sites.*

Site Auditor Endorsement of the Detailed Site Investigation

Based on the review of site investigation works, the *Detailed Site Investigation Report* is endorsed by the Site Auditor.

The recommendations for the development of a Remedial Action Plan to detail the works required to manage the identified soil contamination in the portion of the site identified as the construction area to render the site suitable for the proposed use, is agreed with.

If the Remedial Action Plan will involve the implementation of an Environmental Management Plan, for instance if in-situ containment is used to remediate the site requiring ongoing management, not only does this need to be practicable, the requirements of the EPA guidelines for there to be public notification and that it can reasonably be made to be legally enforceable will also need to be satisfied.

The management of spoil excavated from the station box, by a 'contaminated spoil management plan' is deemed acceptable on the basis that remediation in this area is not required to make the site suitable for the proposed use. However, some of the spoil from this area will have some level of contamination, albeit below that which would require remediation if it remained on site, and as such does require management during excavation regarding the placement, storage, reuse and/or disposal. The preparation of the site-specific contaminated spoil management plan must ensure that the spoil is managed in accordance with plans approved under the project approval and requirements of NSW legislation relating to waste.

Closing

Thank you for your time regarding this matter. If you require additional information or clarification, please do not hesitate to contact me.

Yours sincerely



James Davis
NSW EPA Contaminated Land Site Auditor
Enviroview Pty Ltd



Detailed Site Investigation – Burwood

SMWSTCTP-AFJ-BWT-EN-RPT-000002 Revision 03

Sydney Metro West – Central Tunnelling Package

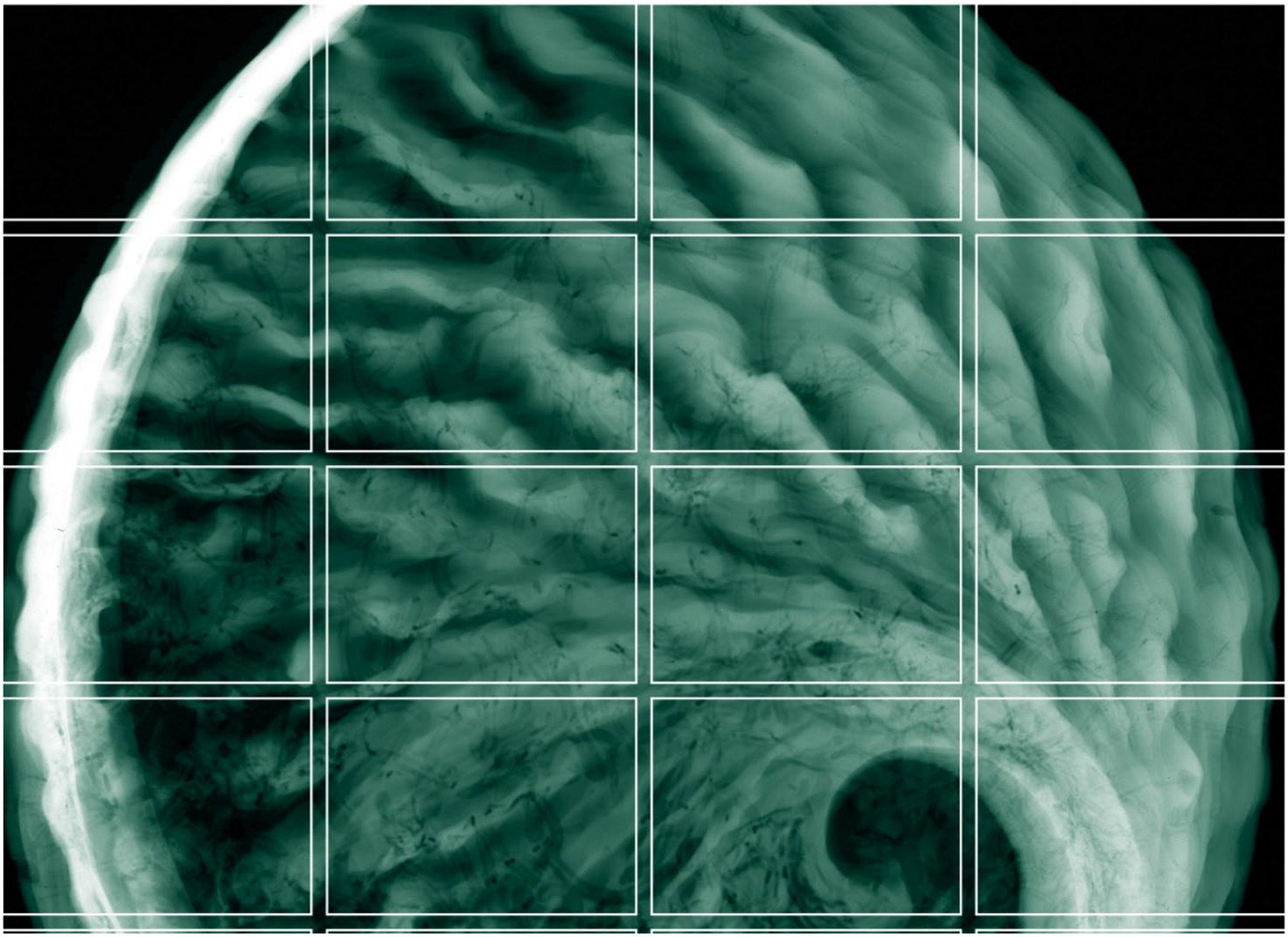


DOCUMENT APPROVAL

	Prepared By	Reviewed By	Approved By
Name:	ERM	Erran Woodward	Erran Woodward
Position:	Consultant	Environmental Approvals Manager	Environmental Approvals Manager
Date:	16/08/2022	16/08/2022	16/08/2022

REVISION HISTORY

Rev:	Date:	Pages:	By:	Description:
00	11/02/2022	All	ERM	For Site Auditor review
01	01/03/2022	All	ERM	Address Site Auditor comments For Sydney Metro review
02	01/07/2022	All	ERM	Address Sydney Metro comments For Sydney Metro Approval
03	16/08/2022	All	ERM	Clarify reference to CSMP For Sydney Metro Approval



Detailed Site Investigation

Acciona Construction Pty Ltd & Ferrovial Construction Pty Ltd Joint Venture.

Burwood Construction Site, Sydney Metro West; Central Tunnelling Package

16 August 2022

Project No.: 0628507

The business of sustainability

ERM

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Draft V2	01	Tristan Rodrigues Jessica Lawrence	Nicholas Grbich Peter Lavelle CEnvP SC	Ashton Hincksman	01.03.2022	Report updated to address comments in IAA
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Final V3	04	Joe Ferring	Peter Lavelle CEnvP SC	Ashton Hincksman	16.08.2022	Updating Commercial RAP to Contaminated Soil Management Plan

Signature Page

16 August 2022

Detailed Site Investigation

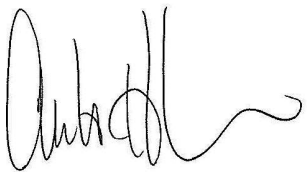
Burwood Construction Site, Sydney Metro West; Central Tunnelling Package



Tristan Rodrigues
Environmental Scientist



Jessica Lawrence
Principal Environmental Consultant /Project Manager



Ashton Hincksman
Partner



Peter Lavelle
CEnvP SC

Environmental Resources Management Australia Pty Ltd
Level 15 309 Kent Street
Sydney NSW 2000

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EXECUTIVE SUMMARY

Environmental Resources Management Australia Pty Ltd (ERM) was engaged by Acciona Construction Pty Ltd and Ferrovial Construction Pty Ltd (together "AFJV") to complete a Detailed Site Investigation (DSI) at the Burwood Construction Site (the Site). The Burwood Site forms part of the Central Tunnelling Package for the Sydney Metro West extension and is located at the junction of Parramatta Road and Burwood Road, to the north of Parramatta Road and east of Burwood Road, Concord, NSW.

This report focusses on the characterisation of the Site and the identification of contamination that could result in unacceptable exposure to ecological or human receptors that would require remediation to enable the Site to be made suitable for the current and proposed future use.

A total of 39 soil investigation locations were completed across the Site during this DSI; fourteen locations were completed inside the Station Box Area and 25 locations were completed outside the Station Box Area. Groundwater samples were also collected from two monitoring wells on the Site (one existing well and one new well).

Based on the intrusive investigation works completed at the Site and resultant analytical data, the following conclusions have been made relating to soil at the Site:

- The soil data set is considered to provide an appropriate level of site characterisation in accordance with the requirements of guidance made or approved under s105 of the Contaminated Land Management Act 1997.
- Fill materials on the Site were found to contain sandstone, concrete, brick, plastic. Asbestos containing material (ACM) fragments were found in two locations. Natural soils below the fill consist of silty clays and clays, with shale underlying the clays.
- Soil samples exceeded human health criteria and ecological screening criteria for lead in one location (BUR_BH115_0.5). However, the 95% Upper Confidence Limit (UCL) was below criteria for lead. Additionally, three primary samples exceeded the adopted EIL for copper and three primary samples exceeded the EIL criteria for zinc. Calculation of the 95% UCL for these results indicated all were compliant with the adopted EIL criteria.
- Polycyclic Aromatic Hydrocarbons (PAHs) were detected at numerous locations within fill materials across the Site. Carcinogenic PAHs as benzo(a)pyrene Toxic Equivalent Quotient (TEQ) were below the human health screening criteria.
- Polychlorinated Biphenyls (PCBs), pesticides, and Per-and Polyfluoroalkyl Substances (PFAS) concentrations in soil were below the adopted screening criteria.
- Bonded asbestos fragments were identified in two sample locations (BUR_BH116_0.2 ACM and BUR_BH123_0.3) within fill materials, however each detection was subsequently delineated in the north, south, east and westerly directions and both areas were considered to be hotspots.
- No significantly odorous soil was encountered, and odours are not considered likely to present a risk to the construction site. Photoionisation Detector (PID) screening results were below 50ppm.
- Volatile organic compounds (VOCs), Semi Volatile Organic Compounds (SVOCs) and Total Recoverable Hydrocarbons (TRH) did not exceed any of the human health or ecological screening criteria adopted.

The conclusions relevant to groundwater at the Site are as follows:

- The groundwater data is considered to provide adequate characterisation in accordance with the requirements of guidance made or approved under s105 of the Contaminated Land Management Act 1997.

- Concentrations of metals (one or more of arsenic, cadmium, copper, nickel and zinc) and total phosphorus and nitrogen in groundwater exceeded the adopted screening criteria in both groundwater wells sampled.
- There were no other exceedances of the adopted ecological or health screening criteria.
- A trace detection of 6:2 Fluorotelomer Sulfonate was reported in one groundwater sample (BUR_MW108) however there were no exceedances of the adopted ecological or health screening criteria reported.
- Dewatering of the Station Box is likely to result in groundwater flow changing from the inferred current flow towards the Parramatta River to a flow pattern where some of the groundwater below the Site flows towards the Station Box. This is not considered likely to result in any significant change to the overall quality of groundwater beneath the Site, or to the risk profile.

In summary the potentially viable Source-Pathway-Receptor (SPR) linkages that require remediation action (further assessment, remediation or management) comprise:

- Potential risks to Sydney Metro and future development construction and intrusive maintenance workforces and general public/ passers by via inhalation of dust (potentially including asbestos fibres).

Fill material within the identified asbestos hotspot areas could be remediated and disposed off-site and a Remediation Action Plan (RAP) would need to be developed. Considerations will need to be made for the sustainability of future actions during remediation planning.

ERM considers that the level of site characterisation achieved by this DSI is sufficient to provide a basis for a RAP, which should be developed to target asbestos detected in fill at BUR_BH116 and BUR_BH123. Given asbestos has not been detected in boreholes (or three test pits) across the remainder of the Site, implementing the processes in the Construction & Environmental Management Plan (CEMP) during the construction phase of works would be prudent in order to mitigate potential risks associated with unexpected finds of asbestos.

While a RAP is not required for the remainder of the Site to meet CoA D72 within the Conditions of Approval for Sydney Metro West – Concept and Stage 1 Construction (SSI 10038), soil and groundwater within the Station Box must be documented as required by the Sydney Metro West Central Tunnelling Works Design and Construction Deed (“the Deed”); this will be accomplished via a Contaminated Soil Management Plan (CSMP) for the Station Box.

The Burwood North Construction Site RAP is being prepared for the remainder of the Site for the purposes of rendering the Site suitable for use in accordance with the requirements of the Contaminated Land Management Act 1997, guidelines prepared under the Act and the ASC NEPM 1999 (NEPC 2013). Considerations will need to be made for the sustainability of future actions during remediation planning.

ERM considers that the applicable requirements of the Deed and the project CoA have been complied with.

1. INTRODUCTION

1.1 General

Environmental Resources Management Australia Pty Ltd (ERM) was engaged by Acciona Construction Pty Ltd and Ferrovial Construction Pty Ltd (together "AFJV") to complete a Detailed Site Investigation (DSI) at the Burwood Construction Site (the Site). The Burwood Site forms part of the Central Tunnelling Package for the Sydney Metro West extension and is located at the junction of Parramatta Road and Burwood Road, to the north of Parramatta Road and east of Burwood Road, Concord, NSW (refer to Figure 1 for site location).

The Site comprises land that will form the Burwood Metro station, as well as land used for construction support. The Metro station construction on the Site includes creation of a Station Box excavation and access shaft (both excavated from surface) tunnel sections entering and leaving the Station Box (bored tunnel) and a pedestrian tunnel beneath Parramatta Road. ERM understands the site areas that will not be developed for the Sydney Metro Station will be used for commercial/industrial activities.

The DSI involved soil and groundwater sampling completed by ERM between December 2021 and January 2022. Results of this investigation were reported in draft format for review by key stakeholders in February 2022. Based on results of this investigation, in particular asbestos detections, further soil investigation was undertaken by the ADE Group between 24 March and 6 May 2022. Outcomes of ERM's DSI and an additional asbestos delineation completed as part of ADE's Site Characterisation Assessment (SCA) are reported herein.

1.2 Objectives

The objectives of the DSI were to:

- obtain sufficient information to enable the proposed excavation to be conducted with appropriate in-situ waste classification of materials required to be excavated and removed from the Site, it is noted that waste classifications for the excavation of materials has not been provided within the body of the DSI and will form part of the Waste Classification Report, to be prepared by others;
- obtain enough environmental data to provide a characterisation of the Site in accordance with the applicable NSW and Australian guidance;
- comply with the Conditions of Approval for Sydney Metro West – Concept and Stage 1 Construction (SSI 10038) ("the CoA"), specifically Condition D71 which reads:

  Before commencement of any construction that would result in the disturbance of moderate to high risk contaminated sites as identified in the documents identified in ***Condition A1*** *of this schedule,* ***Detailed Site Investigations*** *(for contamination) must be conducted to determine the full nature and extent of the contamination. The* ***Detailed Site Investigation Report(s)*** *and the subsequent report(s), must be prepared, or reviewed and approved, by consultants certified under either the Environment Institute of Australia and New Zealand's Certified Environmental Practitioner (Site Contamination) scheme (CEnvP(SC)) or the Soil Science Australia Certified Professional Soil Scientist Contaminated Site Assessment and Management (CPSS CSAM) scheme. The* ***Detailed Site Investigations*** *must be undertaken in accordance with guidelines made or approved under Section 105 of Contaminated Land Management Act 1997 (NSW). The* ***Detailed Site Investigation*** *for Sydney Olympic Park metro construction site must be prepared in consultation with SOPA;* and
- comply with the requirements of the Sydney Metro West Central Tunnelling Works Design and Construction Deed ("the Deed") contract no. 00013/13033 between Sydney Metro and AFJV. The requirements of the Deed are provided in Section 1.3 below.

This report focusses on the characterisation of the Site and the identification of any contamination that could result in unacceptable exposure to ecological or human receptors that would require remediation to enable the Site to be suitable for the current and future use.

An in-situ waste classification report has been prepared separately to classify material that will be excavated from the Station Box and taken off-site for re-use or disposal. This has been included as Appendix J of this DSI .

1.3 Requirements of the Deed

With respect to the provision of DSIs, the Deed requires (clause 12.19):

(a) *Except for Preliminary Works, the Tunnelling Contractor must perform and submit to the Principal's Representative and the Independent Certifier a Detailed Site Investigation prior to commencing any excavation activities:*

(i) *at any Area of Contamination Concern; and*

(ii) *to the extent otherwise required under the Planning Approvals.*

(b) *Notwithstanding clause 12.19(a), the Tunnelling Contractor may also perform additional Detailed Site Investigations carried out in other areas of the Construction Site or outside the Construction Site if the Tunnelling Contractor deems it necessary to manage the risks associated with contaminated land and to appropriately plan for Remediation. Any additional Detailed Site Investigation performed in accordance with this clause 12.19(b) must also be submitted to the Principal's Representative and the Independent Certifier.*

(c) *Each Detailed Site Investigation:*

(i) *must*

(A) *investigate areas of proposed excavation or disturbance;*

(B) *investigate land within the Construction Site or Extra Land surroundingthe areas of proposed excavation or disturbance with respect to the potential migration of Contamination via groundwater, ground gas, vapour and odour into the areas of excavation or disturbance; and*

(C) *characterise risks to the construction, operation and maintenance of Sydney Metro West and its infrastructure from Contamination,*

(ii) *be prepared in accordance with Law, Good Industry Practice, the Planning Approvals, all guidelines made or approved by the EPA and any other requirements of this deed;*

(iii) *be reviewed and approved by a Certified Contaminated Land Consultant; and*

(iv) *characterise the risk of Contamination migrating from the Construction Site as a result of the Tunneling Contractor's Activities;*

(d) *In addition to the requirements set out in clause 12.19(c), each Detailed Site Investigation performed within an Area of Contamination Concern must:*

(i) *To be reviewed and endorsed by an Accredited Site Auditor; and*

(ii) *Be accompanied by an Interim Site Audit Advice prepared by the Accredited Site Auditor when submitted to the Principal's Representative and the Independent Certifier in accordance with clause 12.19(a).*

(e) *In addition to the requirements set out in clauses 12.19(c) and 12.19(d), each Detailed Site Investigation performed within a Key Contaminated Area must in accordance with the relevant EPA guidelines:*

(i) *determine and delineate the lateral and vertical extent of Contamination within each Key Contaminated Area;*

(ii) *include in-situ classification of Solid Waste at sampling densities not less than that specified within the NEPM (2013) and the Industrial Waste Resources Guidelines (7), Sampling and Analysis: Soil Sampling (EPA Victoria 2010), except for Virgin Excavated Natural Material (VENM) and Excavated Natural Material (ENM) which are to be classified in accordance with the requirements of the Protection of the Environment Operations Act 1997 (NSW);*

(iii) *classify the Solid Waste in accordance with the Waste Classification Guidelinesusing a statistical approach where relevant;*

(iv) *be suitably detailed so as to inform the development of the Remediation Action Plan, any Remediation Cost Estimate and any Agreed Remediation Scope and to characterise contamination risk to the construction, operation and maintenance of Sydney Metro West (including but not limited to soil, groundwater, ground gas, vapour and odour risks arising from Contamination within the area of proposed excavation or disturbance or migrating into the area of proposed excavation or disturbance);*

It is noted that Contamination is defined in the Deed as: The presence in, on or under land or water or any other aspect of the Environment of:

a) a substance (whether occurring naturally or otherwise) which is at a concentration above at which the substance is normally present in, on or under land or water or any other aspect of the Environment in the same locality, being a presence that presents a risk of harm to human health or any aspect of the environment; or

b) any natural or artificial substance whether solid, liquid or gas (alone or in combination with any other substance) which is toxic, flammable or otherwise capable of causing harm to humans or the environment,

but excluding any Hazardous Material.

ERM notes that this definition of contamination differs from the definition within the Contaminated Land Management Act 1997 (CLM Act).

1.4 Scope of Works

The scope of works undertaken in order to meet the objectives included the following tasks:

- Project preliminaries including preparation of a site-specific Health and Safety Plan (HASP) and completion of subsurface utility clearance requirements;
- Review of background information relating to the Site, including:
  - Previous investigations relating to contamination;

  - The NSW Environment Protection Authority (EPA) Contaminated Land Register;
  - The NSW EPA Record of notices;
  - Historical aerial photographs and land uses;
  - Groundwater bore information;
  - Relevant government and other publically available databases;
  - Published soil, geology and topographic maps;
- ERMs intrusive works included:
  - Excavation and collection of samples from 13 borehole locations outside the Station Box Area and 12 locations inside the Station Box Area;
  - Installation of 1 groundwater well and monitoring at three existing groundwater wells;
- ADE's intrusive works, involving excavation and collection of samples from 11 borehole locations (10 outside and one within the Station Box Area), and three test-pits outside the Station Box Area;
- Laboratory analysis of soil and water samples for relevant contaminants of potential concern (COPC); and
- Preparation of a report summarising the information available from previous investigations, results of ERM's intrusive investigation, and asbestos results from ADE's intrusive investigation.

This report has been prepared in general accordance with the applicable guidelines made or approved under S. 105 of the *Contaminated Land Management Act* (1997), including (but not limited to) relevant sections of the National Environment Protection (Assessment of Site Contamination) Measure 1999 (ASC NEPM) (NEPC, 2013) and the Contaminated Land Guidelines: Consultants reporting on contaminated land (NSW EPA, 2020).

2. SITE SETTING

2.1 Site Description and Identification

The Site is located at the intersection of Parramatta Road and Burwood Road. The majority of the Site lies on the North East corner of this intersection and covers multiple residential and commercial properties. Additionally there is a small section of the Site that is located on the South East side of this intersection that covers 6 properties. Site identification details are summarised in Table 2-1. **Figure 1** at the rear of the report presents the Site Location and Layout.

Table 2-1: Site Identification

ITEM	DESCRIPTION
Site Name	Burwood Construction Site
Site Address	Corner of Parramatta and Burwood Road, Burwood & Concord, NSW
Property Identification	■ Lot 21 DP10928 ■ Lot 19 DP10928 ■ Lot C DP340812 ■ Lot 4 DP333924 ■ Lot 23 DP10928 ■ Lot 24 DP10928 ■ Lot 28 DP10928 ■ Lot 20 DP10928 ■ Lot 15 DP10928 ■ Lot 22 DP10928 ■ Lot B DP344400 ■ Lot 27 DP10928 ■ Lot 25 DP10928 ■ Lot 26 DP10928 ■ Lot 1 DP1027871 ■ Lot 2 SP73535 ■ Lot 100 DP1154740 ■ Lot 1 DP334189 ■ Lot 1 DP329105 ■ Lot 17 DP1217020 ■ Lot 19 DP1217020 ■ Lot 18 DP1217020 ■ Lot 14 DP1217020 ■ Lot 15 DP1217020 ■ Lot 16 DP1217020 ■ Lot 1 DP839095 ■ Lot A DP340812 ■ Lot B DP340812
Site Area	■ Northern portion - 12,900m^2 ■ Southern Portion – 1,400m^2 ■ Total Approximate Site Area – 14,300m^2 (1.4 Ha)
Local Government Area	■ City of Canada Bay Council (north of Parramatta Road) ■ Burwood Council (south of Parramatta Road)
Environmental Plan	Canada Bay Local Environmental Plan 2013 Burwood Local Environmental Plan 2012
Current Land Use	Residential properties with mixed business and commercial properties along Parramatta Road

The Site is an irregular shape and is divided into two portions. A larger portion on the north side of Parramatta road, and a smaller rectangular portion on the south side of Parramatta Road. Within these portions the Site is split into two sections. The broader Site area will be used as a construction support zone during the station construction and the Station Box Area/ Station Access Excavation Area where spoil will be excavated for the construction of the Burwood Metro Station and the access point south of Parramatta Road.

2.2 Environmental Setting

The following subsections provide a brief overview of the environmental conditions surrounding and underlying the Site derived from previous investigations and review of available mapping.

2.2.1 Surrounding Land Use

The Site is located in an area primarily used for commercial/industrial land uses along Parramatta road with general residential housing located in the northern portion of the Site.

Based on a desktop review of aerial photographs, previous reports and publically available information, the surrounding land uses to the Site include the following:

- North –Medium density residential housing with a Service station located approximately 30m North West of the Site, with residential housing and sports playing fields further north;
- East – Concord Oval with residential and mixed commercial businesses beyond;
- South – Mixed use following Burwood road, with low density residential properties; and
- West – mixed business and medium density residential housing, with an aged care centre and school beyond.

2.2.2 Topography and Hydrology

The previous investigation of the Site by Jacobs (2020) indicated that the Site has an easterly decline. ERM observed that the Site gently sloped towards the South East. The northern portion of the Site lies at an elevation of approximately 20 m Australian Height Datum (AHD) falling to the south east of the Site with an elevation of approximately 9 m AHD. Based on visual observations of the surface, this appeared to follow the natural landform with no significant filling associated with previous land use expected to be present across the Site. The majority of the Site is overlain with concrete with the exception of the front and rear gardens of the residential properties and garden beds within the commercial properties.

Surface water is expected to move across the Site until it enters pit and pipe drainage infrastructure and discharges into the Parramatta River which lies approximately 1.2 km to the north east of the Site.

2.2.3 Geology and Soils

A review of the Geological Survey of NSW 1:100 000 geological map indicates that the geology underlying the Site consists of Wianamatta Group Ashfield Shales, which are described as consisting of black to dark-grey shale and laminite.

A review of the NSW DPIE eSPADE tool (eSPADE v2.1 (nsw.gov.au)) indicated that the Site is underlain by the Blacktown (bt) residual soil landscape. The Blacktown landscape consists of gently undulating rises on Wianamatta Group shales. Local relief to 30 m, slopes are usually <5%. Broad rounded crests and ridges with gently inclined slopes. Cleared eucalypt woodland and tall open-forest (wet sclerophyll forests). Soils consist of shallow to moderately deep (<100 cm) Red and Brown Podzolic Soils (Dr3.21, Dr3.11, Db2.11) on crests, upper slopes and well-drained areas; deep (150 - 300 cm) Yellow Podzolic Soils and Soloths (Dy2.11, Dy3.11) on lower slopes and in areas of poor drainage.

The Environmental Impact Statement (EIS) (Jacobs, 2020) completed a review of Potential Acid Sulfate Soil (P)ASS risk maps from the former Office of Environment and Heritage (now part of Department of Planning & Environment (DPE)) and found the Site to lie in an area described as "No Risk" in terms of P/ASS. Furthermore, the Burwood Local Environment Plan (LEP) (2012) Acid Sulfate Soils Map indicates that the Site lies within a Class 5 area. Class 5 areas are characterised by being the lowest likelihood of encountering Acid Sulfate Soils (ASS). Visual and olfactory observations of soils during intrusive investigation works did not indicate signs of P/ASS.

2.2.4 Hydrogeology

A search undertaken by LotSearch Pty Ltd indicated that there were no registered groundwater bores located onsite and seven registered groundwater bores identified within a 500 m radius of the Site. These bores were noted to be a mixture of private and other Govt. bores.

No information was available relating to the standing water levels within them. However, standing water levels of four bores located between 676- 712m west of the Site reported standing water levels ranging between 1.54 and 1.61m bgl. Refer to **Appendix G**

Groundwater monitoring wells have been installed on Site and in the area surrounding the Site during previous investigation works by other consultants (Golder Douglas (2018, 2021), as well as GHD (2015) and Pells Sullivan Meynink (PSM, 2015).The Golder Douglas documents were made available for ERM to review, however ERM was not able to obtain the GHD and PSM reports for review. Groundwater levels from each of these reports were, however summarised in the Jacobs Typsa (2022) Hydrogeological Design Report. Groundwater levels recorded at and surrounding the Site ranged from 16.9 m AHD (10.5 m bgl) at SMW_BH712w to -4 m AHD (1.9 m bgl) at SMW_BH046. Groundwater flow direction is inferred to be to the South/South-East. Groundwater elevations - in the southern portion of the Site in particular – are likely to be lower in recent years due to the nearby M4 East tunnel and associated infrastructure. Substaion No. 5 – a drained mined tunnel that connects with the M5 East mainline tunnel is 17 m below the Burwood North Southern Entry Shaft location and partially below the Burwood North Pedestrian Adit location (Jacobs Typsa, 2022). Excavation works on the M5 East were completed in 2018, so the maximum drawdown associated with the M5 East tunnel is considered likely to have already been realised.

ERM installed one additional groundwater monitoring well (BUR_MW108) in the central portion of the Site, to supplement the existing monitoring well network. The scope of this investigation included one round of groundwater monitoring and this was considered to provide sufficient data to inform this DSI. Regular groundwater monitoring for the purposes of informing groundwater management during construction is planned but this is not included in the scope of works covered by this report.

3. DESKTOP INVESTIGATION

3.1 Historical Aerial Photograph Review

Historic aerial photographs were sourced via LotSearch Pty Ltd and are presented in Appendix G of this report.

A summary of the historical aerial photograph review is provided in the table below.

Historical Aerial Date	Description
1930	The Site is observed to be mainly residential properties The surrounding properties to the north and south appear to be residential with the potential for some retail and commercial properties along Parramatta Road to the west of the Site. A large grassed area (Concord Oval) is present to the east of the Site with a small structure to the west of the oval (possibly sporting club facilities). Some vacant land adjacent to the residential houses appears in the western side of the Site along Burwood Road.
1942-1943	Development of two residential structures in the vacant land previously observed on the western side of the Site is now visible, additionally two sheds have been constructed in the backyards of those properties Development of the south eastern property appears to have been completed with a sectioned roof. Development of fencing and the structure on Concord Oval is visible It appears the properties to the south of the Site are now being used as a car sales centre.
1955-1956	A small structure on the south side of Parramatta road has been constructed, in the location of the present day mechanical workshop. No other significant changes from the 1942-1943 image noted.
1961-1965	Clearly visible use of the central property of the Site being used as a car park, most likely associated with the Pine Inn and adjacent commercial businesses. The residential property on the north west corner of Burwood road and Burton Street has been redeveloped into a petrol station.
1970-1978	A house in the central northern part of the Site has been demolished and a driveway established leading out to Burton Street. Minor structural improvements and extensions to warehouses along Parramatta road. No other significant changes to the Site. A new structure has been established on Concord Oval with additional residential development to the north of the Site.
1982-1986	No significant changes to the Site apart from the roof of one property in the south eastern portion of the Site being replaced. . Residential properties to the west of the Site have been demolished and an aged care centre was established in their place. Increased development of Concord oval grandstand and footpath areas.
1991-1994	Warehouse in the central portion of the Site has now been developed into a car wash. No other significant changes on-site. Minor development works in surrounding residential properties, with the installation of pools and tennis courts. Construction of a car park in Concord Oval.
2000-2005	Minor development and improvement works on-site with new roofing and extension of warehouse adjacent to the car wash and Pine Inn, along Parramatta road. Demolition of three residential properties in the north eastern portion of the Site, with the new development of a small apartment block in its place. Re development of properties to the west of the Site along Parramatta road adjacent to the aged care centre.
2011-2016	Construction of shed in property on the south eastern corner of Burwood and Parramatta road intersection within the Site. Minor development in the Reece plumbing warehouse with demolition and extension works. Minor re developments in the surround residential properties.
2021-Present	Solar panels installed on warehouse in the south eastern portion of the Site. No other significant changes to the Site. Major redevelopment works in progress on Concord Oval

3.2 Historical land Use

A review of Historical Business Directories provided by LotSearch indicated the properties located on the Site were historically for motor vehicles services such as radio repair, smash repairs, Hire car and car dealership services. Additionally mixed small commercial and retail businesses such as building and construction equipment hire and material supply, home décor, showrooms and food retail shops were previously located on-site.

Refer to **Appendix G –** LotSearch Report .

3.3 Regulatory Agency Search

Jacobs (2020) conducted a search of records pertaining to Section 58 of the Contaminated Land Management Act 1997 and this revealed two properties within 500 m of the Site. The first property was a service station located at 89 Parramatta Rd, Concord, which is listed as notified however regulation not required. The second property was the Burwood State Transit Authority (STA) Depot (bus depot), located on the corner of Shaftesbury and Parramatta Rd, Burwood with a former notice. Recent searches and Information provided by LotSearch Pty Ltd confirmed these previous findings.

Jacobs (2020) also indicated a search of the NSW EPA Protection of the Environment Operations (POEO) Act 1997 public register did not locate any records of licences, applications, notices, audits, or pollution studies/reduction programs for the Site or immediately surrounding premises.

Furthermore, the following listings were noted within the LotSearch report (Refer to Appendix G)

- No items of identified Local or State Heritage were observed within the Site. There were however multiple items of environmental planning instrument (EPI) heritage items listed within 1 km of the Site. Most notable the Bath Arms Hotel (Item 94) which is located approximately 20 m south west of the Site and Terrace houses (Item 016) located approximately 60 m south of the Site;
- The Site and surrounding areas within a 1 km buffer have not been identified as Bushfire prone land; and
- No native vegetation or Ramsar wetlands are identified to lie within the Site.

4. SUMMARY OF PREVIOUS INVESTIGATIONS

The previous investigation undertaken at the Site or relevant to the Site are listed below.

- Golder-Douglas Partners, *Groundwater Monitoring Report, 00013/11180 Sydney Metro West Geotechnical Investigation*, ref: 1791865-003-R-GWMR-RevA, dated 16 October 2018 (GDP, 2018).
- Golder-Douglas Partners, *00013/11180 Sydney Metro West Groundwater Monitoring Report – Stage 3 Locations*, ref: 1791865-026-R-GWM Stage 3-RevC, dated 12 June 2021 (GDP, June 2021).
- Jacobs (2020) Sydney Metro West Environmental Impact Statement – Westmead to The Bays and Sydney CBD, Ref. IA19980, dated 15 April 2020 (Jacobs EIS, 2020).
- Golder-Douglas Partners (2020) Factual Contamination Assessment Report, 00013/11180 Sydney Metro West Geotechnical Investigation, dated 6 May 2020 (GDP, 2020).
- ERM, Sampling Analysis and Quality Plan, Burwood Station Construction Site, Sydney Metro West: Central Tunnelling Package, Project no: 0628507, dated 18 January 2022 (ERM SAQP, 2022).
- Jacobs Typsa (2022) Sydney Metro West – Central Tunelling Package Burwood North Station Excavation –Design Report, dated 6 April 2022 (Jacobs Typsa, 2022).

4.1 GDP (2018)

GDP installed and sampled three groundwater monitoring wells (SMW_BH044, SMW_BH046s, SMW_BH046w) near the Site as part of a larger groundwater monitoring program across several sites.

Results were screened against relevant human health and ecological criteria. Human health screening criteria was not exceeded, however concentrations of some metals and inorganics in groundwater exceeded the adopted ecological criteria.

4.2 Jacobs EIS (2020).

Jacobs (2020) completed an Environmental Impact Statement (EIS) for the proposed Sydney Metro West project for the stations between Westmead and Sydney CBD this included the Burwood Construction Site. A historical aerial review of the Site indicated that the Site comprised of small scale commercial, retail and industrial land uses since the 1950s, with low density residential in the northern portion of the Site. Land use was reported to remain relatively unchanged except with small structural extensions, modifications and demolitions in the 1980s and 1990s. Key developments in the surrounding areas since the 1950s were noted to be the formalisation of Burwood Road in 1970, the development of Burwood Bus Depot in the 1970s and the development of Concord Oval in the 1980s which included the grandstand and associated landscaping.

The EIS reported overall the soils and groundwater in the vicinity of the construction site have a moderate potential contamination risk associated with current and historical activities. The report indicated 5 potential Areas of Environmental Interest (AEIs):

- AEI 41 – Mechanical Workshop- Leaks and spills from automotive facilities, car dealerships and bus depot
- AEI 42 - Car wash and detailing – Chemical and wax use
- AEI 43 - Former and existing structures – Hazardous building materials within or from on-site buildings / structures, demolition wastes
- AEI 44 - Parramatta Road – vehicle particulate deposition
- AEI 45 - Historical commercial / industrial use within locality – inappropriate chemical storage and use, industrial operations, waste disposal and management etc.

- Sub-station including potential firefighting activities

All potential sources of contamination were assessed as having a moderate risk with the exception of solvents/volatile organic compounds (VOC) and surfactants from AEI 42 in soil and Heavy metals and hydrocarbons in surface soil from AEI 45 which were noted to be very low potential contamination risk.

4.3 GDP (2021)

GDP installed and sampled seven groundwater monitoring wells (SMW_BH0712, SMW_BH713s, SMW_BH713, SMW_BH714s, SMW_BH714, SMW_BH715s and SMW_BH715) at/near the Site as part of a larger groundwater monitoring program across several sites.

Groundwater analytical results were below adopted human health criteria, however concentrations of several metals exceeded the adopted ecological criteria in each of the wells.

Per- and Polyfluoroalkyl Substances (PFAS) were detected at low concentrations at SMW_BH715s and SMW_BH715, however concentrations were below the adopted screening criteria.

4.4 Jacobs Typsa (2022)

This design report provides design information relating to the construction of the retention system for the Burwood North Station Box, Shaft and Passenger Adit. The report includes information relevant to this DSI, in particular, the Contamination Assessment Report and the Hydrogeological Assessment Report, which are provided as Appendix F and Appendix G of the document respectively.

The Contamination Assessment Report included the screening of soil and groundwater results from historical investigations against human health and ecological criteria. There were no exceedances of the human health criteria for soil samples at the Site. There were, however, some exceedances of the ecological criteria for metals in fill within the on-site soil dataset, and one sample exceeded the PFOS ecological screening criteria. Results of ASS field screening and sampling showed two shallow soil samples above ASS action criteria. The groundwater data did not have concentrations of any constituents above the human health criteria. There were several exceedances of the ecological criteria in groundwater samples in both on-and off-site monitoring wells.

The Hydrogeological Assessment Report contained information on the groundwater levels and flow, which was reported to be towards the south. Groundwater inflow and drawdown from the proposed dewatering were also evaluated. The influence of the M5 East tunnel and associated structures on the groundwater levels was discussed in detail.

4.5 Site History Summary

A review of historical information and previous investigations undertaken has indicated that the Site has primarily been used for retail and commercial/industrial purposes including a car wash, and two mechanical workshops, with residential housing in the northern portion of the Site. Minor fill is expected to be encountered across the Site associated with commercial property uses and residential developments, and groundwater is will require treatment of some metals and inorganics prior to discharge to a surface water body.

5. SITE INVESTIGATION

5.1 Data Quality Objectives

ERM prepared a sampling, analysis and quality plan (SAQP) (ERM, 2021) for this investigation to define the type and quality of data required to achieve the project objectives.

The Data Quality Objectives (DQOs) developed and presented in the SAQP (ERM, 2021) using the seven step DQO approach are summarised in the subsections below.

5.1.1 Step 1: State the Problem

The Site is to be assessed for suitability for a land use consistent with the definition of 'Commercial/Industrial' provided in the ASC NEPM. Based on the above the objectives of this investigation are to provide characterisation of the Site in accordance with ASC NEPM and NSW EPA guidance and provide sufficient spatial coverage for confidence that the Site data is representative.

Waste classification is required for spoil to be excavated from the Station Box in accordance with the Waste Classification Guidelines (NSW EPA, 2014). Section 12.19 (e) (ii) of the Deed specifies a sampling density for in-situ classification of no less than Industrial Waste Resources Guidelines (IWRG) 7, Sampling and Analysis: Soil Sampling (EPA Victoria 2009). Virgin Excavated Natural Material (VENM) and Excavated Natural Material (ENM) are to be classified in accordance with the requirements of the NSW Protection of the Environment Operations Act 1997.

The IWRG sampling rate relevant for soil volumes >200 m^3 is 1 per 250 m^3, using 95% UCL average.

The below table outlines the approximate volumes of spoil to be excavated from the Station Box and Station Access Excavation and the calculated sample density achieved from this DSI.

Table 5-1: Fill & Natural Soil Sample Summary

Material Type	Approximate Volume (m3)	No. Primary Chemical Sample collected	IWRG (2009) Table 3 Minimum number of samples 95% UCL average
Fill	3,473	15	14
Natural Soils/ Rock	111,227	29	445

*If the rocks/natural soil is VENM or ENM, IWRG sample density requirements do not need to be met.

5.1.2 Step 2: Identify the Decision

The decisions to be made based on the proposed scope of work and objectives are:

- Do contaminant concentrations in soils comply with the adopted site assessment criteria?
- Do soils pose an unacceptable risk to human health or the environment?
- Is the Site characterisation sufficient for preparation of a Remediation Action Plan (if required)?
- Can the in-situ materials be classified under the Waste Classification Guidelines or a relevant Resource Recovery Order?

5.1.3 Step 3: Identify inputs to the Decision

The inputs required to make the above decisions are as follows:

- Historical information gathered from the review of previous reports;
- Results of the field investigations and laboratory analysis; and
- Relevant legislation and guidelines.

5.1.4 Step 4: Define the Study Boundaries

- Spatial Boundaries – the physical investigation is limited to the area illustrated within Figure 1 and Figure 2 and the maximum depth of 20m bgl within the Station Box and 5m bgl outside of the Station Box.

Refer to **Figure 1** for Site boundaries.

- Temporal Boundaries – Information from previous reports provided by the Client to ERM included Jacobs (2020) along with the data collected by ERM (2021), as such the temporal boundary will comprise the period of these investigations until the issue date of this DSI report.

5.1.5 Step 5: Develop a Decision Rule

The Site will be considered suitable for its intended land use if contaminant concentrations within the assessed media (including the available historical data) comply with the adopted assessment criteria, as determined by the following decision rules being applied to the data:

- If the chemical contaminant concentration is greater than the relevant threshold, the 95 % Upper Confidence Limit (UCL) of the arithmetic mean for each contaminant of concern must comply with the respective assessment criteria;
- The individual chemical contaminant concentration should not exceed the adopted assessment criteria by more than 250 %;
- The standard deviation of individual contaminants should not exceed 50% of the adopted assessment criteria;
- No surface soils should contain any visible signs of asbestos contamination; and
- All asbestos concentrations should comply with the adopted assessment criteria.

Note: Due to the discrete, heterogeneous nature of asbestos contamination, statistical analysis as a decision rule is not appropriate for asbestos.

If any of the above criteria are unfulfilled, the Site will be considered potentially unsuitable for its intended use, and further action (which many include additional assessment and/or remediation) will be required.

Characterisation of the soils to be removed for Sydney Metro station construction for waste classification purposes will be considered adequate if the IWRG sampling rate (1 per 250 m^3, using 95% UCL average) is achieved within fill.

5.1.6 Step 6: Specify the Performance or Acceptance Criteria

A site is assumed to be contaminated until statistically proven otherwise (i.e. analyte concentration and 95 % UCL exceeds the assessment criteria), therefore two types of error are possible:

- Type 1 error (α or false negative), where the Site is assessed to be uncontaminated when it is actually is; and
- Type 2 error (β or false positive), when the Site is assessed to be contaminated though is actually not.

The more severe consequence is with Type 1 errors (α) since the risk of jeopardising human or environmental health outweighs the consequences of additional remediation costs.

The acceptable limits on decision errors applied during the review of the results was based on the Data Quality Indicators (DQIs) of precision, accuracy, representativeness, comparability and completeness outlined in **Table 5-2:**, in accordance with Schedule B (3) - Guidelines on Laboratory Analysis of the ASC NEPM.

The potential for significant decision errors was minimised by:

- Completing a robust Quality Assurance/Quality Control (QA/QC) assessment of the investigation data and application of the probability that 95% of data will satisfy the DQIs, therefore a limit on the decision error would be 5% that a conclusive statement may be incorrect;
- Achieving appropriate sampling and analytical density; and
- Ensuring that the assessment criteria selected was appropriate for current and future land use scenarios.

5.1.7 Step 7: Optimise the Design for Obtaining Data

The DQOs were developed based on a review of existing data, and discussions with the relevant project stakeholders. If information gathered during the assessment process indicated that the objectives of the works are not being met, then this would be communicated to the Client to enable the appropriate steps to be made to rectify the issue before the completion of the project. This was not necessary during project works as information gathered was considered appropriate for the purposes of the investigation.

5.2 Quality Assurance and Quality Control

The following DQIs were developed to assess field and laboratory procedures and statistically verify the validity of the data:

Table 5-2: Data Quality Indicators

Item	Indicator
Date Precision and Accuracy	
Relative Percentage Difference (RPD)	If: >10 x laboratory Limit of Reporting (LOR), then < 30% inorganics and 50% organics (field); <10 x laboratory LOR: Assessed on individual basis (field) >5 x laboratory LOR: 50% (laboratory) <5 x laboratory LOR: No Limit (laboratory)
Laboratory Performance	Based on acceptance criteria of laboratory as specified on certificate of analysis, includes: blank samples, matrix spikes, control samples, and surrogate spike samples. Use of analytical laboratories with adequately trained and experienced testing staff experienced in the analyses undertaken, with appropriate NATA certification.
Fieldwork Performance	Use of trained and qualified field staff; same sampler(s) used for all recoveries. Appropriate sampling methods used, minimising the opportunity for cross-contamination.
Sample Coverage	Representative coverage of potential contaminants, based on site history, site activities and site features.
Data Representativeness	
Sample and Analysis Selection	Representativeness of all contaminants of concern.
Trip Blanks	No detection above LOR
Trip Spikes	Recoverable concentrations of volatiles between 60-140%

Item	Indicator
Rinsate	No detection above LOR
Laboratory Selection	Adequate laboratory internal quality control and quality assurance methods, complying with the ASC NEPM.
Documentation Completeness	
Documentation Review	Review of acquired documented information pertaining to site history
Fieldwork Observations	Preparation of bore logs, sample location plans.
Chain of Custody Records	Laboratory sample receipt information received confirming receipt of samples intact and appropriate chain of custody.
	NATA registered laboratory results certificates provided.
Data Completeness	
Laboratory Requirements	Analysis for all contaminants of concern according to the SAQP.
	Field duplicate sample numbers complying with ASC NEPM.
	Trip spike/trip blank samples prepared and sent with field samples regularly.
Comparability	
Fieldwork Performance	Use of consistent test methods for each sample.
	Using appropriate and consistent techniques for sample recovery.
	Using experienced sampler(s).
Laboratory Performance	Use of NATA accredited laboratories.
	Test methods comparable between primary and secondary laboratory.
	Acceptable RPD's between original samples and field duplicates and inter-laboratory triplicate samples.
	LOR should not exceed the Site Assessment Criteria.

5.3 Investigation Rationale

The Deed requires that the DSI consider Areas of Contamination Concern (ACCs) and also the areas that will be disturbed by the construction activity. **Figure 4** shows both ACCs and disturbance areas for reference, and demonstrates that the ACCs cover the whole Construction Compound. The DSI has appropriately included the whole Construction Compound footprint.

5.3.1 Soil

A total of 39 sampling locations were advanced across the Site in accordance with the NSW EPA Sampling Design Guidelines (1998) for an area of 1.4 hectares (ha) achieving the suggested minimum sampling density.

Waste classification is required for spoil to be excavated from the Station Box in accordance with the Waste Classification Guidelines (NSW EPA, 2014) and Section 12.19 (e) (ii) of the project Deed as outlined in Section 5.1.1.

As part of ERM's investigations, the 25 locations outside of the Station Box area were advanced to provide site characterisation data and spatial coverage of the proposed construction support area. Additionally, the 12 sampling locations within the Station Box were to provide site characterisation data and waste classification data for the proposed excavation and off-site removal of fill and natural materials to be removed as part of the Station Box works. Intrusive works were targeted to reach a depth of up to 5 m bgl outside the Station Box and a maximum of 20 m inside the Station Box.

Additional investigations undertaken by ADE involved advancing 11 boreholes and 3 test pit locations within fill material, with the objective providing vertical and lateral delineation of asbestos previously detected by ERM at two locations. Further to this, additional locations were intended to increase the spatial coverage of asbestos investigation locations.

5.3.2 Groundwater

Groundwater sampling was conducted for the purposes of site characterisation and developing the conceptual site model including evaluation of source-pathway-receptor (SPR) linkages for site users and receptors of groundwater removed during construction.

5.4 Investigation Methodology and Analysis

Fieldwork undertaken by ERM Environmental Scientists was completed between 15 December 2021 and the 18 January 2022 in accordance with the scope of works outlined in Section 1.4 and ERM's standard work procedures and involved sampling at 13 borehole locations outside the Station Box area and 12 locations inside the Station Box Area. Additionally, one groundwater well was installed on-site (BUR_MW108).

Additional soil investigations undertaken by ADE were completed between 24 March and 6 May 2022. This involved progressing a combination of 14 borehole and test pit locations, targeting fill material. While test-pits were proposed at each of these locations, due to space and access constraints, only three test pits were completed in the north-west portion of the Site. ADE's field investigation methodology was outlined to ERM by Thesan Naidoo of ADE (pers.comm, May 2022).

Four groundwater monitoring wells were planned to be sampled by ERM as part of these investigation works, however several of the wells available were dry or destroyed, with two able to be sampled.

5.4.1 Soil Logging

Soil logging undertaken by ERM was conducted by a suitably qualified and experienced environmental scientist in general accordance with AS 1726 and ERM standard field procedures.

Samples were logged, and the following information was recorded in the field: soil/rock type, colour, grain size, sorting, angularity, inclusions, moisture condition, structure, visual signs of contamination (including staining and observations of anthropogenic material including fragments of fibre cement sheeting). Similarly, ADE logged soil fill characteristics, specifically noting whether ACM was observed in the field.

Borehole logs completed by both ERM and ADE are presented in *Appendix B*.

5.4.2 Field Screening

As part of ERM's investigations, at regular intervals within each borehole, including a minimum of 0.5 m intervals in fill and during sampling depths for natural material, soils were placed in a zip lock bag and screened in the field for head space vapours (principally, volatile organic compounds (VOCs) but may also include some volatile inorganic compounds) using a calibrated photo-ionisation detector (PID). The sensor bulb used in the PID had an ionisation potential (IP) of 10.6 eV.

ERM field records showing calibration details are provided in *Appendix C*.

Due to the nature of the COPC (ie. non-volatile asbestos) for ADE's investigation, VOCs were not screened using PIDs.

5.4.3 Soil Sampling

Soil sampling in the 25 ERM locations was undertaken first by a combination of hand auger and high pressure water / vacuum extraction (referred to in the borehole logs as Non Destructive Drilling (NDD) to a depth of 1.5 m. Thereafter, direct push drilling and/or solid fight augering was utilised until hard natural rock was encountered. Deeper bores into rock were advanced using air flush rotary drilling.

Solid flight augering was generally only utilised after hand augering and push tube sampling of the top layers of material.

Where solid flight augering was utilised for sampling, larger clumps of soil were targeted and placed immediately into sample containers in an attempt to minimise the potential loss of volatiles.

The potential for cross contamination during sampling was reduced during NDD by stopping NDD 0.1 m before target sampling depth, and commencing hand augering through to target depth. The hand auger was decontaminated between samples.

Samples from the push tube were selected directly from the cores.

A minimum of two samples per location were selected for analysis (with the exception of locations BUR_BH121 and BUR_BH124, where sample recovery was limited to fill soils), based on field observations and screening. A total of 84 soil samples and 1 potential bonded ACM fragment sample were collected for analysis.

ADE progressed eleven boreholes and three test pits through fill material up to a maximum depth of 0.5 m using a hand-auger and an excavator, respectively. Two samples were collected from each location, at the surface (0-0.2mbgl), and 0.3-0.5mbgl. Based on ERM's investigation, fill material typically extended to 0.8mbgl (and up to 1, and 1.5 mbgl at two of the 24 investigation locations). For this reason, asbestos samples collected at these depths are considered representative of fill material across the Site.

Due to the nature of sampling using a hand auger, a sufficient volume of soil allowing asbestos sieving (10L) was only available at the three test-pit locations. Asbestos sieving undertaken in the field was completed in accordance with NEPM (2013) guidelines. 500 mL soil samples were collected for analytical asbestos analysis at 12 locations, and approximately 50 mL samples collected at two locations.

5.4.4 Groundwater Sampling

As part of ERM's investigations, a total of three groundwater wells were gauged during this investigation, however pre-existing groundwater well RY718_BH1333 was noted to be dry. Hence, a total of two groundwater samples were collected as part of this investigation. One groundwater monitoring well was installed during this investigation (BUR_MW108) in the central portion of the Site. Additionally, one existing groundwater well located in the southern portion of the Site (AF_BH28, but labelled RY718_BH1331 during sampling) was also sampled.

Prior to sampling, the standing water levels (SWL) were gauged using an interface meter from the top of well casing. In addition, the total depth of the groundwater monitoring well was recorded. Field parameters including pH, electrical conductivity, dissolved oxygen and oxidation/reduction potential were measured prior to sampling using a portable water quality meter. Calibration certificates for field testing equipment is provided in *Appendix C*.

Sampling of the groundwater wells was undertaken via bladder pump micro purge methods employing compressed air to lift groundwater and avoid volatile loss. Samples for metals analysis were field filtered using a 0.45 µm pore size filter.

ERM was not made aware of several other pre-existing groundwater wells at the Site at the time of the DSI, but the historical groundwater data from these wells has been included in the DSI to further inform the conceptual site model.

5.4.5 Sample Handling

All sampling was conducted using disposable nitrile gloves and samples were packed into appropriately labelled, appropriate laboratory supplied containers for the analysis required.

Samples were collected with minimal headspace remaining in the jar/bottle to reduce the potential for loss of volatile COPCs during sampling and transport.

Samples were transferred to the laboratory and analysed under chain of custody control.

5.4.6 Decontamination

ERMs investigation involved decontamination of the down hole drilling equipment (casing, augers and sampler) was conducted prior to drilling the first hole and between locations by initially spraying with water using a high pressure hose, then applying Liquinox solution, and then rinsing using the high pressure hose.

5.5 Laboratory Analytical Strategy

For ERM's DSI, soil and groundwater samples, including intra-laboratory duplicate samples, were analysed by ALS laboratory. Inter-laboratory samples were analysed at Eurofins. Both laboratories are NATA accredited for the analyses performed.

Selected soil samples were submitted for laboratory analysis for TRH, BTEXN, metals, PAH and PCBs. At least one sample from each borehole was also selected to be analysed for OC and OP pesticides, VOCs and PFAS. A total of 39 primary samples were analysed for PFAS.

Groundwater samples were analysed for a broad suite of analytes including TRH, BTEXN, PAHs, VOCs, Heavy metals plus iron, PFAS, Ammonia, nitrate, total N, total P, Major anions, major cations and Total dissolved solids.

Additional soil samples were collected in the shallow fill (top metre) for in-situ waste classification purposes. These results have been included in this DSI report to enhance the understanding of site conditions.

ADE submitted soil samples to Sydney Laboratory Services (SLS) for asbestos identification. Laboratory certificates indicate the adopted method is consistent with "*National Environment Protection (Assessment of site contamination) Measure, Schedule B1*" and "*The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009*", however is not NATA accredited for this analysis.

ADE indicated that small sample volumes (50 ml) submitted for soils sampled at two locations (SES-SEA1 and SES-SEA3) were analysed for asbestos presence/absence.

Additional soil samples included in ADE laboratory report – SLS Reference: 2202125, were analysed as part of ADE's waste classification assessment and were not intended for delineation purposes. ERM note that asbestos was not detected in this additional waste classification sample set.

5.6 Quality Assurance / Quality Control

In the course of this investigation a number of QA/QC measures were implemented as part of ERM's investigation to check the accuracy, precision and overall validity of the results obtained. These include:

- Collection of ten duplicate and ten triplicate soil samples for assessment of intra- and inter-laboratory precision respectively. Intra-laboratory duplicate samples are prefaced with "D0X" and inter-laboratory duplicate samples are prefaced with "T0X" within the data summary tables;
- Collection of three trip blanks and three trip spikes during soil investigations to assess the potential for loss or transfer of volatiles during sample storage and transport;
- No groundwater duplicate samples were collected from Burwood as groundwater sampling was undertaken as part of a wider groundwater monitoring program for the Sydney Metro project. Duplicate samples were collected as part of this monitoring program and have been included the QAQC assessment provided in *Appendix D*.;
- Internal laboratory QA/QC procedures:
  - method blanks;
  - laboratory duplicates;
  - laboratory control samples;

- matrix spike samples;
- surrogate recovery samples; and
- analysis holding time reviews.

Calibration certificates for field instruments are presented in *Appendix C*, and laboratory QA/QC procedures and results are presented in *Appendix D*.

QA/QC samples were not collected as part of ADEs additional investigation, and due to the typically heterogeneous nature of asbestos contamination, is not considered warranted.

5.7 SAQP Non- Conformances

5.7.1 Fewer groundwater wells sampled

Fewer groundwater wells were sampled than planned as monitoring well SMW_BH046 was damaged, SMW_BH044 was inaccessible and RY718_BH1333 was dry.

The groundwater quality information from the two wells that were sampled is sufficient to use alongside historical groundwater results from the Site to characterise the groundwater quality at the Site for the purpose of this DSI, and so the primary objectives are considered to have been met.

5.7.2 Fewer asbestos test pits

Additional characterisation of asbestos in fill was intended to be undertaken by ADE using test-pitting methods. Due to access constraints, test pits was limited to three of the 14 sample locations. While sampling using a 150mm hand-auger does not provide clear visibility of potential asbestos impacts, additional samples submitted for analytical analysis provides further confidence of the presence or absence of asbestos in fill across the Site.

5.7.3 Analytical frequency

Analytical frequency was generally in accordance with the SAQP, however during the initial phase investigations (undertaken by ERM) asbestos samples were only able to be collected from 21 out of the 25 locations due to limited recovery of soil. Of the four locations where asbestos analysis was not conducted, three of these locations (BUR_BH108, BUR_BH110 and BUR_BH111) were located within the Station Box. As materials from these locations are proposed to be removed from Site, the characterisation of these materials is not considered to detract from assessment of the future land use suitability of the Site or impose significant limitations on the assessment of asbestos in these areas as materials will be assessed further during the waste classification process. One location (BUR_BH120) was located outside the Station Box. Materials from this location were not visually observed to contain signs of asbestos. Samples were analysed for asbestos in all adjacent locations.

Further asbestos characterisations undertaken by ADE at 14 sample locations (targeting two ERM locations, in addition to another six unique locations) is intended to reduce data gaps identified by the initial ERM investigation.

Based on the above, analytical data obtained by both ERM and ADE as part of the DSI is considered sufficient for site characterisation.

6. SITE ASSESSMENT CRITERIA

6.1 Overview

This detailed investigation was undertaken with reference to the following publications:

- National Environment Protection (Assessment of Site Contamination) Measure 1999 (ASC NEPM) (NEPC (2013);
- Health screening levels for petroleum hydrocarbons in soil and groundwater. Summary, CRC CARE Technical Report no. 10 (CRC Care, 2010);
- Technical Report no. 39, Risk-based management and remediation guidance for benzo(a)pyrene, Cooperative Research Centre for Contamination Assessment and Remediation of the Environment ('The Technical Report', CRC CARE, 2017);
- PFAS National Environmental Management Plan Version 2.0 (HEPA, 2020);
- Guidelines for Managing Risks in Recreational Water (NRHMC, 2008); and
- Australian and New Zealand guidelines for fresh and marine water quality (ANZG 2018).

6.2 Adopted Screening Levels

6.2.1 Soils

Based on the proposed future land use, ERM will be assessing the soil data against the 'Commercial/Industrial' land use criteria as defined in the ASC NEPM. Due to the observed underlying clays across the Site, the screening levels for clay (fine) soils have been adopted. Additionally, since future green space planting above existing fill is potentially possible, the ecological investigation and screening levels for commercial/industrial land use (fine soils) will be adopted.

Screening levels applicable to the assessment of soils include:

- ASC NEPM (2013) Health Investigation Level (HIL)
  - HIL D – Commercial / Industrial
- ASC NEPM (2013) Soil Health Screening Level (HSL)
  - HSL D – Commercial / Industrial
- ASC NEPM (2013) Management Limits
  - Commercial Industrial
- ASC NEPM (2013) Ecological Investigation Levels
  - EIL Commercial / Industrial (site-specific calculated from representative natural material sample (BUR_BH123_1.0) with the most conservative value adopted for Cr III).
  - ESL Commercial / Industrial (fine) (except for benzo(a)pyrene criteria, for which a high reliability guidance value has been developed (CRC Care, 2017)
- CRC CARE (2011) Soil Health Screening Levels for Direct Contact
  - HSL-D – Commercial / Industrial
- CRC CARE (2011) Soil Health Screening Level (HSL)
  - Intrusive maintenance worker (shallow trench)
- HEPA (2020) NEMP Human health investigation levels for soil
  - Industrial/commercial (HIL-D)
- HEPA (2020) NEMP Ecological guideline values for soil
  - Ecological direct exposure
  - Ecological indirect exposure

6.2.2 Aesthetic Criteria

Although no specific numeric aesthetic guideline values are provided, the ASC NEPM requires the consideration of aesthetic issues (as a result of contamination) arising from soils within the Site. The following assessment criteria have been used when considering soil aesthetics:

- No highly malodourous soils, taking into consideration the natural state of the soil at the Site; and
- No staining or discolouration in soils, taking into consideration the natural state of the soil.

6.2.3 Groundwater

ERM conducted groundwater sampling on 20 and 21 January 2022, and analytical data is screened against the following in this DSI:

- ANZG (2018) Fresh Water
  - Slightly to moderately disturbed ecosystems
- NHMRC (2008) Recommended Recreational Guidelines
  - Aesthetic
  - Health
- NEPM (1999) Groundwater HSLs for Vapour Intrusion
  - HSL D Commercial/Industrial (Clay)
- HEPA (2020) NEMP Ecological guideline values for water

6.2.4 Soil Vapour

No significant potential sources of soil vapour were identified during soil or groundwater investigation works at the Site. As such soil vapour sampling was not considered necessary for the purpose of this investigation.

7. RESULTS

Site works conducted in accordance with the methodology stated in *Section 5* was undertaken by ERM between 16 December 2021 and 21 January 2022, and by ADE between 24 March and 6 May 2022.

The locations of investigation locations are presented in *Figure 2*. Detailed descriptions of the soils observed during fieldworks are presented on the borehole logs in *Appendix B*.

7.1 Subsurface Conditions and Field Screening

The fill material encountered near the surface was variable but included coarse and fine silty clays with gravel inclusions, crushed sandstone, basalt 'road base' gravels and minor foreign materials such as brick, plastic and glass.

Brown/red/orange and grey silty clays and clays were encountered below fill material with underlying shales and siltstone observed at depth.

Field headspace screening of soils sampled by ERM ranged from 0.1 ppm to 41.2 ppm. All PID measurements were calibrated to an isobutylene standard and are presented in full on the borelogs provided in *Appendix B*.

7.2 Soil Laboratory Results

Analytical results for soil samples are summarised below:

- Asbestos fines were not detected in any of the samples submitted for analysis. Bonded Asbestos containing material (ACM) fragments were visually identified and confirmed by the laboratory to be asbestos in sample BUR_BH116_0.2 ACM. Additionally sample BUR_BH123_0.3 reported asbestos cement debris within the soil sample. Further investigations undertaken by ADE showed that ACM was not visually identified in the field. ACM was not detected in soil samples analysed in the laboratory from the four delineation samples around BUR_BH116, nor BUR_BH123.
- PFAS was detected in 1 sample within fill soils, however this were found to be compliant with the relevant NEMP (2020) ecological (direct and indirect) and HIL D criteria.
- Trace OCPs and OPPs were detected in four samples submitted for analysis, however these were reported to be compliant with the adopted HIL D criteria.
- PCBs were detected in one sample (BUR_BH110_0.2), however this was reported below the HIL D criteria.
- BTEX were not detected in any of the samples submitted for analysis.
- Total Recoverable Hydrocarbons were detected in 23 samples analysed, contained hydrocarbons in the C10-C40 range. Detected concentrations were below the relevant screening criteria for all samples.
- PAHs were detected at numerous locations within fill materials across the Site. Benzo(a)pyrene results were below the high reliability ecological screening criteria used (CRC Care, 2017). Carcinogenic PAHs as benzo(a)pyrene TEQ were compliant with the human health screening criteria.
- Chlorinated solvents or VOCs were not detected in any samples submitted for analysis.
- One soil sample exceeded the adopted human health criteria for Lead (BUR_BH115_0.5). The 95% UCL of the mean was calculated to be below the adopted criteria for Lead. This sample was also from the area south of Parramatta Rd to be excavated for station access, so will be removed from the Site during the Sydney Metro construction activities.

- Several samples exceeded ecological screening criteria for metals (copper, lead or zinc). Calculation of the 95% UCL for these results were below the adopted EIL criteria.
- All other samples reported metals concentrations compliant with the adopted screening criteria.

Soil analytical results are presented in the summary tables at the rear of this report and laboratory certificates are presented in *Appendix E*. UCL calculations were processed in PRO UCL and results are provided in *Appendix F*.

Jacobs Typsa (2022) summarised historical soil data and these summary tables are presented in *Appendix I*. Results of the historical data was generally consistent with the ERM/ADE data. Human health and ecological criteria were not exceeded with the exception of one sample that exceeded the EIL for nickel and another sample that exceeded the EIL for PFOS. Both samples were from the same borehole location, and the particular location will be excavated for the Station Box. Asbestos was not observed in the historical sampling.

As noted in the Jacobs/Typsa report, acid sulfate soil action criteria was equalled in one sample and exceeded in another. The field parameters for the sample that exceeded the action criteria were, however, inconsistent with ASS/PASS.

Soil results were screened against relevant waste classification criteria separately in the Waste Classification Report, provided as Appendix J.

7.3 Groundwater Gauging and Field Parameters

Groundwater gauging and sampling was completed at the Site on the 20 and 21 January 2022. A total of three groundwater wells on-site were gauged during this investigation. However, well RY718_BH1333 was observed to be dry. As such, no field parameters or sampling was able to be conducted from this well. In February, additional groundwater gauging was conducted. The gauging results and summary of field parameters measured for the groundwater monitoring event are summarised below:

Table 7-1: Summary of Groundwater Field Parameters

Date	Well ID	SWL[1] (mBTOC)[2]	SWL (m AHD)[3]	Depth to Bottom of well (m BTOC)	pH	Temp (^{0}C)	Conductivity (mS/cm)	DO (mg/L)	Redox (mV)
January Data									
20/01/2022	BUR_MW108	5.315	6.685[3]	18.77	6.9	21.5	8.53	4.33	30.8
21/01/2022	AF_BH28 (incorrectly labelled and reported as RY718_BH1331)	13.825	-0.425	20.397	10.6	22.4	2.549	1.26	93.0
20/01/2022	RY718_BH1333	-	-	7.806	-	-	-	-	-
February Data									
21/2/2022	SMW_BH44	7.734	14.866	32.550	-	-	-	-	-
17/2/2022	SMW_BH046s	1.552	4.918	2.873	-	-	-	-	-

[1] Standing Water Level (SWL)

[2] meters below top of casing (mBTOC)

[3] ground elevation of nearby SWM_BH015 used to calculate groundwater elevation

7.4 Groundwater Laboratory Results

Groundwater laboratory results for the two groundwater wells sampled (BUR_MW108 and AF_BH28 (reported incorrectly as RY718_BH1331)) are summarised in **Tables 2a-2d**. One sample (BUR_MW108) reported a trace detection of 6:2 Fluorotelomer Sulfonate. All other samples reported no detections of PFAS.

Minor detections of TRH ranging between C10-C40 were reported in location AF_BH28 (RY718_BH1331). There were no reported detections of SVOCs, VOCs, pesticides and PAHs. Concentrations of metals (cadmium, copper, nickel and zinc) exceeded the adopted ecological criteria at location BUR_MW108, with only a minor copper exceedance reported AF_BH28 (RY718_BH1331). Nitrogen and phosphorous exceeded ecological criteria in both groundwater well samples. All other analytes were found to be compliant with the screening criteria

Jacobs Typsa (2022) summarised historical soil data and these summary tables are presented in *Appendix I*. Results of the historical data was generally consistent with the ERM/ADE data. Human health criteria were not exceeded, however some metals and inorganics, and one VOC compound exceeded the ecological screening criteria. PFAS compounds were detected in the sample from SWM_BH015 and

8. DATA QUALITY EVALUATION

8.1 ERM 2021 Investigation (including ADE investigation data)

A QA/QC assessment detailing field procedures, laboratory methods and an analysis of QA/QC sampling results from the investigation is provided in *Appendix D*.

Overall, the sample data collected by ERM and ADE is considered to be of a suitable standard to be used in this report.

8.2 Previous Investigations

As the conceptual site model presented in this report will incorporate historical data from previous investigations, the quality assurance and quality assurance evaluations within the previous investigation reports were reviewed to ensure any unsuitable data is excluded from the conceptual site model evaluation. Items to note are provided in the table below.

Table 8-1: Summary of Previous Investigations

Investigation Report	Summary of Quality Assurance/ Quality Control
Golder-Douglas (2018) Groundwater Monitoring Report – Sydney Metro West Geotechnical Investigation	Golder Douglas note that although variances and non-conformances with acceptable criteria were noted, that these are considered unlikely to affect the validity of the data. The precision of most duplicates of organic compounds was acceptable and variability in PAH and TRH attributed to variance in laboratory handling, extraction and measurement procedures. SMW_BH044, SMW_BH046 and SMW_BH046s data is relevant to this DSI
Golder-Douglas (June 2021) Sydney Metro West- Groundwater Monitoring Report – Stage 3 Locations –	Golder Douglas note that although variances and non-conformances with acceptable criteria were noted, that these are considered unlikely to affect the validity of the data. The quality of the data was concluded to be acceptable for environmental interpretive purposes. ERM's review concurs with this assessment. SWM_BH712, SWM_BH713, SWM_BH713s, SWM_BH714, SWM_BH714s, SWM_BH715 and SWM_BH715s data is relevant to this DSI..
Jacobs Typsa (2022) Sydney Olympic Park Excavation –Station Shaft	While no data was collected by Jacobs Typsa, data from historical investigations was summarised. ERM has verified the consolidated data presented (and used in this DSI) against the original data sources for all results except AF_BH28, AF_BH29i, R718_BH1326 R718_BH1331, R718_BH1341, R720_LSJH_TC-BH409, R720_LSJH_TC-BH410, R720_LSJH_TC-BH411 (as ERM does not have a copy of the original data source).

9. CONCEPTUAL SITE MODEL

9.1 Overview

A Conceptual Site Model (CSM) is the qualitative description of plausible mechanisms by which human and/or environmental receptors may be exposed to site contamination. For exposure to be considered possible, some mechanism ('pathway') must exist by which impact from a given source can reach a given receptor. This is classed as a source-pathway-receptor (SPR) linkage.

The following section presents a summary of the potential sources, pathways and receptors applicable to the Site, as well as identifying potential source-pathway-receptor (SPR) linkages, based on the previous investigation by Jacobs (2020). The identification of SPR linkages forms a key part of developing the CSM for the Site.

The potential for SPR linkages to exist has been assessed assuming ongoing commercial / industrial site use in the current site configuration. The assessment is based on ERM's review of previous investigations, the findings of the current investigations and knowledge of the prevailing conditions at the Site.

9.2 Potential Sources of Contamination

Based on the previous investigations supplied to ERM, the known and suspected Areas of Environmental Concern (AECs), along with the Contaminants of Potential Concern (COPC) are summarised in Table 9-1.Table 9-1: AECs and COPCs

Table 9-1: AECs and COPCs

Areas of Environmental Concern	Contaminants of Potential Concern
Mechanical Workshop- Leaks and spills from automotive facilities, car dealerships and bus depot	Heavy metals, hydrocarbons (TRH, BTEX, PAH), asbestos
Car wash and detailing – Chemical and wax use	Solvents (VOC), surfactants, PFAS
Former and existing structures – Hazardous building materials within or from on-site buildings / structures, demolition wastes	Heavy metals, hydrocarbons (TRH, PAH), pesticides, asbestos
Parramatta Road – vehicle particulate deposition	Lead, PAHs, asbestos
Historical commercial / industrial use within locality – inappropriate storage and use, industrial operations, waste disposal and management etc.	Heavy metals, hydrocarbons (TRH, BTEX, PAH), asbestos
Sub-station including potential firefighting activities	Heavy metals, hydrocarbons (TRH, PAH), PCB, PFAS, asbestos

9.3 Nature and Extent of Contamination Present

The environmental media on the Site previously identified as potentially contaminated are:

- soils (fill material and underlying natural soils);
- rock; and
- groundwater.

Jacobs (2020) conducted an EIS which included the Site which assisted in identifying potential AECs on the Site.

The data screened in Tables 1a to 1d include soils from the Station Box. It should be noted that these materials will be excavated and removed from the Site, and will therefore not be directly relevant to the assessment of future site suitability for the intended site use. However, these results have been included to provide spatial coverage and overall site characterisation data, and to allow consideration of potential risks to construction workers.

The data is discussed in the following subsections.

9.3.1 Soil /Rock

Fill materials on the Site have been reported to contain sandstone, concrete, brick, plastic and ACM (asbestos containing material) fragments. Natural soils below the fill consist of Silty clays and clays, with shales underlying the clays.

Of the 97 samples analysed for metals (including intra and inter laboratory duplicates), concentrations exceeded the commercial/industrial ecological criteria and HIL D criteria for Lead in one sample (BUR_BH115_0.5). However, the 95%UCL calculated was below the adopted screening levels. Additionally, 4 samples exceeded the adopted EIL for Copper and 5 samples exceeded the EIL criteria for Zinc. Calculation of the 95% UCL for these results indicated all were compliant with the adopted EIL criteria.

For residual materials outside the Station Box, the 95% UCL for metals was calculated for these locations with results indicating all values were below the adopted site criteria.

Table 9-2: Soil Metals Summary (mg/kg)

Analytes	Cu	Pb	Zn
NEPM (1999) EIL – Comm./Ind. Criteria	**190^**	**1,800**	**610^**
NEPM (1999) HIL D – Comm./Ind. Criteria	**240,000**	**1,500**	**400,000**
No. of Results*	82	82	82
Min. Concentration	<5	5	<5
Max Concentration	207	4380	1180
Standard Dev.*	31	494	167
95% UCL*	37.28	360.9	175.9
No. Guideline exceedances*	4	1	5

**- values in table excludes intra and inter-laboratory duplicates*

^- calculated Site specific EIL see Appendix H

Polycyclic Aromatic Hydrocarbons (PAHs) were detected at numerous locations across the Site in fill materials. Benzo(a)pyrene results were found to be below the high reliability ecological screening criteria used (CRC Care, 2017). Carcinogenic PAHs as benzo(a)pyrene TEQ were not reported to exceeded the human health screening criteria.

Polychlorinated Biphenyls (PCBs) were detected at one sample location (BUR_BH110_0.2) at a concentration below the screening criteria.

Trace pesticides were detected in 3 samples (DDT+DDE+DDD in samples BUR_BH103_0.1, BUR_BH104_0.2 and Chlordane in sample BUR_BH117_0.2). All pesticide results were below the screening criteria.

A minor detection of PFOS was reported in one duplicate sample (T01_20211216, intra laboratory duplicate of sample BUR_BH103_0.1) . All reported concentrations were below human health and ecological criteria.

Bonded asbestos was detected by ERM at two sample locations within the surface fill materials (BUR_BH116_0.2 ACM, and BUR_BH123_0.3). Delineation sampling undertaken by ADE did not identify asbestos in any samples in delineation sample locations surrounding these locations, indicating asbestos contamination within the fill is likely isolated and remediation would be limited to these two hotspots.

9.3.2 Groundwater

Standing water level was measured to be approximately 5.3 m below top of casing (BTOC) (approx.. 6.7m AHD) in the central portion of the Site and 13.8 m (BTOC) (-0.425m AHD) on the south side of Parramatta road. Based on the available data, groundwater flow is to the east and south. The much lower groundwater levels in the south of the Site are consistent with the effects of drawdown from the M5 East tunnel. Field parameters measured during groundwater sampling indicated pH, temperature and redox were observed to be lower in BUR_MW108 than AF_BH28 (reported incorrectly as RY718_BH1331). Conductivity and Dissolved Oxygen (DO) were observed to be lower in well AF_BH28 (RY718_BH1331).

Results from groundwater sampling from the two on-site groundwater wells (AF_BH28 (RY718_BH1331) and BUR_MW108) indicated metals (arsenic, cadmium, copper, nickel and zinc) exceeded the adopted screening criteria at location BUR_MW108, with only a minor arsenic and copper exceedance reported in AF_BH28 (RY718_BH1331). Additionally, concentrations of nitrogen and total phosphorus in both wells exceeded the screening criteria. All other analytes were found to be compliant with the screening criteria.

This is consistent with results from historical groundwater sampling at and surrounding the Site. Human health criteria were not exceeded, however some metals and inorganics, and one VOC compound exceeded the ecological screening criteria.

9.4 Potential Receptors

The potential sensitive receptors for contaminants present at the Site include:

- Present (Central Tunnelling Package and future Sydney Metro construction workforce) and future construction workers (broader site area following completion of the Metro station) on the Site who may potentially be exposed to COPCs through direct contact with impacted soils and groundwater, and/or inhalation of dusts associated with impacted soils;
- General public / passers-by during construction works (dust and odour, potential direct contact with soil via trucks transporting waste spoil if sheeting/wheel washing inadequate);
- Future workers and customers on the finished Sydney Metro West line;
- Future intrusive maintenance workers working in or around the Sydney Metro West station;
- Future users of the areas of the Site that will be developed for use subsequent to Sydney Metro's use of the land as a construction compound;
- Terrestrial ecological receptors on the Site; and
- Treatment plant, groundwater movement, or long term via operational tunnel/station groundwater drainage and discharge).

9.5 Potential Exposure Pathways

The following potential pathways of exposure that may result from impact to soil, groundwater or air are likely relevant to the Site Area:

- Discharge of groundwater to surface water (Parramatta River);
- Direct contact with impacted soil or groundwater; and
- Inhalation of asbestos fibres and/or dust.

9.6 Contamination Migration Potential

The construction works has potential to affect the distribution of contamination, particularly due to dewatering of the Station Box which is likely to result in groundwater flow moving towards the station box. Water pumped from the Station Box during construction will be directed to a water treatment plant, and discharged into a stormwater drain that flows towards Canada Bay within the Parramatta River. The tunnel construction methodology is understood to result in relatively limited groundwater drainage, and the tunnel will be constructed as a tanked structure to minimise impacts on groundwater during operation. The Station Box dewatering is therefore considered to be the most significant mechanism for creating potential migration of contaminated groundwater.

Further, disturbance created by excavation works could create dust, and/or mobilise soil vapours. These potential migration pathways are assessed as follows:

9.6.1 Migration via Dewatering

Groundwater monitoring data indicates groundwater quality exceeds ecological criteria for some metals, however no significant groundwater impact has been identified. The groundwater monitoring network and dataset is considered a sufficient basis to provide adequate groundwater characterisation. Whilst groundwater flow patterns will be affected, it is not considered likely that the change in flow direction will create migration that would result in a change to the risk profile at the Site.

Ongoing groundwater monitoring is recommended (and is understood to be planned) to provide data on changes to groundwater throughout the duration of the works.

9.6.2 Migration via Water Treatment and Discharge

Treatment and discharge of groundwater potentially leads to a more rapid pathway for groundwater to enter the Parramatta River than currently exists via groundwater flow. The groundwater currently has exceedances of ecological criteria for some metals and untreated discharge could increase risk to ecology users of the waterways.

The water treatment plant discharges will be regulated by NSW EPA under an Environmental Protection Licence, and this will provide sufficient regulation and management of potential impacts from discharges. The migration risk is therefore considered adequately managed.

9.6.3 Migration of Vapours and Odours

There was no evidence from the combined investigations for significant sources of either soil vapour or odorous materials. Therefore the risk of creating migration of vapours or odours is considered low.

9.6.4 Mobilisation of Soil Contaminants

The soil contaminants of concern were primarily heavy metals and PAHs and a singular detection of PFAS.

Whilst mobilisation of these contaminants from soil to groundwater is possible, the majority of Site soils are covered with hard stand, thereby preventing the aqueous mobilisation of contaminants in soils. The proposed site will largely be covered in hardstand post completion there by preventing future mobilisation of contaminants. Whilst some mobilisation due to disturbance is possible, no soil contamination likely to be able to result in significant groundwater contamination was encountered.

The PFAS (PFOS only) soil detection did not exceed either the adopted human health or ecological criteria mobilisation to groundwater is not considered likely to have the potential to affect groundwater concentrations.

The creation of dust is potentially significant due to the presence of asbestos detected in fill material. Whilst remediation of identified hotspots is intended to remove limited contamination, management of potential asbestos risk will be necessary, and prudent during the construction phase of works.

9.7 Potentially Complete Source Pathway Receptor Linkages

A Source-Pathway-Receptor (SPR) linkage is considered to be present when a pathway links a source with a receptor. These linkages explain when there may be risks to the receptor, either now or in future.

The assessment of the SPR linkages for the soil and groundwater conditions at the Site is summarised in Table 9-3 below.

Table 9-3: SPR linkage assessment

Source	Pathway / Transport Mechanism	Receptor(s)	SPR linkage status
Soil Conditions	Direct Contact	Current: Sydney Metro construction workforce Future construction workers (broader site area following completion of the Metro station) General public / passers-by (dust only) Future users of development land outside the Sydney Metro land. Future users of Sydney Metro Station	Incomplete: Human health criteria (commercial/industrial) exceeded for Lead at location BUR_BH115_0.5, however the 95%UCL was below the human health screening level.
	Inhalation of vapours		Incomplete for Sydney Metro station use: no volatile soil contaminant sources were identified during the investigation.
	Inhalation of dust		Potentially complete: Bonded ACM fragments were identified in two locations (BUR_BH116_0.2 and BUR_BH123_0.3) Incomplete: Lead (BUR_BH115_0.5) in fill material beneath the two car mechanical workshops. 95% UCLs were below criteria .
	Exposure to flammable material		Incomplete: All TRH Management Limits were found to be compliant with the screening criteria.
	Direct Contact /Ingestion	Terrestrial ecological organisms	Incomplete for Sydney Metro station development. Some EIL exceedances were reported however the 95%UCL was below the ecological screening criteria. Additionally, the Site will be developed to include paved structures and built up garden beds.

Source	Pathway / Transport Mechanism	Receptor(s)	SPR linkage status
Groundwater Conditions	Direct Contact /Ingestion	Current: Sydney Metro construction workforce Future construction workers (broader site area following completion of the Metro station) Future users of the Sydney metro station and development land.	Incomplete: (current and future construction workers). Excavations at the Site may result in workers coming in contact with groundwater however no exceedances of the recreational criteria were observed. Incomplete (future Site users): Future users of either the Sydney Metro station or the development land are not considered potentially exposed to impacted groundwater because there will be no pathway for direct contact.
	Inhalation of vapours		Incomplete: contaminant data does not indicate a vapour in groundwater will present a risk.
	Direct Contact /Ingestion	Aquatic ecological organisms in Parramatta River Terrestrial flora/fauna on Site	Potentially complete for aquatic organisms: Groundwater samples exceeded the ecological screening criteria (for metals), although treatment proposed. Incomplete for terrestrial ecology: not likely to be groundwater dependent
	Direct Contact /Ingestion	Recreational users of Parramatta River	Incomplete: Recreational criteria was not exceeded based on samples collected as part of this investigation.

In summary the potentially viable SPR linkages that require remediation action (further assessment, remediation or management) comprise:

- Potential risks to Sydney Metro and future development construction and intrusive maintenance workforces and general public/passers by via inhalation of dust (potentially including asbestos fibres).

For the Sydney Metro station site including the Station Box and surface access areas, there are considered to be no potential risks to future site users or workforce, since it is understood there will be no exposed soil and no access to groundwater within the developed site. Management will be required for maintenance of the hard cover.

ERM considers that the Site can be made suitable for the Sydney Metro station use, subject to remediation of the two identified asbestos hotspots, and appropriate management and treatment of groundwater.

10. COMPLIANCE WITH THE DEED AND COA

Table 10-1: Assessment of Compliance

Clause [a]	Requirement [b]	Compliance [c]
Deed Requirements		
12.19 (a)	Except for Preliminary Works, the Tunnelling Contractor must perform and submit to the Principal's Representative and the Independent Certifier a Detailed Site Investigation prior to commencing any excavation activities	This DSI has been submitted to and reviewed by Principal's Representative and the Independent Certifier
(i)	at any Area of Contamination Concern; and	The Areas of Contamination Concern at Burwood are shown in Figure 4 and are covered by the scope of the DSI.
(ii)	to the extent otherwise required under the Planning Approvals	No additional requirement: see comment under CoA D71
12.19 (b)	Notwithstanding clause 12.19(a), the Tunnelling Contractor may also perform additional Detailed Site Investigations carried out in other areas of the Construction Site or outside the Construction Site if the Tunnelling Contractor deems it necessary to manage the risks associated with contaminated land and to appropriately plan for Remediation. Any additional Detailed Site Investigation performed in accordance with this clause 12.19(b) must also be submitted to the Principal's Representative and the Independent Certifier.	There is currently no additional DSI planned
12.19 (c)	Each Detailed Site Investigation	
(i)	must	
A	investigate areas of proposed excavation or disturbance	The whole footprint of Burwood Construction Site is covered by the DSI, and therefore all areas of potential excavation or disturbance have been adequately investigated. The planned disturbance/excavation areas are shown in Figure 5.
B	investigate land within the Construction Site or Extra Land surrounding the areas of proposed excavation or disturbance with respect to the potential migration of Contamination via groundwater, ground gas, vapour and odour into the areas of excavation or disturbance; and	The land within Burwood Construction Site has been adequately investigated with respect to potential migration via groundwater, ground gas (not likely to be present), vapour (no significant volatile substances detected, and not considered likely) and odours (no significantly odorous material encountered).
C	characterise risks to the construction, operation and maintenance of Sydney Metro West and its infrastructure from Contamination	Risks are characterised in Section 9, Conceptual Site Model.

Clause [a]	Requirement [b]	Compliance [c]
(ii)	be prepared in accordance with Law, Good Industry Practice, the Planning Approvals, all guidelines made or approved by the EPA and any other requirements of this deed;	This DSI has been prepared in accordance with this requirement.
(iii)	be reviewed and approved by a Certified Contaminated Land Consultant; and	This DSI has been reviewed and approved by a Certified Contaminated Land Consultant (Peter Lavelle, CEnvP SC).
(iv)	characterise the risk of Contamination migrating from the Construction Site as a result of the Tunnelling Contractor's Activities;	See Section 9 Conceptual Site Model.
12.19(d)	In addition to the requirements set out in clause 12.19(c), each Detailed Site Investigation performed within an Area of Contamination Concern must:	
(i)	To be reviewed and endorsed by an Accredited Site Auditor; and	This report is scheduled to be reviewed and endorsed by NSW accredited Site Auditor James Davis of Enviroview.
(ii)	Be accompanied by an Interim Site Audit Advice prepared by the Accredited Site Auditor when submitted to the Principal's Representative and the Independent Certifier in accordance with clause 12.19(a).	The Interim Site Audit Advice is in preparation and will be provided separately.
12.19 (e)	In addition to the requirements set out in clauses 12.19(c) and 12.19(d), each Detailed Site Investigation performed within a Key Contaminated Area must in accordance with the relevant EPA guidelines:	The whole Site was identified as a KCA, this report has been prepared in accordance with the relevant EPA guidelines
(i)	determine and delineate the lateral and vertical extent of Contamination within each Key Contaminated Area;	A total of 39 soil sampling locations have been advanced as part of this investigation, meeting the minimum requirements of the NSW EPA Sampling Design Guidelines (1995) for site characterisation. ACM detected at two locations outside the Station Box have been delineated to within the immediate sample locations. Remediation could be achieved at these two locations via excavation and off-site disposal. Given asbestos has not been detected in boreholes (or three test pits) across the remainder of the Site, implementing an EMP during the construction phase of works would be a prudent approach to mitigate potential risks associated with unexpected finds of asbestos.
(ii)	include in-situ classification of Solid Waste at sampling densities not less than that specified within the NEPM (2013) and the Industrial Waste	Waste classification of soils generated from the excavation of materials was conducted in a

Clause [a]	Requirement [b]	Compliance [c]
	Resources Guidelines (7), Sampling and Analysis: Soil Sampling (EPA Victoria 2010), except for Virgin Excavated Natural Material (VENM) and Excavated Natural Material (ENM) which are to be classified in accordance with the requirements of the Protection of the Environment Operations Act 1997 (NSW);	separate Waste Classification Repoert, provided in Appendix J.
(iii)	classify the Solid Waste in accordance with the Waste Classification Guidelines using a statistical approach where relevant;	
(iv)	be suitably detailed so as to inform the development of the Remediation Action Plan, any Remediation Cost Estimate and any Agreed Remediation Scope and to characterise contamination risk to the construction, operation and maintenance of Sydney Metro West (including but not limited to soil, groundwater, ground gas, vapour and odour risks arising from Contamination within the area of proposed excavation or disturbance or migrating into the area of proposed excavation or disturbance); and	The DSI report has identified the presence of potential contaminants on-site that would require the development of a Remediation Action Plan for appropriate management.
(v)	without limiting the Tunnelling Contractor's obligations under clause 12.20A(h), characterise the risk of any PFAS contained in Solid Wastes in respect of The Bays PFAS Key Contaminated Area.	Not applicable
CoA requirements		
Condition D71	Before commencement of any construction that would result in the disturbance of moderate to high risk contaminated sites as identified in the documents identified in Condition A1 of this schedule, Detailed Site Investigations (for contamination) must be conducted to determine the full nature and extent of the contamination. The Detailed Site Investigation Report(s) and the subsequent report(s), must be prepared, or reviewed and approved, by consultants certified under either the Environment Institute of Australia and New Zealand's Certified Environmental Practitioner (Site Contamination) scheme (CEnvP(SC)) or the Soil Science Australia Certified Professional Soil Scientist Contaminated Site Assessment and Management (CPSS CSAM) scheme. The Detailed Site Investigations must be undertaken in accordance with guidelines made or approved under section 105 of Contaminated Land Management Act 1997 (NSW). The Detailed Site Investigation for Sydney	The low to moderate risk areas referred to are defined by the Environmental Impact Statement for the project. There are five at Burwood Construction Site, comprising AEI 41 (Mechanical Workshop), AEI 42 (Car wash and detailing), AEI 43 (Former and existing structures), AEI 44 (Parramatta Road – vehicle particulate deposition) and AEI 45 (Historical commercial / industrial use within locality). All of which are located within the Construction Site. ERM confirms that the DSI has been prepared in accordance with the specified guidance, and has been reviewed and approved by a CEnvP (SC).

Clause [a]	Requirement [b]	Compliance [c]
	Olympic Park metro construction site must be prepared in consultation with SOPA. *Note: Nothing in this condition prevents the Proponent from preparing individual Remedial Action Plans for separate sites*	
Condition D72	Should remediation be required to make land suitable for the final intended land use, a Remedial Action Plan must be prepared, or reviewed and approved, by consultants certified under either the Environment Institute of Australia and New Zealand's Certified Environmental Practitioner (Site Contamination) scheme (CEnvP(SC)) or the Soil Science Australia Certified Professional Soil Scientist Contaminated Site Assessment and Management (CPSS CSAM) scheme. The Remedial Action Plan must be prepared in accordance with relevant guidelines made or approved by the EPA under section 105 of the Contaminated Land Management Act 1997 (NSW) and must include measures to remediate the contamination at the site to ensure the site will be suitable for the proposed use when the Remedial Action Plan is implemented. The Remedial Action Plan for Sydney Olympic Park metro construction site must be prepared in consultation with SOPA. *Note: Nothing in this condition prevents the Proponent from preparing individual Remedial Action Plans for separate sites*	Remediation in the form of management to prevent exposure to future Site users is required to make the Site suitable for use. Therefore a Remedial Action Plan is required and will be prepared as a separate report.

11. CONCLUSIONS

A total of 39 soil investigation locations were completed across the Site during this DSI; fourteen locations were completed inside the Station Box Area and 25 locations were completed outside the Station Box Area. Groundwater samples were also collected from two monitoring wells on the Site (one existing well and one new well).

Based on the intrusive investigation works completed at the Site, including previous investigations, , the following conclusions have been made relating to soil at the Site:

- The soil data set is considered to provide an appropriate level of site characterisation in accordance with the requirements of guidance made or approved under s105 of the Contaminated Land Management Act 1997.
- Fill materials on the Site were found to contain sandstone, concrete, brick and plastic. ACM fragments were found in two locations. Natural soils below the fill consisted of silty clays and clays, with shales underlying the clays.
- Soil samples exceeded human health criteria and ecological screening criteria for lead in one location (BUR_BH115_0.5). However, the 95% UCL was below criteria for lead. Additionally, three primary samples exceeded the adopted EIL for copper and three primary samples exceeded the EIL criteria for zinc. Calculation of the 95% UCL for these results indicated all were compliant with the adopted EIL criteria.
- PAHs were detected at numerous locations within fill materials across the site. Benzo(a)pyrene results were below the high reliability ecological screening criteria used (CRC Care, 2017). Carcinogenic PAHs as benzo(a)pyrene TEQ were compliant with the human health screening criteria.
- The reported concentrations of PCBs, pesticides, and PFAS concentrations in soil were below the adopted screening criteria.
- Bonded asbestos fragments were identified in two sample locations (BUR_BH116_0.2 ACM and BUR_BH123_0.3) within fill materials, however each detection was subsequently delineated in the north, south, east and westerly directions and both areas were considered to be hotspots.
- No significantly odorous soil was encountered, and odours are not considered likely to present a risk to the construction site.
- Results for VOCs, SVOCs and TRH did not exceed any of the human health or ecological screening criteria adopted. Results indicated that vapour intrusion risk was low and acceptable.

The conclusions relevant to groundwater at the site are as follows:

- The groundwater data is considered to provide adequate characterisation in accordance with the requirements of guidance made or approved under s105 of the Contaminated Land Management Act 1997.
- Concentrations of metals (one or more of arsenic, cadmium, copper, nickel and zinc) and total phosphorus and nitrogen in groundwater exceeded the adopted screening criteria in both groundwater wells sampled.
- There were no other exceedances of the adopted ecological or health screening criteria.
- A trace detection of 6:2 Fluorotelomer Sulfonate was reported in one groundwater sample (BUR_MW108) however there were no exceedances of the adopted ecological or health screening criteria reported.
- Dewatering of the Station Box is likely to result in groundwater flow changing from the inferred current flow towards the Parramatta River to a flow pattern where some of the groundwater below the Site flows towards the Station Box. This is not considered likely to result in any significant change to the overall quality of groundwater beneath the Site, or to the risk profile.

In summary the potentially viable SPR linkages that require remediation action (further assessment, remediation or management) comprise:

- Potential risks to Sydney Metro and future development construction and intrusive maintenance workforces and general public/passers by via inhalation of dust (potentially including asbestos fibres).

Fill material within the identified asbestos hotspot areas could be remediated and disposed off-site and a RAP would need to be developed. Considerations will need to be made for the sustainability of future actions during remediation planning.ERM considers that the level of site characterisation achieved by this DSI is sufficient to provide a basis for a RAP, which should be developed to target asbestos detected in fill at BUR_BH116 and BUR_BH123. Given asbestos has not been detected in boreholes (or three test pits) across the remainder of the site, implementing the processes in the Construction & Environmental Management Plan (CEMP) during the construction phase of works would be prudent in order to mitigate risks associated with unexpected finds of asbestos.

While a RAP is not required for the remainder of the Site to meet CoA D72 within the Conditions of Approval for Sydney Metro West – Concept and Stage 1 Construction (SSI 10038), soil and groundwater within the Station Box must be documented as required by the Sydney Metro West Central Tunnelling Works Design and Construction Deed (“the Deed”); this will be accomplished via a Contaminated Soil Management Plan (CSMP) for the Station Box.

The Burwood North Construction Site RAP is being prepared for the remainder of the Site for the purposes of rendering the Site suitable for use in accordance with the requirements of the Contaminated Land Management Act (1997), guidelines prepared under the Act and the ASC NEPM 1999 (NEPC 2013). Considerations will need to be made for the sustainability of future actions during remediation planning.

ERM considers that the applicable requirements of the Deed and the project CoA have been complied with.

12. REFERENCES

AS 4482.1-2005. Guide to the investigation and sampling of sites with potentially contaminated soil. Part 1: Volatile and Semi-volatile compounds. Standards Australia.

AS 4482.2-1999. Guide to the investigation and sampling of sites with potentially contaminated soil. Part 2: Volatile substances. Standards Australia.

CRC Care (2010) Health screening levels for petroleum hydrocarbons in soil and groundwater. Summary, CRC CARE Technical Report no. 10

CRC Care (2017) Technical Report no. 39. Risk based management and remediation guidance for benzo(a)pyrene.

EPA Victoria (2009) Industrial Waste Resource Guidelines: Soil Sampling. Publication IWRG702.

ERM (2021), Sampling and Analysis Quality Plan (SAQP), Burwood Construction Site

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Golder-Douglas Partners, Groundwater Monitoring Report, 00013/11180 Sydney Metro West Geotechnical Investigation, ref: 1791865-003-R-GWMR-RevA, dated 16 October 2018 (GDP, 2018).

Golder-Douglas Partners, 00013/11180 Sydney Metro West Groundwater Monitoring Report – Stage 3 Locations, ref: 1791865-026-R-GWM Stage 3-RevC, dated 12 June 2021 (GDP, June 2021).

Golder-Douglas Partners (2020) Factual Contamination Assessment Report, 00013/11180 Sydney Metro West Geotechnical Investigation, dated 6 May 2020 (GDP, 2020).

HEPA & DoEE (2020) PFAS National Environmental Management Plan Version 2.0, Heads of EPAs Australia and New Zealand (HEPA) and the Australian Government Department of the Environment and Energy (DoEE).

Jacobs (2020). Sydney Metro West Environmental Impact Statement – Westmead to The Bays and Sydney CBD, Ref. IA19980, dated 15 April 2020.

Jacobs Typsa (2022) Sydney Metro West – Central Tunelling Package Burwood North Station Excavation – Design Report, dated 6 April (Jacobs Typsa, 2022).

NEPC (2013). National Environment Protection (Assessment of Site Contamination) Measure 1999 (ASC NEPM). National Environment Protection Council.

NSW EPA (2020). Contaminated Land Guidelines: Consultants reporting on contaminated land. New South Wales Environment Protection Authority.

FIGURES

SMW_BH044

BURTON STREET

BURWOOD ROAD

Lot 15 DP10928

Lot SP73535

Lot A DP340812

Lot 19 DP10928

Lot 20 DP10928

Lot 21 DP10928

Lot 22 DP10928

Lot 23 DP10928

Lot 24 DP10928

Lot 25 DP10928

Lot 26 DP10928

Lot 27 DP10928

Lot 28 DP10928

Lot B DP340812

Lot B DP344400

Lot C DP340812

Lot 1 DP839095

Lot 1 DP1027871

Lot 100 DP1154740

Lot 4 DP333924

LOFTUS STREET

SMW_BH046_s

SMW_BH046_w

SMW_BH046

PARRAMATTA ROAD

Lot 1 DP334189

Lot 1 DP329105

Lot 14 DP1217020

Lot 15 DP1217020

Lot 16 DP1217020

Lot 17 DP1217020

Lot 18 DP1217020

Lot 19 DP1217020

Legend

- Existing Sample Locations
- Lot Boundary
- Project Area
- Project Area - Substratum only
- Temporary Area

Data Sources:
Design and Overlays : Commercial in Confidence
Imagery : Nearmap Dec 2021

Site Locality

F 1

Drawing No:	0628507m_BW_DSI_G001_R00.mxd		**Corner of Parramatta and Burwood Road, Burwood, NSW**
Date:	03/02/2022	Drawing Size: A3	
Drawn By:	GR	Reviewed By: SW	Client: AFJV

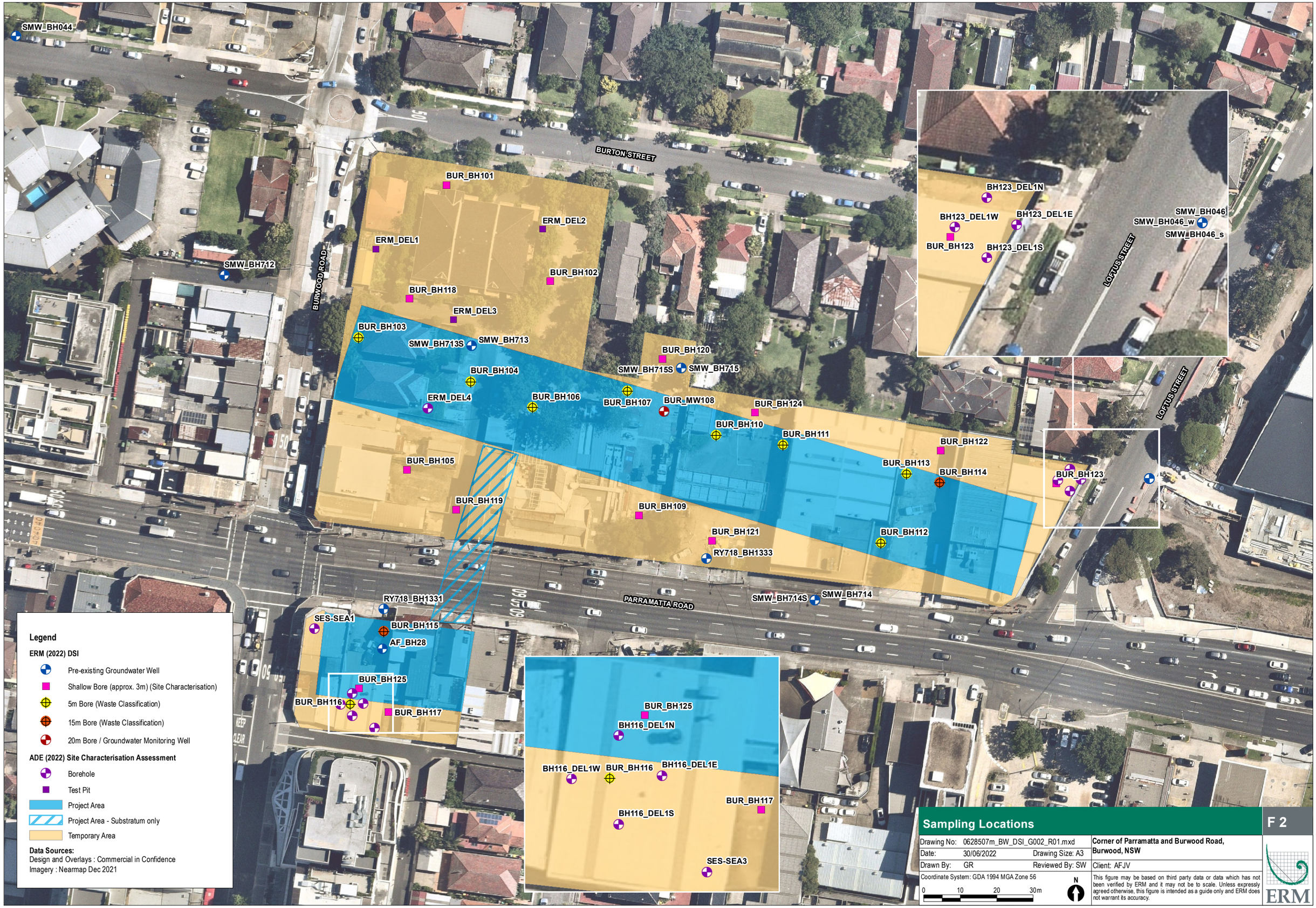
Coordinate System: GDA 1994 MGA Zone 56

0 10 20 30m

N

This figure may be based on third party data or data which has not been verified by ERM and it may not be to scale. Unless expressly agreed otherwise, this figure is intended as a guide only and ERM does not warrant its accuracy.

ERM



Legend

ERM (2022) DSI

- Pre-existing Groundwater Well
- Shallow Bore (approx. 3m) (Site Characterisation)
- 5m Bore (Waste Classification)
- 15m Bore (Waste Classification)
- 20m Bore / Groundwater Monitoring Well

ADE (2022) Site Characterisation Assessment

- Borehole
- Test Pit
- Project Area
- Project Area - Substratum only
- Temporary Area

Data Sources:
Design and Overlays : Commercial in Confidence
Imagery : Nearmap Dec 2021

Sampling Locations

F 2

Drawing No:	0628507m_BW_DSI_G002_R01.mxd		**Corner of Parramatta and Burwood Road, Burwood, NSW**
Date:	30/06/2022	Drawing Size: A3	
Drawn By:	GR	Reviewed By: SW	Client: AFJV

Coordinate System: GDA 1994 MGA Zone 56

0 10 20 30m

N

This figure may be based on third party data or data which has not been verified by ERM and it may not be to scale. Unless expressly agreed otherwise, this figure is intended as a guide only and ERM does not warrant its accuracy.

ERM



Soil Sample Locations with Asbestos Detections

F 3

Drawing No:	0628507m_BW_DSI_G003_R02.mxd		Corner of Parramatta and Burwood Road, Burwood, NSW
Date:	30/06/2022	Drawing Size: A3	
Drawn By:	GR/CB	Reviewed By: SW	Client: AFJV

Coordinate System: GDA 1994 MGA Zone 56

0 10 20 30m

N

This figure may be based on third party data or data which has not been verified by ERM and it may not be to scale. Unless expressly agreed otherwise, this figure is intended as a guide only and ERM does not warrant its accuracy.

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Potential Contamination Risk

F 4

Drawing No:	0628507m_BW_DSI_G005_R00.mxd		**Corner of Parramatta and Burwood Road, Burwood, NSW**
Date:	07/02/2022	Drawing Size: A3	
Drawn By:	CB	Reviewed By: SW	Client: AFJV

Coordinate System: GDA 1994 MGA Zone 56

0 10 20 30m

N

This figure may be based on third party data or data which has not been verified by ERM and it may not be to scale. Unless expressly agreed otherwise, this figure is intended as a guide only and ERM does not warrant its accuracy.

ERM

TABLES

				Asbestos Identification in Soil								EC		Exchangeable Cations						Inorganics			Metals							
				Asbestos Detected	Asbestos (Trace)	Asbestos Type	Synthetic Mineral Fibre	Organic Fibre	Description	APPROVED IDENTIFIER:	Sample weight (dry)	Electrical Conductivity (Saturated Paste)	Electrical Conductivity @ 25°C	Exchangeable Calcium	Exchangeable Magnesium	Exchangeable Potassium	Exchangeable Sodium	Exchangeable Sodium Percent	Moisture Content	Chloride	Moisture Content (dried @ 103°C)	Resistivity (ohm.m)*	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc
				g/kg	Fibres	-	g/kg	g/kg	--	-	g	µS/cm	µS/cm	meq/100g	meq/100g	meq/100g	meq/100g	%	%	mg/kg	%	ohm cm	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.1	5		0.1	0.1			0.01	1	1	0.1	0.1	0.1	0.1	0.1	0.1	10		10	2	0.4	2	5	5	0.1	2	5
CRC Care (2011) Direct Contact HSL D - Comm/Ind																														
CRC Care (2011) Direct Contact Intrusive Maint. Worker																														
CRC Care (2017) Ecological guideline - Commercial and industrial																														
NEPM (1999) EIL - Commercial/Industrial																							160		310[#1]	85[#2]|90[#3]	1800		55[#2]|220[#3]	110[#2]|390[#3]
NEPM (1999) ESL - Commercial/Industrial (fine)																														
NEPM (1999) HIL D - Commercial/Industrial																							3000	900	3600	240000	1500	730	6000	400000
NEPM (1999) HSL D Comm/Indust - Asbestos																														
Field_ID	**LocCode**	**Sample_Depth_Avg**	**Sampled_Date-Time**																											
BUR_BH101_0.1	BUR_BH101	0.1	21/12/2021	No	No	N/A	No	No	Soil sample.	A. SMYLIE	378	-	-	-	-	-	-	-	12.6	-	-	-	<5	<1	17	22	45	<0.1	20	59
BUR_BH101_2.0	BUR_BH101	2	21/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16.5	-	-	-	-	-	-	-	-	-	-	-
BUR_BH102_0.15	BUR_BH102	0.15	16/12/2021	No	No	N/A	No	No	Soil sample.	B.SCHRADER	125	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH102_0.2	BUR_BH102	0.2	16/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	-	-	-	9	<1	15	<5	41	<0.1	<2	16
BUR_BH102_2.0	BUR_BH102	2	16/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.4	-	-	-	<5	<1	5	10	15	<0.1	<2	<5
BUR_BH103_0.1	BUR_BH103	0.1	16/12/2021	No	No	N/A	No	No	Soil sample.	A. SMYLIE	62.9	-	-	-	-	-	-	-	18.3	-	-	-	9	<1	22	127	420	0.3	12	373
D01_20211216	BUR_BH103	0.1	16/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20.3	-	-	-	9	<1	28	97	379	0.2	12	302
T01_20211216	BUR_BH103	0.1	16/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	-	9.8	0.6	22	96	350	0.3	12	280
BUR_BH103_0.7	BUR_BH103	0.7	16/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23.4	-	-	-	9	<1	28	15	25	<0.1	6	105
BUR_BH103_3.0	BUR_BH103	3	16/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.8	-	-	-	<5	<1	6	17	18	<0.1	<2	<5
BUR_BH103_5.0	BUR_BH103	5	16/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.6	-	-	-	5	<1	8	67	25	<0.1	4	26
BUR_BH104_0.2	BUR_BH104	0.2	16/12/2021	No	No	N/A	No	No	Soil sample.	A. SMYLIE	114	-	-	-	-	-	-	-	22.2	-	-	-	10	<1	29	28	99	0.1	6	88
BUR_BH104_1.0	BUR_BH104	1	16/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26.6	-	-	-	5	<1	15	11	21	<0.1	<2	<5
BUR_BH104_4.0	BUR_BH104	4	16/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.6	-	-	-	8	<1	9	42	20	<0.1	16	92
BUR_BH105_0.1	BUR_BH105	0.1	15/12/2021	No	No	N/A	No	No	Soil sample.	A. SMYLIE	134	-	-	-	-	-	-	-	15.3	-	-	-	<5	<1	<2	<5	6	<0.1	<2	80
BUR_BH105_3.0	BUR_BH105	3	15/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-	-	-	15	<1	7	33	44	<0.1	8	31
BUR_BH106_0.2	BUR_BH106	0.2	17/12/2021	No	No	N/A	No	No	Soil sample.	B.SCHRADER	229	-	-	-	-	-	-	-	13.9	-	-	-	5	<1	7	48	223	<0.1	13	146
BUR_BH106_1.0	BUR_BH106	1	17/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26.8	-	-	-	6	<1	11	6	35	<0.1	<2	<5
BUR_BH106_2.0	BUR_BH106	2	17/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.4	-	-	-	8	<1	6	16	22	<0.1	<2	<5
BUR_BH106_3.0	BUR_BH106	3	17/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.9	-	-	-	8	<1	7	30	14	<0.1	2	15
BUR_BH106_4.0	BUR_BH106	4	17/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.6	-	-	-	10	<1	14	52	21	<0.1	9	46
D02_20211217	BUR_BH106	4	17/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	-	-	-	8	<1	11	45	15	<0.1	7	34
TO2-20211217	BUR_BH106	4	17/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.6	-	5.6	<0.4	9.3	28	14	<0.1	5.3	27
BUR_BH106_5.0	BUR_BH106	5	17/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.5	-	-	-	12	<1	12	61	20	<0.1	27	144
BUR_BH107_0.2	BUR_BH107	0.2	17/12/2021	No	No	N/A	No	No	Soil sample.	B.SCHRADER	287	-	-	-	-	-	-	-	16.5	-	-	-	5	<1	6	62	60	<0.1	16	82
BUR_BH107_1.0	BUR_BH107	1	17/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26.6	-	-	-	8	<1	19	5	18	<0.1	<2	8
BUR_BH107_3.0	BUR_BH107	3	17/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.5	-	-	-	12	<1	10	20	10	<0.1	<2	8
D03_20211217	BUR_BH107	3	17/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.1	-	-	-	10	<1	10	24	10	<0.1	3	13
TO3-20211217	BUR_BH107	3	17/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-	8.5	<0.4	11	22	11	<0.1	<5	15
BUR_BH107_5.0	BUR_BH107	5	17/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.4	-	-	-	9	<1	13	69	20	<0.1	43	194
BUR_BH108_0.2	BUR_BH108	0.2	17/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26.2	-	-	-	8	<1	19	53	267	0.2	9	192
D04_20211217	BUR_BH108	0.2	17/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25.7	-	-	-	7	<1	18	54	300	0.3	9	181
TO4-20211217	BUR_BH108	0.2	17/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	-	3.8	<0.4	14	32	150	0.2	8.7	200
BUR_BH108_0.5	BUR_BH108	0.5	17/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27.6	-	-	-	7	<1	19	8	23	<0.1	<2	<5
BUR_BH108_2.0	BUR_BH108	2	17/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.7	-	-	-	<5	<1	4	7	14	<0.1	<2	<5
BUR_BH108_5.8	BUR_BH108	5.8	17/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.1	-	-	-	7	<1	14	46	16	<0.1	37	195
BUR_BH108_11.0	BUR_BH108	11	17/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.3	-	-	-	<5	<1	5	22	12	<0.1	14	50
BUR_BH108_17.0	BUR_BH108	17	17/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.6	-	-	-	9	<1	11	15	16	<0.1	15	61
BUR_BH108_20.0	BUR_BH108	20	17/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.7	-	-	-	8	<1	8	25	18	<0.1	18	79
BUR_BH109_0.2	BUR_BH109	0.2	20/12/2021	No	No	N/A	No	No	Soil sample.	A. SMYLIE	95	-	-	-	-	-	-	-	18.5	-	-	-	<5	<1	5	19	48	<0.1	8	34
BUR_BH109_0.5	BUR_BH109	0.5	20/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23.3	-	-	-	9	<1	26	19	100	0.2	6	68
BUR_BH109_1.0	BUR_BH109	1	20/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23.3	-	-	-	16	<1	16	6	16	<0.1	<2	<5
BUR_BH109_3.0	BUR_BH109	3	20/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.9	-	-	-	12	<1	8	28	12	<0.1	2	13
BUR_BH110_0.2	BUR_BH110	0.2	20/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.5	-	-	-	<5	<1	9	34	131	0.1	9	99
BUR_BH110_0.5	BUR_BH110	0.5	20/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30.5	-	-	-	12	<1	38	10	34	<0.1	8	7
BUR_BH110_1.0	BUR_BH110	1	20/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.9	-	-	-	6	<1	12	8	18	<0.1	<2	<5
BUR_BH110_5.0	BUR_BH110	5	20/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	-	-	-	9	<1	16	44	24	<0.1	56	273
BUR_BH111_0.2	BUR_BH111	0.2	20/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.1	-	-	-	<5	<1	13	34	80	<0.1	8	86
BUR_BH111_0.5	BUR_BH111	0.5	20/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25.2	-	-	-	6	<1	17	59	118	0.3	7	108
D05_20211220	BUR_BH111	0.5	20/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28.4	-	-	-	8	<1	18	23	54	<0.1	5	30
T05-20211220	BUR_BH111	0.5	20/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26	-	8.8	<0.4	25	220	290	0.1	16	170
BUR_BH111_2.0	BUR_BH111	2	20/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.5	-	-	-	<5	<1	4	11	16	<0.1	<2	<5
BUR_BH111_5.0	BUR_BH111	5	20/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.5	-	-	-	11	<1	10	30	18	<0.1	5	28

	Asbestos Identification in Soil								EC		Exchangeable Cations						Inorganics			Metals							
	Asbestos Detected	Asbestos (Trace)	Asbestos Type	Synthetic Mineral Fibre	Organic Fibre	Description	APPROVED IDENTIFIER:	Sample weight (dry)	Electrical Conductivity (Saturated Paste)	Electrical Conductivity @ 25°C	Exchangeable Calcium	Exchangeable Magnesium	Exchangeable Potassium	Exchangeable Sodium	Exchangeable Sodium Percent	Moisture Content	Chloride	Moisture Content (dried @ 103°C)	Resistivity (ohm.m)*	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc
	g/kg	Fibres	-	g/kg	g/kg	--	-	g	µS/cm	µS/cm	meq/100g	meq/100g	meq/100g	meq/100g	%	%	mg/kg	%	ohm cm	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.1	5		0.1	0.1			0.01	1	1	0.1	0.1	0.1	0.1	0.1	0.1	10		10	2	0.4	2	5	5	0.1	2	5
CRC Care (2011) Direct Contact HSL D - Comm/Ind																											
CRC Care (2011) Direct Contact Intrusive Maint. Worker																											
CRC Care (2017) Ecological guideline - Commercial and industrial																											
NEPM (1999) EIL - Commercial/Industrial																				160		310[#1]	85[#2]|90[#3]	1800		55[#2]|220[#3]	110[#2]|390[#3]
NEPM (1999) ESL - Commercial/Industrial (fine)																											
NEPM (1999) HIL D - Commercial/Industrial																				3000	900	3600	240000	1500	730	6000	400000
NEPM (1999) HSL D Comm/Indust - Asbestos																											

Field_ID	LocCode	Sample_Depth_Avg	Sampled_Date-Time																									
BUR_BH112_0.2	BUR_BH112	0.2	21/12/2021	No	No	N/A	No	No	Soil sample.	A. SMYLIE	277	-	-	-	-	-	-	-	13.4	-	-	-	<5	<1	96	27	10	<0.1	95	56
BUR_BH112_0.5	BUR_BH112	0.5	21/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28.8	-	-	-	6	<1	29	11	18	<0.1	<2	<5
BUR_BH112_5.0	BUR_BH112	5	21/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30.5	-	-	-	6	<1	11	27	18	<0.1	7	37
BUR_BH113_0.2	BUR_BH113	0.2	20/12/2021	No	No	N/A	No	No	Soil sample.	A. SMYLIE	323	-	-	-	-	-	-	-	19.4	-	-	-	6	<1	13	9	27	<0.1	<2	22
BUR_BH113_1.0	BUR_BH113	1	20/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19.6	-	-	-	5	<1	8	15	19	<0.1	<2	10
BUR_BH113_2.0	BUR_BH113	2	20/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	-	-	-	11	<1	9	35	18	<0.1	7	41
D06__2021220	BUR_BH113	2	20/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	-	-	-	<5	<1	6	22	14	<0.1	3	20
T06-20211220	BUR_BH113	2	20/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.5	-	11	<0.4	12	37	21	<0.1	8.3	44
BUR_BH113_5.0	BUR_BH113	5	20/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25.8	-	-	-	14	<1	13	56	33	<0.1	36	221
BUR_BH114_0.2	BUR_BH114	0.2	20/12/2021	No	No	N/A	No	No	Soil sample.	A. SMYLIE	147	-	-	-	-	-	-	-	15.8	-	-	-	<5	<1	11	8	19	<0.1	<2	15
BUR_BH114_0.5	BUR_BH114	0.5	20/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.5	-	-	-	<5	<1	8	10	22	<0.1	<2	<5
BUR_BH114_5.0	BUR_BH114	5	20/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.9	-	-	-	11	<1	9	43	26	<0.1	44	190
BUR_BH114_10.0	BUR_BH114	10	20/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.2	-	-	-	9	<1	10	13	16	<0.1	13	58
BUR_BH114_15.0	BUR_BH114	15	20/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.3	-	-	-	<5	<1	9	25	20	<0.1	19	79
BUR_BH115_0.2	BUR_BH115	0.2	21/12/2021	No	No	N/A	No	No	Soil sample.	A. SMYLIE	432	-	-	-	-	-	-	-	12	-	-	-	9	<1	42	76	263	0.1	59	333
BUR_BH115_0.5	BUR_BH115	0.5	21/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24.4	-	-	-	6	<1	20	42	4380	0.1	20	280
BUR_BH115_1.0	BUR_BH115	1	21/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29.3	-	-	-	5	<1	20	13	186	<0.1	3	14
BUR_BH115_5.0	BUR_BH115	5	21/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.2	-	-	-	9	<1	11	56	19	<0.1	26	115
BUR_BH115_10.0	BUR_BH115	10	21/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.6	-	-	-	11	<1	16	34	21	<0.1	21	79
BUR_BH115_15.0	BUR_BH115	15	21/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.5	-	-	-	8	<1	9	40	20	<0.1	24	87
BUR_BH116_0.2	BUR_BH116	0.2	21/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25.5	-	-	-	8	<1	21	132	746	0.4	13	633
BUR_BH116_0.2 ACM	BUR_BH116	0.2	21/12/2021	Yes	N/A	Ch + Am + Cr	No	No	1[#2]	A. SMYLIE	60.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D07_20211221	BUR_BH116	0.2	21/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.2	-	-	-	16	<1	21	215	890	0.4	16	874
T07-20211221	BUR_BH116	0.2	21/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	-	11	3.7	27	120	990	0.4	43	990
BUR_BH116_0.5	BUR_BH116	0.5	21/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22.2	-	-	-	6	<1	18	12	55	<0.1	3	515
BUR_BH116_3.0	BUR_BH116	3	21/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.5	-	-	-	7	<1	8	30	18	<0.1	<2	10
BUR_BH117_0.2	BUR_BH117	0.2	21/12/2021	No	No	N/A	No	No	Soil sample.	A. SMYLIE	518	-	-	-	-	-	-	-	21.2	-	-	-	10	5	22	207	724	0.2	37	1180
D08_20211221	BUR_BH117	0.2	21/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.4	-	-	-	19	8	28	308	1030	0.2	62	2170
T08-20211221	BUR_BH117	0.2	21/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20	-	-	-	-	-	-	-	-	-
BUR_BH117_1.0	BUR_BH117	1	21/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22.5	-	-	-	6	<1	12	10	27	<0.1	<2	<5
BUR_BH117_3.0	BUR_BH117	3	21/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.4	-	-	-	10	<1	8	20	18	<0.1	<2	11
BUR_BH118_0.25	BUR_BH118	0.25	16/12/2021	No	No	N/A	No	No	Soil sample.	A. SMYLIE	74.8	-	-	-	-	-	-	-	18.2	-	-	-	8	<1	28	11	29	<0.1	10	12
BUR_BH118_1.5	BUR_BH118	1.5	16/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25.3	-	-	-	<5	<1	8	14	26	<0.1	<2	<5
BUR_BH119_0.25	BUR_BH119	0.25	16/12/2021	No	No	N/A	No	No	Soil sample.	A. SMYLIE	66.6	-	-	-	-	-	-	-	26.3	-	-	-	13	<1	29	15	26	<0.1	6	15
BUR_BH119_1.0	BUR_BH119	1	16/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.8	-	-	-	6	<1	12	19	19	<0.1	<2	<5
BUR_BH120_0.2	BUR_BH120	0.2	17/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.8	-	-	-	14	<1	10	54	87	<0.1	22	80
BUR_BH120_0.5	BUR_BH120	0.5	17/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30.1	-	-	-	11	<1	24	7	23	<0.1	2	<5
BUR_BH121_0.16	BUR_BH121	0.16	18/01/2022	No	No	N/A	No	No	Soil sample.	A. SMYLIE	140	215	78	-	-	-	-	-	17	<10	-	4650	<5	<1	6	18	21	<0.1	2	26
BUR_BH121_0.16	BUR_BH121	0.16	18/01/2022	-	-	-	-	-	-	-	-	-	-	4.9	<0.2	0.4	<0.2	<0.2	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH122_0.13	BUR_BH122	0.13	18/01/2022	No	No	N/A	No	No	Soil sample.	A. SMYLIE	114	447	141	-	-	-	-	-	18.4	<10	-	2240	<5	<1	9	15	34	<0.1	6	61
BUR_BH122_0.3	BUR_BH122	0.3	18/01/2022	-	-	-	-	-	-	-	-	573	138	-	-	-	-	-	19.2	20	-	1740	7	<1	16	13	24	<0.1	2	21
BUR_BH122_0.7	BUR_BH122	0.7	18/01/2022	-	-	-	-	-	-	-	-	335	96	-	-	-	-	-	17.8	<10	-	2980	<5	<1	7	7	15	<0.1	<2	8
BUR_BH122_0.7	BUR_BH122	0.7	18/01/2022	-	-	-	-	-	-	-	-	-	-	4.9	1	0.3	0.3	4.4	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH123_0.12	BUR_BH123	0.12	18/01/2022	No	No	N/A	No	No	Soil sample.	A. SMYLIE	158	158	93	-	-	-	-	-	14.5	<10	-	6330	<5	1	4	<5	5	<0.1	2	26
BUR_BH123_0.3	BUR_BH123	0.3	18/01/2022	Yes	No	Ch	No	No	1[#1]	A. SMYLIE	29.3	-	-	-	-	-	-	-	17.4	-	-	-	8	<1	23	38	226	0.3	6	232
BUR_BH123_1.0	BUR_BH123	1	18/01/2022	-	-	-	-	-	-	-	-	262	70	-	-	-	-	-	24.7	<10	-	3820	12	<1	26	12	20	<0.1	3	45
BUR_BH123_1.0	BUR_BH123	1	18/01/2022	-	-	-	-	-	-	-	-	-	-	4.8	2.5	0.5	0.5	5.9	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH124_0.15	BUR_BH124	0.15	18/01/2022	No	No	N/A	No	No	Soil sample.	A. SMYLIE	170	282	100	-	-	-	-	-	19	<10	-	3550	<5	<1	20	41	86	0.1	9	104
BUR_BH124_0.15	BUR_BH124	0.15	18/01/2022	-	-	-	-	-	-	-	-	-	-	7.4	<0.2	1	0.2	2.8	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH125_0.2	BUR_BH125	0.2	21/12/2021	No	No	N/A	No	No	Soil sample.	A. SMYLIE	474	-	-	-	-	-	-	-	17.8	-	-	-	10	<1	18	53	445	0.2	9	286
BUR_BH125_0.5	BUR_BH125	0.5	21/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22.5	-	-	-	9	<1	25	15	50	<0.1	4	31
BUR_BH125_5.0	BUR_BH125	5	21/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.6	-	-	-	7	<1	14	21	21	<0.1	2	18
BH116-DEL1E-0.0-0.2	BH116-DEL1E	0.1	5/05/2022	No	-	N/A	No	No	Soil	K. FOLEY	500 ml	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH116-DEL1E-0.3-0.5	BH116-DEL1E	0.4	5/05/2022	No	-	N/A	No	No	Soil	K. FOLEY	500 ml	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH116-DEL1N-0.0-0.2	BH116-DEL1N	0.1	5/05/2022	No	-	N/A	No	No	Soil	K. FOLEY	500 ml	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH116-DEL1N-0.3-0.5	BH116-DEL1N	0.4	5/05/2022	No	-	N/A	No	No	Soil	K. FOLEY	500 ml	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

	Asbestos Identification in Soil								EC		Exchangeable Cations						Inorganics			Metals							
	Asbestos Detected	Asbestos (Trace)	Asbestos Type	Synthetic Mineral Fibre	Organic Fibre	Description	APPROVED IDENTIFIER:	Sample weight (dry)	Electrical Conductivity (Saturated Paste)	Electrical Conductivity @ 25°C	Exchangeable Calcium	Exchangeable Magnesium	Exchangeable Potassium	Exchangeable Sodium	Exchangeable Sodium Percent	Moisture Content	Chloride	Moisture Content (dried @ 103°C)	Resistivity (ohm.m)*	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc
	g/kg	Fibres	-	g/kg	g/kg	--	-	g	µS/cm	µS/cm	meq/100g	meq/100g	meq/100g	meq/100g	%	%	mg/kg	%	ohm cm	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.1	5		0.1	0.1			0.01	1	1	0.1	0.1	0.1	0.1	0.1	0.1	10		10	2	0.4	2	5	5	0.1	2	5
CRC Care (2011) Direct Contact HSL D - Comm/Ind																											
CRC Care (2011) Direct Contact Intrusive Maint. Worker																											
CRC Care (2017) Ecological guideline - Commercial and industrial																											
NEPM (1999) EIL - Commercial/Industrial																				160		310[#1]	85[#2] | 90[#3]	1800		55[#2] | 220[#3]	110[#2] | 390[#3]
NEPM (1999) ESL - Commercial/Industrial (fine)																											
NEPM (1999) HIL D - Commercial/Industrial																				3000	900	3600	240000	1500	730	6000	400000
NEPM (1999) HSL D Comm/Indust - Asbestos																											

Field_ID	LocCode	Sample_Depth_Avg	Sampled_Date-Time																									
BH116-DEL1S-0.0-0.2	BH116-DEL1S	0.1	5/05/2022	No	-	N/A	No	No	Soil	K. FOLEY	500 ml	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH116-DEL1S-0.3-0.5	BH116-DEL1S	0.4	5/05/2022	No	-	N/A	No	No	Soil	K. FOLEY	500 ml	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH116-DEL1W-0.0-0.2	BH116-DEL1W	0.1	5/05/2022	No	-	N/A	No	No	Soil	K. FOLEY	500 ml	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH116-DEL1W-0.3-0.5	BH116-DEL1W	0.4	5/05/2022	No	-	N/A	No	No	Soil	K. FOLEY	500 ml	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH123-DEL1E_0.0-0.2	BH123-DEL1E	0.1	6/05/2022	No	-	N/A	No	No	Soil	G. JIA	500 ml	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH123-DEL1E_0.3-0.5	BH123-DEL1E	0.4	6/05/2022	No	-	N/A	No	No	Soil	G. JIA	500 ml	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH123-DEL1N_0.0-0.2	BH123-DEL1N	0.1	6/05/2022	No	-	N/A	No	No	Soil	G. JIA	500 ml	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH123-DEL1N_0.3-0.5	BH123-DEL1N	0.4	6/05/2022	No	-	N/A	No	No	Soil	G. JIA	500 ml	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH123-DEL1S_0.0-0.2	BH123-DEL1S	0.1	6/05/2022	No	-	N/A	No	No	Soil	G. JIA	500 ml	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH123-DEL1S_0.3-0.5	BH123-DEL1S	0.4	6/05/2022	No	-	N/A	No	No	Soil	G. JIA	500 ml	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH123-DEL1W_0.0-0.2	BH123-DEL1W	0.1	6/05/2022	No	-	N/A	No	No	Soil	G. JIA	500 ml	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH123-DEL1W_0.3-0.5	BH123-DEL1W	0.4	6/05/2022	No	-	N/A	No	No	Soil	G. JIA	500 ml	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ERM_DEL1_0-0.2	ERM_DEL1	0.1	24/03/2022	No	-	N/A	No	No	Soil	S. XU	500 ml	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ERM_DEL1_0.2-0.5	ERM_DEL1	0.25	24/03/2022	No	-	N/A	No	No	Soil	S. XU	500 ml	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ERM_DEL2_0.2	ERM_DEL2	0.2	24/03/2022	No	-	N/A	No	No	Soil	S. XU	500 ml	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ERM_DEL2_0.2-0.5	ERM_DEL2	0.25	24/03/2022	No	-	N/A	No	No	Soil	S. XU	500 ml	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ERM_DEL3_0-0.2	ERM_DEL3	0.1	24/03/2022	No	-	N/A	No	No	Soil	S. XU	500 ml	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ERM_DEL3_0.2-0.5	ERM_DEL3	0.25	24/03/2022	No	-	N/A	No	No	Soil	S. XU	500 ml	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ERM_DEL4_0.0-0.2	ERM_DEL4	0.1	6/05/2022	No	-	N/A	No	No	Soil	G. JIA	500 ml	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ERM_DEL4_0.3-0.5	ERM_DEL4	0.4	6/05/2022	No	-	N/A	No	No	Soil	G. JIA	500 ml	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SES SEA1-0.0-0.2	SES SEA1	0.1	5/05/2022	No	-	N/A	No	No	Soil	K. FOLEY	57	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SES SEA1-0.3-0.5	SES SEA1	0.4	5/05/2022	No	-	N/A	No	No	Soil	K. FOLEY	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SES SEA3-0.0-0.2	SES SEA3	0.1	5/05/2022	No	-	N/A	No	No	Soil	K. FOLEY	59	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SES SEA3-0.3-0.5	SES SEA3	0.4	6/05/2022	No	-	N/A	No	No	Soil	K. FOLEY	64	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Statistical Summary

Number of Results	50	-	-	50	50	2	50	50	7	7	4	4	4	4	4	91	7	8	7	97	97	97	97	97	97	97	97
Number of Detects	2	0	0	0	0	2	0	69	7	7	4	2	4	3	3	90	1	8	7	76	5	96	94	97	21	71	81
Minimum Concentration	-	-	-	-	-	-	-	26	158	70	4.8	<0.2	0.3	<0.2	<0.2	<1	<10	8.5	1740	3.8	<0.4	<2	<5	5	<0.1	<2	<5
Minimum Detect	-	-	-	-	-	-	-	26	158	70	4.8	1	0.3	0.2	2.8	4.3	20	8.5	1740	3.8	0.6	4	5	5	0.1	2	7
Maximum Concentration	-	-	-	-	-	-	-	518	573	141	7.4	2.5	1	0.5	5.9	30.5	20	26	6330	19	8	96	308	4380	0.4	95	2170
Maximum Detect	-	-	-	-	-	-	-	518	573	141	7.4	2.5	1	0.5	5.9	30.5	20	26	6330	19	8	96	308	4380	0.4	95	2170
Average Concentration	-	-	-	-	-	-	-	255	325	102	5.5	0.93	0.55	0.28	3.3	17	7.1	16	3616	7.5	0.65	15	40	151	0.088	12	136
Median Concentration	-	-	-	-	-	-	-	147	282	96	4.9	0.55	0.45	0.25	3.6	16.5	5	15	3550	8	0.5	12	25	23	0.05	6	44
Standard Deviation	-	-	-	-	-	-	-	206	143	27	1.3	1.1	0.31	0.17	2.5	7.4	5.7	6.4	1544	3.7	0.94	11	49	480	0.086	16	288
Number of Guideline Exceedances	-	-	-	-	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	1	0	0	6
Number of Guideline Exceedances(Detects Only)	-	-	-	-	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	1	0	0	6

Env Stds Comments

#1:Most conservative Chromium (III) ACL adopted - NEPM Table 1B
#2:Most conservative ACL adopted - NEPM Table 1B
#3:Calculated Site Specific

Data Comments

#1 Soil sample containing one piece of asbestos cement debris approximately 10x5x2mm.
#2 One piece of asbestos cement sheeting approximately 140x80x5mm.

	TRH - Semivolatile Fraction									TRH Volatiles/BTEX									BTEX	Naphthalene	PAH/Phenols										
	>C10 - C16 Fraction	>C10 - C16 Fraction minus Naphthalene (F2)	>C16 - C34 Fraction	>C34 - C40 Fraction	>C10 - C40 Fraction (sum)	C10 - C14 Fraction	C15 - C28 Fraction	C29 - C36 Fraction	C10 - C36 Fraction (sum)	Toluene	Total Xylenes	Benzene	C6 - C10 Fraction	C6 - C10 Fraction minus BTEX (F1)	C6 - C9 Fraction	Ethylbenzene	meta- & para-Xylene	ortho-Xylene	Sum of BTEX	Total MAH	Naphthalene	Acenaphthene	Acenaphthylene	Anthracene	Fluoranthene	Fluorene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(a)pyrene TEQ (half LOR)	Benzo(a)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ (zero)
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	50	50	100	100	50	20	50	50	50	0.1	0.3	0.1	10	10	10	0.1	0.2	0.1	0.2		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
CRC Care (2011) Direct Contact HSL D - Comm/Ind		20000	27000	38000						99000	81000	430		26000		27000					11000										
CRC Care (2011) Direct Contact Intrusive Maint. Worker		62000	85000	120000						120000	130000	1100		82000		85000					29000										
CRC Care (2017) Ecological guideline - Commercial and industrial																												172			
NEPM (1999) EIL - Commercial/Industrial																					370										
NEPM (1999) ESL - Commercial/Industrial (fine)			2500	6600						135	95	95				185												1.4			
NEPM (1999) HIL D - Commercial/Industrial																													40		
NEPM (1999) HSL D Comm/Indust - VI Clay 0 to <1 m		NL								NL	NL	4		310		NL					NL										
NEPM (1999) HSL D Comm/Indust - VI Clay 1 to <2 m		NL								NL	NL	6		480		NL					NL										
NEPM (1999) HSL D Comm/Indust - VI Clay 2 to <4 m		NL								NL	NL	9		NL		NL					NL										
NEPM (1999) HSL D Comm/Indust - VI Clay 4 m+		NL								NL	NL	NL		NL		NL					NL										
NEPM (1999) Management Limits - Commercial/Industrial (fine)	1000		5000	10000									800																		

Field_ID	LocCode	Sample_Depth (m)	Sampled_Date																													
BUR_BH101_0.1	BUR_BH101	0.1	21/12/2021	<50	<50	<100	120	120	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	1	4.8	<0.5	1.8	1.6	2.4	2.7	2.2
BUR_BH101_2.0	BUR_BH101	2	21/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-	-
BUR_BH102_0.2	BUR_BH102	0.2	16/12/2021	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
BUR_BH102_2.0	BUR_BH102	2	16/12/2021	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
BUR_BH103_0.1	BUR_BH103	0.1	16/12/2021	<50	<50	380	130	510	<50	250	200	450	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	1.6	2.2	13.6	0.6	7.2	6.5	9.6	9.6	9.6
D01_20211216	BUR_BH103	0.1	16/12/2021	<50	<50	390	140	530	<50	260	210	470	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	1.9	2.3	15.2	0.6	8.2	7.4	11	11	11
T01_20211216	BUR_BH103	0.1	16/12/2021	<500	<500	1200	<1000	1200	<200	750	660	1410	<0.1	<0.3	<0.1	<20	<20	<20	<0.1	<0.2	<0.1	-	<0.5	<0.5 - 0.6	<0.5	1.6	2.5	16	0.7	8.4	8.2	12	12	12
BUR_BH103_0.7	BUR_BH103	0.7	16/12/2021	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
BUR_BH103_3.0	BUR_BH103	3	16/12/2021	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
BUR_BH103_5.0	BUR_BH103	5	16/12/2021	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
BUR_BH105_0.1	BUR_BH105	0.1	15/12/2021	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
BUR_BH105_3.0	BUR_BH105	3	15/12/2021	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
BUR_BH106_0.2	BUR_BH106	0.2	17/12/2021	<50	<50	200	<100	200	<50	120	130	250	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	0.6	0.9	5.8	<0.5	2.6	2.4	3.5	3.7	3.2
BUR_BH106_1.0	BUR_BH106	1	17/12/2021	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
BUR_BH106_2.0	BUR_BH106	2	17/12/2021	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
BUR_BH106_3.0	BUR_BH106	3	17/12/2021	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
BUR_BH106_4.0	BUR_BH106	4	17/12/2021	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
D02_20211217	BUR_BH106	4	17/12/2021	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
TO2-20211217	BUR_BH106	4	17/12/2021	<50	<50	<100	<100	<100	<20	<50	<50	<50	<0.1	<0.3	<0.1	<20	<20	<20	<0.1	<0.2	<0.1	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
BUR_BH106_5.0	BUR_BH106	5	17/12/2021	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
BUR_BH107_0.2	BUR_BH107	0.2	17/12/2021	<50	<50	410	400	810	<50	170	370	540	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
BUR_BH107_1.0	BUR_BH107	1	17/12/2021	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
BUR_BH107_3.0	BUR_BH107	3	17/12/2021	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
D03_20211217	BUR_BH107	3	17/12/2021	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
TO3-20211217	BUR_BH107	3	17/12/2021	<50	<50	<100	<100	<100	<20	<50	<50	<50	<0.1	<0.3	<0.1	<20	<20	<20	<0.1	<0.2	<0.1	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
BUR_BH107_5.0	BUR_BH107	5	17/12/2021	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
BUR_BH108_0.2	BUR_BH108	0.2	17/12/2021	<50	<50	220	140	360	<50	130	140	270	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	0.7	1.3	9.4	<0.5	4.4	4.2	6.2	6.2	6.2
D04_20211217	BUR_BH108	0.2	17/12/2021	<50	<50	150	<100	150	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	0.7	1.2	7.9	<0.5	3.8	3.8	5.5	5.5	5.5
TO4-20211217	BUR_BH108	0.2	17/12/2021	<50	<50	<100	<100	<100	<20	<50	<50	<50	<0.1	<0.3	<0.1	<20	<20	<20	<0.1	<0.2	<0.1	-	<0.5	<0.5	<0.5	<0.5	<0.5	1	<0.5	0.5	0.6	1	1.3	0.7
BUR_BH108_0.5	BUR_BH108	0.5	17/12/2021	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
BUR_BH108_2.0	BUR_BH108	2	17/12/2021	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
BUR_BH108_5.8	BUR_BH108	5.8	17/12/2021	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
BUR_BH108_11.0	BUR_BH108	11	17/12/2021	230	230	420	<100	650	160	440	<100	600	<0.5	<0.5	<0.2	50	50	30	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
BUR_BH108_17.0	BUR_BH108	17	17/12/2021	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
BUR_BH108_20.0	BUR_BH108	20	17/12/2021	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	13	13	11	<0.5	<0.5 - 0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
BUR_BH109_0.2	BUR_BH109	0.2	20/12/2021	<50	<50	300	380	680	<50	110	330	440	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
BUR_BH109_0.5	BUR_BH109	0.5	20/12/2021	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
BUR_BH109_1.0	BUR_BH109	1	20/12/2021	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
BUR_BH109_3.0	BUR_BH109	3	20/12/2021	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
BUR_BH110_0.2	BUR_BH110	0.2	20/12/2021	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	0.8	<0.5	0.6	0.8	1.2	1.6	1

				TRH - Semivolatile Fraction									TRH Volatiles/BTEX									BTEX	Naphthalene	PAH/Phenols										
				>C10 - C16 Fraction	>C10 - C16 Fraction minus Naphthalene (F2)	>C16 - C34 Fraction	>C34 - C40 Fraction	>C10 - C40 Fraction (sum)	C10 - C14 Fraction	C15 - C28 Fraction	C29 - C36 Fraction	C10 - C36 Fraction (sum)	Toluene	Total Xylenes	Benzene	C6 - C10 Fraction	C6 - C10 Fraction minus BTEX (F1)	C6 - C9 Fraction	Ethylbenzene	meta- & para-Xylene	ortho-Xylene	Sum of BTEX	Total MAH	Naphthalene	Acenaphthene	Acenaphthylene	Anthracene	Fluoranthene	Fluorene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(a)pyrene TEQ (half LOR)	Benzo(a)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ (zero)
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				50	50	100	100	50	20	50	50	50	0.1	0.3	0.1	10	10	10	0.1	0.2	0.1	0.2		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
CRC Care (2011) Direct Contact HSL D - Comm/Ind					20000	27000	38000						99000	81000	430		26000		27000					11000										
CRC Care (2011) Direct Contact Intrusive Maint. Worker					62000	85000	120000						120000	130000	1100		82000		85000					29000										
CRC Care (2017) Ecological guideline - Commercial and industrial																														172			
NEPM (1999) EIL - Commercial/Industrial																							370										
NEPM (1999) ESL - Commercial/Industrial (fine)						2500	6600						135	95	95				185											1.4			
NEPM (1999) HIL D - Commercial/Industrial																															40		
NEPM (1999) HSL D Comm/Indust - VI Clay 0 to <1 m					NL								NL	NL	4		310		NL					NL										
NEPM (1999) HSL D Comm/Indust - VI Clay 1 to <2 m					NL								NL	NL	6		480		NL					NL										
NEPM (1999) HSL D Comm/Indust - VI Clay 2 to <4 m					NL								NL	NL	9		NL		NL					NL										
NEPM (1999) HSL D Comm/Indust - VI Clay 4 m+					NL								NL	NL	NL		NL		NL					NL										
NEPM (1999) Management Limits - Commercial/Industrial (fine)				1000		5000	10000									800																		
Field_ID	**LocCode**	**Sample_Depth (m)**	**Sampled_Date**																															
BUR_BH110_0.5	BUR_BH110	0.5	20/12/2021	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
BUR_BH110_1.0	BUR_BH110	1	20/12/2021	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
BUR_BH110_5.0	BUR_BH110	5	20/12/2021	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
BUR_BH111_0.2	BUR_BH111	0.2	20/12/2021	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	0.6	1.2	<0.5
BUR_BH111_0.5	BUR_BH111	0.5	20/12/2021	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	0.8	<0.5	<0.5	<0.5	0.6	1.2	<0.5
D05_20211220	BUR_BH111	0.5	20/12/2021	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
T05-20211220	BUR_BH111	0.5	20/12/2021	<50	<50	260	<100	260	<20	120	<50	120	<0.1	<0.3	<0.1	<20	<20	<20	<0.1	<0.2	<0.1	-	-	<0.5	<0.5	<0.5	<0.5	1.4	<0.5	0.8	0.9	1.4	1.7	1.2
BUR_BH111_2.0	BUR_BH111	2	20/12/2021	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
BUR_BH111_5.0	BUR_BH111	5	20/12/2021	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
BUR_BH112_0.2	BUR_BH112	0.2	21/12/2021	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	11	11	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
BUR_BH112_0.5	BUR_BH112	0.5	21/12/2021	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
BUR_BH112_5.0	BUR_BH112	5	21/12/2021	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
BUR_BH113_0.2	BUR_BH113	0.2	20/12/2021	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
BUR_BH113_1.0	BUR_BH113	1	20/12/2021	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
BUR_BH113_2.0	BUR_BH113	2	20/12/2021	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
D06__2021220	BUR_BH113	2	20/12/2021	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
T06-20211220	BUR_BH113	2	20/12/2021	<50	<50	<100	<100	<100	<20	<50	<50	<50	<0.1	<0.3	<0.1	<20	<20	<20	<0.1	<0.2	<0.1	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
BUR_BH113_5.0	BUR_BH113	5	20/12/2021	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
BUR_BH114_0.2	BUR_BH114	0.2	20/12/2021	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
BUR_BH114_0.5	BUR_BH114	0.5	20/12/2021	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
BUR_BH114_5.0	BUR_BH114	5	20/12/2021	70	70	180	<100	250	<50	180	<100	180	<0.5	<0.5	<0.2	26	26	16	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
BUR_BH114_10.0	BUR_BH114	10	20/12/2021	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
BUR_BH114_15.0	BUR_BH114	15	20/12/2021	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
BUR_BH115_0.2	BUR_BH115	0.2	21/12/2021	<50	<50	250	<100	250	<50	150	150	300	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	0.6	1	7.1	<0.5	3.1	2.6	3.8	4	3.6
BUR_BH115_0.5	BUR_BH115	0.5	21/12/2021	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	1.8	<0.5	1	1.2	1.8	2.1	1.6
BUR_BH115_1.0	BUR_BH115	1	21/12/2021	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
BUR_BH115_5.0	BUR_BH115	5	21/12/2021	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
BUR_BH115_10.0	BUR_BH115	10	21/12/2021	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
BUR_BH115_15.0	BUR_BH115	15	21/12/2021	170	170	300	<100	470	150	300	<100	450	<0.5	<0.5	<0.2	69	69	44	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
BUR_BH116_0.2	BUR_BH116	0.2	21/12/2021	<50	<50	630	200	830	<50	440	290	730	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<1 - 1.1	<0.5	4.4	8.4	38.8	1.9	16.1	14.5	21.3	21.3	21.3
D07_20211221	BUR_BH116	0.2	21/12/2021	<50	<50	490	170	660	<50	330	230	560	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<1 - 0.7	<0.5	3	4.3	25.5	1	11.1	11.1	16.2	16.2	16.2
T07-20211221	BUR_BH116	0.2	21/12/2021	<50	<50	410	<100	410	<20	160	82	242	<0.1	<0.3	<0.1	<20	<20	<20	<0.1	<0.2	<0.1	-	-	<0.5	<0.5	<0.5	<0.5	0.7	<0.5	<0.5	0.7	1.1	1.4	0.8
BUR_BH116_0.5	BUR_BH116	0.5	21/12/2021	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
BUR_BH116_3.0	BUR_BH116	3	21/12/2021	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
BUR_BH117_0.2	BUR_BH117	0.2	21/12/2021	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	1.9	<0.5	0.9	1.1	1.7	1.9	1.4
D08_20211221	BUR_BH117	0.2	21/12/2021	<50	<50	150	<100	150	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	2.1	<0.5	1	1.1	1.7	2	1.4
BUR_BH117_1.0	BUR_BH117	1	21/12/2021	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
BUR_BH117_3.0	BUR_BH117	3	21/12/2021	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
BUR_BH118_0.25	BUR_BH118	0.25	16/12/2021	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
BUR_BH118_1.5	BUR_BH118	1.5	16/12/2021	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	0.9	<0.5	<0.5	0.5	0.9	1.2	0.6

				TRH - Semivolatile Fraction									TRH Volatiles/BTEX									BTEX	Naphthalene	PAH/Phenols										
				>C10 - C16 Fraction	>C10 - C16 Fraction minus Naphthalene (F2)	>C16 - C34 Fraction	>C34 - C40 Fraction	>C10 - C40 Fraction (sum)	C10 - C14 Fraction	C15 - C28 Fraction	C29 - C36 Fraction	C10 - C36 Fraction (sum)	Toluene	Total Xylenes	Benzene	C6 - C10 Fraction	C6 - C10 Fraction minus BTEX (F1)	C6 - C9 Fraction	Ethylbenzene	meta- & para-Xylene	ortho-Xylene	Sum of BTEX	Total MAH	Naphthalene	Acenaphthene	Acenaphthylene	Anthracene	Fluoranthene	Fluorene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(a)pyrene TEQ (half LOR)	Benzo(a)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ (zero)
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				50	50	100	100	50	20	50	50	50	0.1	0.3	0.1	10	10	10	0.1	0.2	0.1	0.2		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
CRC Care (2011) Direct Contact HSL D - Comm/Ind					20000	27000	38000						99000	81000	430		26000		27000					11000										
CRC Care (2011) Direct Contact Intrusive Maint. Worker					62000	85000	120000						120000	130000	1100		82000		85000					29000										
CRC Care (2017) Ecological guideline - Commercial and industrial																														172			
NEPM (1999) EIL - Commercial/Industrial																							370										
NEPM (1999) ESL - Commercial/Industrial (fine)						2500	6600						135	95	95				185											1.4			
NEPM (1999) HIL D - Commercial/Industrial																															40		
NEPM (1999) HSL D Comm/Indust - VI Clay 0 to <1 m					NL								NL	NL	4		310		NL					NL										
NEPM (1999) HSL D Comm/Indust - VI Clay 1 to <2 m					NL								NL	NL	6		480		NL					NL										
NEPM (1999) HSL D Comm/Indust - VI Clay 2 to <4 m					NL								NL	NL	9		NL		NL					NL										
NEPM (1999) HSL D Comm/Indust - VI Clay 4 m+					NL								NL	NL	NL		NL		NL					NL										
NEPM (1999) Management Limits - Commercial/Industrial (fine)				1000		5000	10000									800																		
Field_ID	**LocCode**	**Sample_Depth (m)**	**Sampled_Date**																																
BUR_BH119_0.25	BUR_BH119	0.25	16/12/2021	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
BUR_BH119_1.0	BUR_BH119	1	16/12/2021	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
BUR_BH120_0.2	BUR_BH120	0.2	17/12/2021	<50	<50	220	120	340	<50	130	140	270	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
BUR_BH120_0.5	BUR_BH120	0.5	17/12/2021	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
BUR_BH121_0.16	BUR_BH121	0.16	18/01/2022	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
BUR_BH122_0.13	BUR_BH122	0.13	18/01/2022	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	1.3	<0.5	0.7	0.6	1	1.4	0.7
BUR_BH122_0.3	BUR_BH122	0.3	18/01/2022	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
BUR_BH122_0.7	BUR_BH122	0.7	18/01/2022	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
BUR_BH123_0.12	BUR_BH123	0.12	18/01/2022	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
BUR_BH123_0.3	BUR_BH123	0.3	18/01/2022	<50	<50	120	<100	120	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	4.6	<0.5	2.6	2.8	3.9	4.2	3.7
BUR_BH123_1.0	BUR_BH123	1	18/01/2022	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
BUR_BH124_0.15	BUR_BH124	0.15	18/01/2022	<50	<50	130	<100	130	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
BUR_BH125_0.2	BUR_BH125	0.2	21/12/2021	<50	<50	240	<100	240	<50	160	130	290	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	0.7	1	6.1	<0.5	3.2	3.6	5	5.2	4.7
BUR_BH125_0.5	BUR_BH125	0.5	21/12/2021	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
BUR_BH125_5.0	BUR_BH125	5	21/12/2021	<50	<50	<100	<100	<50	<50	<100	<100	<50	<0.5	<0.5	<0.2	<10	<10	<10	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
Statistical Summary																																		
Number of Results				94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	87	5	95	94	94	94	94	94	94	94	94	94	94
Number of Detects				3	3	21	9	22	2	17	13	17	0	0	0	5	5	4	0	1	0	0	0	3	0	10	11	25	5	19	21	94	94	21
Minimum Concentration				<50	<50	<100	<100	<50	<20	<50	<50	<50	<0.1	<0.3	<0.1	<10	<10	<10	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5
Minimum Detect				70	70	120	120	120	150	110	82	120	ND	ND	ND	11	11	11	ND	ND	ND	ND	ND	ND	ND	0.6	0.9	0.5	0.6	0.5	0.5	0.6	1.2	0.6
Maximum Concentration				<500	<500	1200	<1000	1200	<200	750	660	1410	<0.5	<0.5	<0.2	69	69	44	<0.5	0.5	<0.5	<0.2	<0.5	1.1	<0.5	4.4	8.4	38.8	1.9	16.1	14.5	21.3	21.3	21.3
Maximum Detect				230	230	1200	400	1200	160	750	660	1410	ND	ND	ND	69	69	44	ND	0.5	ND	ND	ND	1.1	ND	4.4	8.4	38.8	1.9	16.1	14.5	21.3	21.3	21.3
Average Concentration				32	32	114	69	119	28	85	74	101	0.24	0.24	0.096	6.9	6.9	6.2	0.24	0.24	0.24	0.1	0.25	0.26	0.25	0.39	0.5	2	0.29	1	1	1.7	2.2	1.3
Median Concentration				25	25	50	50	25	25	50	50	25	0.25	0.25	0.1	5	5	5	0.25	0.25	0.25	0.1	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.6	1.2	0.25
Standard Deviation				35	35	163	71	217	21	104	85	204	0.053	0.026	0.013	8.4	8.4	5	0.053	0.042	0.053	0	0	0.073	0	0.57	1	5.5	0.2	2.4	2.3	3.3	3.1	3.4
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0

| | | | | (SIM) | | | | | | | | | Chlorinated HCs | | | | | | | | |

| | | | | (SIM) | | | | | | | | | Chlorinated HCs | | | | | | | | |

| | | | | (SIM) | | | | | | | | | Chlorinated HCs | | | | | | | | |

					VOC																																	
					1,1-dichloropropene	1,2,3-trichloropropane	1,2-dibromo-3-chloropropane	1,2-dibromoethane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	2,2-dichloropropane	2-butanone (MEK)	2-hexanone (MBK)	4-methyl-2-pentanone (MIBK)	Acetone	Allyl chloride	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorodibromomethane	Chloroethane	Chloroform	Chloromethane	cis-1,2-dichloroethene	cis-1,3-dichloropropene	cis-1,4-Dichloro-2-butene	Dibromomethane	Dichlorodifluoromethane	Dichloromethane	Iodomethane	Pentachloroethane	TCE	Tetrachloroethene
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL					0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	5	0.5				0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5		0.5	0.5	0.5	0.5
CRC Care (2011) Direct Contact HSL D - Comm/Ind																																						
CRC Care (2011) Direct Contact Intrusive Maint. Worker																																						
CRC Care (2017) Ecological guideline - Commercial and industrial																																						
NEPM (1999) EIL - Commercial/Industrial																																						
NEPM (1999) ESL - Commercial/Industrial (fine)																																						
NEPM (1999) HIL D - Commercial/Industrial																																						
NEPM (1999) HSL D Comm/Indust - VI Clay 0 to <1 m																																						
NEPM (1999) HSL D Comm/Indust - VI Clay 1 to <2 m																																						
NEPM (1999) HSL D Comm/Indust - VI Clay 2 to <4 m																																						
NEPM (1999) HSL D Comm/Indust - VI Clay 4 m+																																						
NEPM (1999) Management Limits - Commercial/Industrial (fine)																																						
Field_ID	**LocCode**	**Sample_Depth (m)**	**Sampled_Date**																																				
BUR_BH101_0.1	BUR_BH101	0.1	21/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	-	-	-	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	-	<0.5	<0.5	<0.5	<0.5
BUR_BH101_2.0	BUR_BH101	2	21/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	-	-	-	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	-	<0.5	<0.5	<0.5	<0.5
BUR_BH102_0.2	BUR_BH102	0.2	16/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	-	-	-	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	-	<0.5	<0.5	<0.5	<0.5
BUR_BH102_2.0	BUR_BH102	2	16/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH103_0.1	BUR_BH103	0.1	16/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	-	-	-	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	-	<0.5	<0.5	<0.5	<0.5
D01_20211216	BUR_BH103	0.1	16/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	-	-	-	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	-	<0.5	<0.5	<0.5	<0.5
T01_20211216	BUR_BH103	0.1	16/12/2021	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
BUR_BH103_0.7	BUR_BH103	0.7	16/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	-	-	-	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	-	<0.5	<0.5	<0.5	<0.5
BUR_BH103_3.0	BUR_BH103	3	16/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH103_5.0	BUR_BH103	5	16/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	-	-	-	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	-	<0.5	<0.5	<0.5	<0.5
BUR_BH105_0.1	BUR_BH105	0.1	15/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	-	-	-	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	-	<0.5	<0.5	<0.5	<0.5
BUR_BH105_3.0	BUR_BH105	3	15/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH106_0.2	BUR_BH106	0.2	17/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	-	-	-	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	-	<0.5	<0.5	<0.5	<0.5
BUR_BH106_1.0	BUR_BH106	1	17/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH106_2.0	BUR_BH106	2	17/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	-	-	-	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	-	<0.5	<0.5	<0.5	<0.5
BUR_BH106_3.0	BUR_BH106	3	17/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH106_4.0	BUR_BH106	4	17/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	-	-	-	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	-	<0.5	<0.5	<0.5	<0.5
D02_20211217	BUR_BH106	4	17/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	-	-	-	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	-	<0.5	<0.5	<0.5	<0.5
TO2-20211217	BUR_BH106	4	17/12/2021	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
BUR_BH106_5.0	BUR_BH106	5	17/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH107_0.2	BUR_BH107	0.2	17/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH107_1.0	BUR_BH107	1	17/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	-	-	-	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	-	<0.5	<0.5	<0.5	<0.5
BUR_BH107_3.0	BUR_BH107	3	17/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	-	-	-	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	-	<0.5	<0.5	<0.5	<0.5
D03_20211217	BUR_BH107	3	17/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	-	-	-	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	-	<0.5	<0.5	<0.5	<0.5
TO3-20211217	BUR_BH107	3	17/12/2021	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
BUR_BH107_5.0	BUR_BH107	5	17/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	-	-	-	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	-	<0.5	<0.5	<0.5	<0.5
BUR_BH108_0.2	BUR_BH108	0.2	17/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	-	-	-	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	-	<0.5	<0.5	<0.5	<0.5
D04_20211217	BUR_BH108	0.2	17/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	-	-	-	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	-	<0.5	<0.5	<0.5	<0.5
TO4-20211217	BUR_BH108	0.2	17/12/2021	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
BUR_BH108_0.5	BUR_BH108	0.5	17/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	-	-	-	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	-	<0.5	<0.5	<0.5	<0.5
BUR_BH108_2.0	BUR_BH108	2	17/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH108_5.8	BUR_BH108	5.8	17/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	-	-	-	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	-	<0.5	<0.5	<0.5	<0.5
BUR_BH108_11.0	BUR_BH108	11	17/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH108_17.0	BUR_BH108	17	17/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH108_20.0	BUR_BH108	20	17/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	-	-	-	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	-	<0.5	<0.5	<0.5	<0.5
BUR_BH109_0.2	BUR_BH109	0.2	20/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	-	-	-	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	-	<0.5	<0.5	<0.5	<0.5
BUR_BH109_0.5	BUR_BH109	0.5	20/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH109_1.0	BUR_BH109	1	20/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	-	-	-	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	-	<0.5	<0.5	<0.5	<0.5
BUR_BH109_3.0	BUR_BH109	3	20/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH110_0.2	BUR_BH110	0.2	20/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	-	-	-	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	-	<0.5	<0.5	<0.5	<0.5

				VOC																																	
				1,1-dichloropropene	1,2,3-trichloropropane	1,2-dibromo-3-chloropropane	1,2-dibromoethane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	2,2-dichloropropane	2-butanone (MEK)	2-hexanone (MBK)	4-methyl-2-pentanone (MIBK)	Acetone	Allyl chloride	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorodibromomethane	Chloroethane	Chloroform	Chloromethane	cis-1,2-dichloroethene	cis-1,3-dichloropropene	cis-1,4-Dichloro-2-butene	Dibromomethane	Dichlorodifluoromethane	Dichloromethane	Iodomethane	Pentachloroethane	TCE	Tetrachloroethene
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	5	0.5				0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5		0.5	0.5	0.5	0.5
CRC Care (2011) Direct Contact HSL D - Comm/Ind																																					
CRC Care (2011) Direct Contact Intrusive Maint. Worker																																					
CRC Care (2017) Ecological guideline - Commercial and industrial																																					
NEPM (1999) EIL - Commercial/Industrial																																					
NEPM (1999) ESL - Commercial/Industrial (fine)																																					
NEPM (1999) HIL D - Commercial/Industrial																																					
NEPM (1999) HSL D Comm/Indust - VI Clay 0 to <1 m																																					
NEPM (1999) HSL D Comm/Indust - VI Clay 1 to <2 m																																					
NEPM (1999) HSL D Comm/Indust - VI Clay 2 to <4 m																																					
NEPM (1999) HSL D Comm/Indust - VI Clay 4 m+																																					
NEPM (1999) Management Limits - Commercial/Industrial (fine)																																					
Field_ID	**LocCode**	**Sample_Depth (m)**	**Sampled_Date**																																		
BUR_BH110_0.5	BUR_BH110	0.5	20/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH110_1.0	BUR_BH110	1	20/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	-	-	-	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	-	<0.5	<0.5	<0.5	<0.5
BUR_BH110_5.0	BUR_BH110	5	20/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH111_0.2	BUR_BH111	0.2	20/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	-	-	-	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	-	<0.5	<0.5	<0.5	<0.5
BUR_BH111_0.5	BUR_BH111	0.5	20/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D05_20211220	BUR_BH111	0.5	20/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
T05-20211220	BUR_BH111	0.5	20/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH111_2.0	BUR_BH111	2	20/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	-	-	-	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	-	<0.5	<0.5	<0.5	<0.5
BUR_BH111_5.0	BUR_BH111	5	20/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH112_0.2	BUR_BH112	0.2	21/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH112_0.5	BUR_BH112	0.5	21/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	-	-	-	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	-	<0.5	<0.5	<0.5	<0.5
BUR_BH112_5.0	BUR_BH112	5	21/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	-	-	-	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	-	<0.5	<0.5	<0.5	<0.5
BUR_BH113_0.2	BUR_BH113	0.2	20/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	-	-	-	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	-	<0.5	<0.5	<0.5	<0.5
BUR_BH113_1.0	BUR_BH113	1	20/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH113_2.0	BUR_BH113	2	20/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	-	-	-	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	-	<0.5	<0.5	<0.5	<0.5
D06__2021220	BUR_BH113	2	20/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	-	-	-	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	-	<0.5	<0.5	<0.5	<0.5
T06-20211220	BUR_BH113	2	20/12/2021	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
BUR_BH113_5.0	BUR_BH113	5	20/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH114_0.2	BUR_BH114	0.2	20/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH114_0.5	BUR_BH114	0.5	20/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	-	-	-	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	-	<0.5	<0.5	<0.5	<0.5
BUR_BH114_5.0	BUR_BH114	5	20/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH114_10.0	BUR_BH114	10	20/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	-	-	-	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	-	<0.5	<0.5	<0.5	<0.5
BUR_BH114_15.0	BUR_BH114	15	20/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH115_0.2	BUR_BH115	0.2	21/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	-	-	-	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	-	<0.5	<0.5	<0.5	<0.5
BUR_BH115_0.5	BUR_BH115	0.5	21/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH115_1.0	BUR_BH115	1	21/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	-	-	-	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	-	<0.5	<0.5	<0.5	<0.5
BUR_BH115_5.0	BUR_BH115	5	21/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH115_10.0	BUR_BH115	10	21/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	-	-	-	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	-	<0.5	<0.5	<0.5	<0.5
BUR_BH115_15.0	BUR_BH115	15	21/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH116_0.2	BUR_BH116	0.2	21/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D07_20211221	BUR_BH116	0.2	21/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
T07-20211221	BUR_BH116	0.2	21/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH116_0.5	BUR_BH116	0.5	21/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	-	-	-	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	-	<0.5	<0.5	<0.5	<0.5
BUR_BH116_3.0	BUR_BH116	3	21/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH117_0.2	BUR_BH117	0.2	21/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	-	-	-	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	-	<0.5	<0.5	<0.5	<0.5
D08_20211221	BUR_BH117	0.2	21/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	-	-	-	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	-	<0.5	<0.5	<0.5	<0.5
BUR_BH117_1.0	BUR_BH117	1	21/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH117_3.0	BUR_BH117	3	21/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH118_0.25	BUR_BH118	0.25	16/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	-	-	-	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	-	<0.5	<0.5	<0.5	<0.5
BUR_BH118_1.5	BUR_BH118	1.5	16/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	-	-	-	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	-	<0.5	<0.5	<0.5	<0.5

				VOC																																		
				1,1-dichloropropene	1,2,3-trichloropropane	1,2-dibromo-3-chloropropane	1,2-dibromoethane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	2,2-dichloropropane	2-butanone (MEK)	2-hexanone (MBK)	4-methyl-2-pentanone (MIBK)	Acetone	Allyl chloride	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorodibromomethane	Chloroethane	Chloroform	Chloromethane	cis-1,2-dichloroethene	cis-1,3-dichloropropene	cis-1,4-Dichloro-2-butene	Dibromomethane	Dichlorodifluoromethane	Dichloromethane	Iodomethane	Pentachloroethane	TCE	Tetrachloroethene
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	5	0.5				0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5		0.5	0.5	0.5	0.5
CRC Care (2011) Direct Contact HSL D - Comm/Ind																																						
CRC Care (2011) Direct Contact Intrusive Maint. Worker																																						
CRC Care (2017) Ecological guideline - Commercial and industrial																																						
NEPM (1999) EIL - Commercial/Industrial																																						
NEPM (1999) ESL - Commercial/Industrial (fine)																																						
NEPM (1999) HIL D - Commercial/Industrial																																						
NEPM (1999) HSL D Comm/Indust - VI Clay 0 to <1 m																																						
NEPM (1999) HSL D Comm/Indust - VI Clay 1 to <2 m																																						
NEPM (1999) HSL D Comm/Indust - VI Clay 2 to <4 m																																						
NEPM (1999) HSL D Comm/Indust - VI Clay 4 m+																																						
NEPM (1999) Management Limits - Commercial/Industrial (fine)																																						
Field_ID	**LocCode**	**Sample_Depth (m)**	**Sampled_Date**																																				
BUR_BH119_0.25	BUR_BH119	0.25	16/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	-	-	-	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	-	<0.5	<0.5	<0.5	<0.5
BUR_BH119_1.0	BUR_BH119	1	16/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	-	-	-	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	-	<0.5	<0.5	<0.5	<0.5
BUR_BH120_0.2	BUR_BH120	0.2	17/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	-	-	-	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	-	<0.5	<0.5	<0.5	<0.5
BUR_BH120_0.5	BUR_BH120	0.5	17/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH121_0.16	BUR_BH121	0.16	18/01/2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH122_0.13	BUR_BH122	0.13	18/01/2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH122_0.3	BUR_BH122	0.3	18/01/2022	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	-	-	-	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	-	<0.5	<0.5	<0.5	<0.5
BUR_BH122_0.7	BUR_BH122	0.7	18/01/2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH123_0.12	BUR_BH123	0.12	18/01/2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH123_0.3	BUR_BH123	0.3	18/01/2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH123_1.0	BUR_BH123	1	18/01/2022	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	-	-	-	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	-	<0.5	<0.5	<0.5	<0.5
BUR_BH124_0.15	BUR_BH124	0.15	18/01/2022	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	-	-	-	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	-	<0.5	<0.5	<0.5	<0.5
BUR_BH125_0.2	BUR_BH125	0.2	21/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH125_0.5	BUR_BH125	0.5	21/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	-	-	-	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	-	<0.5	<0.5	<0.5	<0.5
BUR_BH125_5.0	BUR_BH125	5	21/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Statistical Summary																																						
Number of Results				49	54	49	54	54	54	54	49	54	49	54	5	5	5	54	54	54	54	54	54	54	54	54	54	54	49	54	54	5	54	49	54	54
Number of Detects				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration				0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	2.3	2.5	2.3	0.25	0.25	0.25	0.25	0.25	2.3	0.25	0.25	0.25	2.3	0.25	2.3	0.25	0.25	0.25	0.25	0.25	2.3	0.25	0.25	0.25	0.25	0.25	0.25
Median Concentration				0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	2.5	2.5	2.5	0.25	0.25	0.25	0.25	0.25	2.5	0.25	0.25	0.25	2.5	0.25	2.5	0.25	0.25	0.25	0.25	0.25	2.5	0.25	0.25	0.25	0.25	0.25	0.25
Standard Deviation				0	0	0	0	0	0	0	0	0.66	0	0.66	0	0	0	0	0	0.66	0	0	0	0.66	0	0.66	0	0	0	0	0	0.66	0	0	0	0	0	0
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

										SVOC				
				trans-1,2-dichloroethene	trans-1,3-dichloropropene	trans-1,4-Dichloro-2-butene	Trichlorofluoromethane	Vic EPA IWRG 621 CHC (Total)*	Vic EPA IWRG 621 Other CHC (Total)*	Vinyl acetate	Vinyl chloride	Demeton-O	Demeton-S	EPN	Fensulfothion	Hexachlorobutadiene
				mg/kg	mg/kg	mg/kg	mg/kg	MG/KG	MG/KG	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.5	0.5	0.5	0.5			5	0.5					0.5
CRC Care (2011) Direct Contact HSL D - Comm/Ind																
CRC Care (2011) Direct Contact Intrusive Maint. Worker																
CRC Care (2017) Ecological guideline - Commercial and industrial																
NEPM (1999) EIL - Commercial/Industrial																
NEPM (1999) ESL - Commercial/Industrial (fine)																
NEPM (1999) HIL D - Commercial/Industrial																
NEPM (1999) HSL D Comm/Indust - VI Clay 0 to <1 m																
NEPM (1999) HSL D Comm/Indust - VI Clay 1 to <2 m																
NEPM (1999) HSL D Comm/Indust - VI Clay 2 to <4 m																
NEPM (1999) HSL D Comm/Indust - VI Clay 4 m+																
NEPM (1999) Management Limits - Commercial/Industrial (fine)																
Field_ID	**LocCode**	**Sample_Depth (m)**	**Sampled_Date**													
BUR_BH101_0.1	BUR_BH101	0.1	21/12/2021	<0.5	<0.5	<0.5	<5	-	-	<5	<5	-	-	-	-	<0.5
BUR_BH101_2.0	BUR_BH101	2	21/12/2021	<0.5	<0.5	<0.5	<5	-	-	<5	<5	-	-	-	-	<0.5
BUR_BH102_0.2	BUR_BH102	0.2	16/12/2021	<0.5	<0.5	<0.5	<5	-	-	<5	<5	-	-	-	-	<0.5
BUR_BH102_2.0	BUR_BH102	2	16/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH103_0.1	BUR_BH103	0.1	16/12/2021	<0.5	<0.5	<0.5	<5	-	-	<5	<5	-	-	-	-	<0.5
D01_20211216	BUR_BH103	0.1	16/12/2021	<0.5	<0.5	<0.5	<5	-	-	<5	<5	-	-	-	-	<0.5
T01_20211216	BUR_BH103	0.1	16/12/2021	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	-
BUR_BH103_0.7	BUR_BH103	0.7	16/12/2021	<0.5	<0.5	<0.5	<5	-	-	<5	<5	-	-	-	-	<0.5
BUR_BH103_3.0	BUR_BH103	3	16/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH103_5.0	BUR_BH103	5	16/12/2021	<0.5	<0.5	<0.5	<5	-	-	<5	<5	-	-	-	-	<0.5
BUR_BH105_0.1	BUR_BH105	0.1	15/12/2021	<0.5	<0.5	<0.5	<5	-	-	<5	<5	-	-	-	-	<0.5
BUR_BH105_3.0	BUR_BH105	3	15/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH106_0.2	BUR_BH106	0.2	17/12/2021	<0.5	<0.5	<0.5	<5	-	-	<5	<5	-	-	-	-	<0.5
BUR_BH106_1.0	BUR_BH106	1	17/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH106_2.0	BUR_BH106	2	17/12/2021	<0.5	<0.5	<0.5	<5	-	-	<5	<5	-	-	-	-	<0.5
BUR_BH106_3.0	BUR_BH106	3	17/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH106_4.0	BUR_BH106	4	17/12/2021	<0.5	<0.5	<0.5	<5	-	-	<5	<5	-	-	-	-	<0.5
D02_20211217	BUR_BH106	4	17/12/2021	<0.5	<0.5	<0.5	<5	-	-	<5	<5	-	-	-	-	<0.5
TO2-20211217	BUR_BH106	4	17/12/2021	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.2	<0.2	<0.2	<0.2	-
BUR_BH106_5.0	BUR_BH106	5	17/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH107_0.2	BUR_BH107	0.2	17/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH107_1.0	BUR_BH107	1	17/12/2021	<0.5	<0.5	<0.5	<5	-	-	<5	<5	-	-	-	-	<0.5
BUR_BH107_3.0	BUR_BH107	3	17/12/2021	<0.5	<0.5	<0.5	<5	-	-	<5	<5	-	-	-	-	<0.5
D03_20211217	BUR_BH107	3	17/12/2021	<0.5	<0.5	<0.5	<5	-	-	<5	<5	-	-	-	-	<0.5
TO3-20211217	BUR_BH107	3	17/12/2021	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.2	<0.2	<0.2	<0.2	-
BUR_BH107_5.0	BUR_BH107	5	17/12/2021	<0.5	<0.5	<0.5	<5	-	-	<5	<5	-	-	-	-	<0.5
BUR_BH108_0.2	BUR_BH108	0.2	17/12/2021	<0.5	<0.5	<0.5	<5	-	-	<5	<5	-	-	-	-	<0.5
D04_20211217	BUR_BH108	0.2	17/12/2021	<0.5	<0.5	<0.5	<5	-	-	<5	<5	-	-	-	-	<0.5
TO4-20211217	BUR_BH108	0.2	17/12/2021	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.2	<0.2	<0.2	<0.2	-
BUR_BH108_0.5	BUR_BH108	0.5	17/12/2021	<0.5	<0.5	<0.5	<5	-	-	<5	<5	-	-	-	-	<0.5
BUR_BH108_2.0	BUR_BH108	2	17/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH108_5.8	BUR_BH108	5.8	17/12/2021	<0.5	<0.5	<0.5	<5	-	-	<5	<5	-	-	-	-	<0.5
BUR_BH108_11.0	BUR_BH108	11	17/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH108_17.0	BUR_BH108	17	17/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH108_20.0	BUR_BH108	20	17/12/2021	<0.5	<0.5	<0.5	<5	-	-	<5	<5	-	-	-	-	<0.5
BUR_BH109_0.2	BUR_BH109	0.2	20/12/2021	<0.5	<0.5	<0.5	<5	-	-	<5	<5	-	-	-	-	<0.5
BUR_BH109_0.5	BUR_BH109	0.5	20/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH109_1.0	BUR_BH109	1	20/12/2021	<0.5	<0.5	<0.5	<5	-	-	<5	<5	-	-	-	-	<0.5
BUR_BH109_3.0	BUR_BH109	3	20/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH110_0.2	BUR_BH110	0.2	20/12/2021	<0.5	<0.5	<0.5	<5	-	-	<5	<5	-	-	-	-	<0.5

									SVOC				
	trans-1,2-dichloroethene	trans-1,3-dichloropropene	trans-1,4-Dichloro-2-butene	Trichlorofluoromethane	Vic EPA IWRG 621 CHC (Total)*	Vic EPA IWRG 621 Other CHC (Total)*	Vinyl acetate	Vinyl chloride	Demeton-O	Demeton-S	EPN	Fensulfothion	Hexachlorobutadiene
	mg/kg	mg/kg	mg/kg	mg/kg	MG/KG	MG/KG	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.5	0.5	0.5	0.5			5	0.5					0.5
CRC Care (2011) Direct Contact HSL D - Comm/Ind													
CRC Care (2011) Direct Contact Intrusive Maint. Worker													
CRC Care (2017) Ecological guideline - Commercial and industrial													
NEPM (1999) EIL - Commercial/Industrial													
NEPM (1999) ESL - Commercial/Industrial (fine)													
NEPM (1999) HIL D - Commercial/Industrial													
NEPM (1999) HSL D Comm/Indust - VI Clay 0 to <1 m													
NEPM (1999) HSL D Comm/Indust - VI Clay 1 to <2 m													
NEPM (1999) HSL D Comm/Indust - VI Clay 2 to <4 m													
NEPM (1999) HSL D Comm/Indust - VI Clay 4 m+													
NEPM (1999) Management Limits - Commercial/Industrial (fine)													

Field_ID	LocCode	Sample_Depth (m)	Sampled_Date												
BUR_BH110_0.5	BUR_BH110	0.5	20/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH110_1.0	BUR_BH110	1	20/12/2021	<0.5	<0.5	<0.5	<5	-	-	<5	<5	-	-	-	-	<0.5
BUR_BH110_5.0	BUR_BH110	5	20/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH111_0.2	BUR_BH111	0.2	20/12/2021	<0.5	<0.5	<0.5	<5	-	-	<5	<5	-	-	-	-	<0.5
BUR_BH111_0.5	BUR_BH111	0.5	20/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-
D05_20211220	BUR_BH111	0.5	20/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-
T05-20211220	BUR_BH111	0.5	20/12/2021	-	-	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.2	-
BUR_BH111_2.0	BUR_BH111	2	20/12/2021	<0.5	<0.5	<0.5	<5	-	-	<5	<5	-	-	-	-	<0.5
BUR_BH111_5.0	BUR_BH111	5	20/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH112_0.2	BUR_BH112	0.2	21/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH112_0.5	BUR_BH112	0.5	21/12/2021	<0.5	<0.5	<0.5	<5	-	-	<5	<5	-	-	-	-	<0.5
BUR_BH112_5.0	BUR_BH112	5	21/12/2021	<0.5	<0.5	<0.5	<5	-	-	<5	<5	-	-	-	-	<0.5
BUR_BH113_0.2	BUR_BH113	0.2	20/12/2021	<0.5	<0.5	<0.5	<5	-	-	<5	<5	-	-	-	-	<0.5
BUR_BH113_1.0	BUR_BH113	1	20/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH113_2.0	BUR_BH113	2	20/12/2021	<0.5	<0.5	<0.5	<5	-	-	<5	<5	-	-	-	-	<0.5
D06__2021220	BUR_BH113	2	20/12/2021	<0.5	<0.5	<0.5	<5	-	-	<5	<5	-	-	-	-	<0.5
T06-20211220	BUR_BH113	2	20/12/2021	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.2	<0.2	<0.2	<0.2	-
BUR_BH113_5.0	BUR_BH113	5	20/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH114_0.2	BUR_BH114	0.2	20/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH114_0.5	BUR_BH114	0.5	20/12/2021	<0.5	<0.5	<0.5	<5	-	-	<5	<5	-	-	-	-	<0.5
BUR_BH114_5.0	BUR_BH114	5	20/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH114_10.0	BUR_BH114	10	20/12/2021	<0.5	<0.5	<0.5	<5	-	-	<5	<5	-	-	-	-	<0.5
BUR_BH114_15.0	BUR_BH114	15	20/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH115_0.2	BUR_BH115	0.2	21/12/2021	<0.5	<0.5	<0.5	<5	-	-	<5	<5	-	-	-	-	<0.5
BUR_BH115_0.5	BUR_BH115	0.5	21/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH115_1.0	BUR_BH115	1	21/12/2021	<0.5	<0.5	<0.5	<5	-	-	<5	<5	-	-	-	-	<0.5
BUR_BH115_5.0	BUR_BH115	5	21/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH115_10.0	BUR_BH115	10	21/12/2021	<0.5	<0.5	<0.5	<5	-	-	<5	<5	-	-	-	-	<0.5
BUR_BH115_15.0	BUR_BH115	15	21/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH116_0.2	BUR_BH116	0.2	21/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-
D07_20211221	BUR_BH116	0.2	21/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-
T07-20211221	BUR_BH116	0.2	21/12/2021	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	-
BUR_BH116_0.5	BUR_BH116	0.5	21/12/2021	<0.5	<0.5	<0.5	<5	-	-	<5	<5	-	-	-	-	<0.5
BUR_BH116_3.0	BUR_BH116	3	21/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH117_0.2	BUR_BH117	0.2	21/12/2021	<0.5	<0.5	<0.5	<5	-	-	<5	<5	-	-	-	-	<0.5
D08_20211221	BUR_BH117	0.2	21/12/2021	<0.5	<0.5	<0.5	<5	-	-	<5	<5	-	-	-	-	<0.5
BUR_BH117_1.0	BUR_BH117	1	21/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH117_3.0	BUR_BH117	3	21/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH118_0.25	BUR_BH118	0.25	16/12/2021	<0.5	<0.5	<0.5	<5	-	-	<5	<5	-	-	-	-	<0.5
BUR_BH118_1.5	BUR_BH118	1.5	16/12/2021	<0.5	<0.5	<0.5	<5	-	-	<5	<5	-	-	-	-	<0.5

										SVOC				
				trans-1,2-dichloroethene	trans-1,3-dichloropropene	trans-1,4-Dichloro-2-butene	Trichlorofluoromethane	Vic EPA IWRG 621 CHC (Total)*	Vic EPA IWRG 621 Other CHC (Total)*	Vinyl acetate	Vinyl chloride	Demeton-O	Demeton-S	EPN	Fensulfothion	Hexachlorobutadiene
				mg/kg	mg/kg	mg/kg	mg/kg	MG/KG	MG/KG	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.5	0.5	0.5	0.5			5	0.5					0.5
CRC Care (2011) Direct Contact HSL D - Comm/Ind																
CRC Care (2011) Direct Contact Intrusive Maint. Worker																
CRC Care (2017) Ecological guideline - Commercial and industrial																
NEPM (1999) EIL - Commercial/Industrial																
NEPM (1999) ESL - Commercial/Industrial (fine)																
NEPM (1999) HIL D - Commercial/Industrial																
NEPM (1999) HSL D Comm/Indust - VI Clay 0 to <1 m																
NEPM (1999) HSL D Comm/Indust - VI Clay 1 to <2 m																
NEPM (1999) HSL D Comm/Indust - VI Clay 2 to <4 m																
NEPM (1999) HSL D Comm/Indust - VI Clay 4 m+																
NEPM (1999) Management Limits - Commercial/Industrial (fine)																
Field_ID	**LocCode**	**Sample_Depth (m)**	**Sampled_Date**													
BUR_BH119_0.25	BUR_BH119	0.25	16/12/2021	<0.5	<0.5	<0.5	<5	-	-	<5	<5	-	-	-	-	<0.5
BUR_BH119_1.0	BUR_BH119	1	16/12/2021	<0.5	<0.5	<0.5	<5	-	-	<5	<5	-	-	-	-	<0.5
BUR_BH120_0.2	BUR_BH120	0.2	17/12/2021	<0.5	<0.5	<0.5	<5	-	-	<5	<5	-	-	-	-	<0.5
BUR_BH120_0.5	BUR_BH120	0.5	17/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH121_0.16	BUR_BH121	0.16	18/01/2022	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH122_0.13	BUR_BH122	0.13	18/01/2022	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH122_0.3	BUR_BH122	0.3	18/01/2022	<0.5	<0.5	<0.5	<5	-	-	<5	<5	-	-	-	-	<0.5
BUR_BH122_0.7	BUR_BH122	0.7	18/01/2022	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH123_0.12	BUR_BH123	0.12	18/01/2022	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH123_0.3	BUR_BH123	0.3	18/01/2022	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH123_1.0	BUR_BH123	1	18/01/2022	<0.5	<0.5	<0.5	<5	-	-	<5	<5	-	-	-	-	<0.5
BUR_BH124_0.15	BUR_BH124	0.15	18/01/2022	<0.5	<0.5	<0.5	<5	-	-	<5	<5	-	-	-	-	<0.5
BUR_BH125_0.2	BUR_BH125	0.2	21/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH125_0.5	BUR_BH125	0.5	21/12/2021	<0.5	<0.5	<0.5	<5	-	-	<5	<5	-	-	-	-	<0.5
BUR_BH125_5.0	BUR_BH125	5	21/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-
Statistical Summary																
Number of Results				54	54	49	54	5	5	49	54	7	7	7	7	49
Number of Detects				0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.5
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration				<0.5	<0.5	<0.5	<5	<0.5	<0.5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration				0.25	0.25	0.25	2.3	0.25	0.25	2.5	2.3	0.14	0.14	0.14	0.14	0.25
Median Concentration				0.25	0.25	0.25	2.5	0.25	0.25	2.5	2.5	0.1	0.1	0.1	0.1	0.25
Standard Deviation				0	0	0	0.66	0	0	0	0.66	0.073	0.073	0.073	0.073	0
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0

				Per- and Polyfluoroalkyl Subst																						PFAS				PFOS and PFOA									
				10:2 Fluorotelomer sulfonic acid (10:2 FTS)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (Et	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE	N-Methyl perfluorooctane sulfonamide (MeFOSA)	N-Methyl perfluorooctane sulfonamidoacetic acid (M	N-Methyl perfluorooctane sulfonamidoethanol (MeFOS	Perfluorobutanoic acid (PFBA)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorooctane sulfonic acid (PFOS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluoropentanoic acid (PFPeA)	Perfluorooctanoic acid (PFOA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorotridecanoic acid (PFTrDA)	Sum of PFAS	Sum of PFAS (WA DER List)	Sum of PFHxS and PFOS	Perfluorononanesulfonic acid (PFNS)	Perfluoropropanesulfonic acid (PFPrS)	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	Sum of US EPA PFAS (PFOS + PFOA)*	Perfluorobutanesulfonic acid (PFBS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorodecanoic acid (PFDA)	Perfluorohexanesulfonic acid (PFHxS)	Perfluorododecanoic acid (PFDoA)	Perfluoroheptanoic acid (PFHpA)	Perfluorohexanoic acid (PFHxA)	Perfluorononanoic acid (PFNA)	Perfluorooctanesulfonamide (PFOSA)	Perfluoroundecanoic acid (PFUnA)
				µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	UG/KG	UG/KG	UG/KG	UG/KG	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
EQL				0.5	0.5	0.5	0.5	0.5	0.2	0.5	0.5	0.2	0.5	1	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.2	0.2	0.2	0.2					0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
NEMP (2020) Ecological (direct exposure)																1000			10000																			
NEMP (2020) Ecological (indirect exposure)																10																						
NEMP (2020) HIL D - Industrial/ commercial																20000			50000						20000													
Field_ID	**LocCode**	**Sample_Depth (m)**	**Sampled_Date**																																				
BUR_BH101_0.1	BUR_BH101	0.1	21/12/2021	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	-	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BUR_BH102_0.2	BUR_BH102	0.2	16/12/2021	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	-	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BUR_BH103_0.1	BUR_BH103	0.1	16/12/2021	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	-	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BUR_BH103_5.0	BUR_BH103	5	16/12/2021	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	-	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BUR_BH105_0.1	BUR_BH105	0.1	15/12/2021	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	-	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BUR_BH106_0.2	BUR_BH106	0.2	17/12/2021	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	-	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BUR_BH106_4.0	BUR_BH106	4	17/12/2021	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	-	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BUR_BH107_0.2	BUR_BH107	0.2	17/12/2021	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	-	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BUR_BH107_3.0	BUR_BH107	3	17/12/2021	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	-	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BUR_BH108_0.2	BUR_BH108	0.2	17/12/2021	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	-	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BUR_BH108_0.5	BUR_BH108	0.5	17/12/2021	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	-	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BUR_BH108_20.0	BUR_BH108	20	17/12/2021	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	-	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BUR_BH109_0.2	BUR_BH109	0.2	20/12/2021	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	-	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BUR_BH109_3.0	BUR_BH109	3	20/12/2021	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	-	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BUR_BH110_0.2	BUR_BH110	0.2	20/12/2021	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	-	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BUR_BH110_5.0	BUR_BH110	5	20/12/2021	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	-	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BUR_BH111_0.5	BUR_BH111	0.5	20/12/2021	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	-	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BUR_BH111_5.0	BUR_BH111	5	20/12/2021	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	-	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BUR_BH112_0.2	BUR_BH112	0.2	21/12/2021	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	-	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BUR_BH112_5.0	BUR_BH112	5	21/12/2021	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	-	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BUR_BH113_0.2	BUR_BH113	0.2	20/12/2021	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	-	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BUR_BH113_5.0	BUR_BH113	5	20/12/2021	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	-	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BUR_BH114_0.2	BUR_BH114	0.2	20/12/2021	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	-	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BUR_BH114_15.0	BUR_BH114	15	20/12/2021	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	-	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BUR_BH115_0.2	BUR_BH115	0.2	21/12/2021	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	-	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BUR_BH115_15.0	BUR_BH115	15	21/12/2021	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	-	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BUR_BH116_0.2	BUR_BH116	0.2	21/12/2021	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	-	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BUR_BH116_3.0	BUR_BH116	3	21/12/2021	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	-	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BUR_BH117_0.2	BUR_BH117	0.2	21/12/2021	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	-	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BUR_BH117_3.0	BUR_BH117	3	21/12/2021	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	-	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BUR_BH118_0.25	BUR_BH118	0.25	16/12/2021	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	-	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BUR_BH119_0.25	BUR_BH119	0.25	16/12/2021	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	-	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BUR_BH120_0.5	BUR_BH120	0.5	17/12/2021	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	-	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BUR_BH121_0.16	BUR_BH121	0.16	18/01/2022	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<0.2	<0.5	<1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
BUR_BH123_1.0	BUR_BH123	1	18/01/2022	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<0.2	<0.5	<1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
BUR_BH125_0.2	BUR_BH125	0.2	21/12/2021	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	-	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BUR_BH125_5.0	BUR_BH125	5	21/12/2021	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	-	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
D01_20211216	BUR_BH103	0.1	16/12/2021	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	-	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
D02_20211217	BUR_BH106	4	17/12/2021	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	-	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
D03_20211217	BUR_BH107	3	17/12/2021	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	-	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
D04_20211217	BUR_BH108	0.2	17/12/2021	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	-	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
D05_20211220	BUR_BH111	0.5	20/12/2021	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	-	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
D07_20211221	BUR_BH116	0.2	21/12/2021	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	-	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
D08_20211221	BUR_BH117	0.2	21/12/2021	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	-	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5

				Per- and Polyfluoroalkyl Subst																						PFAS				PFOS and PFOA									
				10:2 Fluorotelomer sulfonic acid (10:2 FTS)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (Et	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE	N-Methyl perfluorooctane sulfonamide (MeFOSA)	N-Methyl perfluorooctane sulfonamidoacetic acid (M	N-Methyl perfluorooctane sulfonamidoethanol (MeFOS	Perfluorobutanoic acid (PFBA)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorooctane sulfonic acid (PFOS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluoropentanoic acid (PFPeA)	Perfluorooctanoic acid (PFOA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorotridecanoic acid (PFTrDA)	Sum of PFAS	Sum of PFAS (WA DER List)	Sum of PFHxS and PFOS	Perfluorononanesulfonic acid (PFNS)	Perfluoropropanesulfonic acid (PFPrS)	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	Sum of US EPA PFAS (PFOS + PFOA)*	Perfluorobutanesulfonic acid (PFBS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorodecanoic acid (PFDA)	Perfluorohexanesulfonic acid (PFHxS)	Perfluorododecanoic acid (PFDoA)	Perfluoroheptanoic acid (PFHpA)	Perfluorohexanoic acid (PFHxA)	Perfluorononanoic acid (PFNA)	Perfluorooctanesulfonamide (PFOSA)	Perfluoroundecanoic acid (PFUnA)
				µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	UG/KG	UG/KG	UG/KG	UG/KG	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
EQL				0.5	0.5	0.5	0.5	0.5	0.2	0.5	0.5	0.2	0.5	1	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.2	0.2	0.2	0.2					0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
NEMP (2020) Ecological (direct exposure)																1000			10000																			
NEMP (2020) Ecological (indirect exposure)																10																						
NEMP (2020) HIL D - Industrial/ commercial																20000			50000					20000									20000					
Field_ID	**LocCode**	**Sample_Depth (m)**	**Sampled_Date**																																			
T01_20211216	BUR_BH103	0.1	16/12/2021	<5	<5	<10	<5	<5	<10	<5	<5	<10	<5	<5	<5	8.2[#1]	<5	<5	<5	<5	<5	<5	<50	<10	8.2	<5	<5	8.2	8.2	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
T05-20211220	BUR_BH111	0.5	20/12/2021	<5	<5	<10	<5	<5	<10	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
T07-20211221	BUR_BH116	0.2	21/12/2021	<5	<5	<10	<5	<5	<10	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
T08-20211221	BUR_BH117	0.2	21/12/2021	<5	<5	<10	<5	<5	<10	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
TO2-20211217	BUR_BH106	4	17/12/2021	<5	<5	<10	<5	<5	<10	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
TO3-20211217	BUR_BH107	3	17/12/2021	<5	<5	<10	<5	<5	<10	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
TO4-20211217	BUR_BH108	0.2	17/12/2021	<5	<5	<10	<5	<5	<10	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Statistical Summary																																						
Number of Results				51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	7	7	7	7	51	51	51	51	51	51	51	51	51	51
Number of Detects				0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
Minimum Concentration				<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<0.2	<0.5	<1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<5	<5	<5	<5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.2	ND	ND	ND	ND	ND	ND	ND	ND	8.2	ND	ND	8.2	8.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration				<5	<5	<10	<5	<5	<10	<5	<5	<10	<5	<5	<5	8.2	<5	<5	<5	<5	<5	<5	<50	<10	8.2	<5	<5	8.2	8.2	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.2	ND	ND	ND	ND	ND	ND	ND	ND	8.2	ND	ND	8.2	8.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration				2.4	2.4	2.8	2.4	2.4	2.7	2.4	2.4	2.7	2.4	2.4	2.4	2.5	2.4	2.4	2.4	2.4	2.4	5.5	2.7	2.5	2.5	2.5	3.3	3.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Median Concentration				2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Standard Deviation				0.44	0.44	1	0.44	0.44	1	0.44	0.44	1	0.44	0.39	0.47	0.94	0.47	0.47	0.47	0.47	0.44	0.47	7.9	1	0.94	0	0	2.2	2.2	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Data Comments

#1 Quantification of linear and branched isomers has been conducted as a single total response using the relative response factor for the corresponding linear/branched standard.

ERM

Table 1d. Soil Analytical Result s - PCBs and Pesticides
Burwood Station Construction Site
SMW_Burwood - 0628507

				PCBs								OCP		OCs	OPs																				
				Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs (Sum of total)	Vic EPA IWRG 621 OCP (Total)*	Vic EPA IWRG 621 Other OCP (Total)*	Toxaphene	Mevinphos (Phosdrin)	Naled (Dibrom)	Omethoate	Pirimiphos-methyl	Pyrazophos	Terbufos	Tokuthion	Tetrachlorvinphos	Trichloronate	4,4-DDE	a-BHC	Aldrin	Aldrin + Dieldrin	Azinophos methyl	b-BHC	Bromophos-ethyl	Carbophenothion	Chlordane	Chlordane (cis)	Chlordane (trans)	Chlorfenvinphos
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	MG/KG	MG/KG	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL											0.1													0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
CRC Care (2011) Direct Contact HSL D - Comm/Ind																																			
CRC Care (2011) Direct Contact Intrusive Maint. Worker																																			
CRC Care (2017) Ecological guideline - Commercial and industrial																																			
NEPM (1999) EIL - Commercial/Industrial																																			
NEPM (1999) ESL - Commercial/Industrial (fine)																																			
NEPM (1999) HIL D - Commercial/Industrial											7			160												45					530			
NEPM (1999) HSL D Comm/Indust - VI Clay 0 to <1 m																																			
NEPM (1999) HSL D Comm/Indust - VI Clay 1 to <2 m																																			
NEPM (1999) HSL D Comm/Indust - VI Clay 2 to <4 m																																			
NEPM (1999) HSL D Comm/Indust - VI Clay 4 m+																																			
NEPM (1999) Management Limits - Commercial/Industrial (fine)																																			
Field_ID	**LocCode**	**Sample_Depth (m)**	**Sampled_Date**																																
BUR_BH101_0.1	BUR_BH101	0.1	21/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH101_2.0	BUR_BH101	2	21/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH102_0.2	BUR_BH102	0.2	16/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH102_2.0	BUR_BH102	2	16/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH103_0.1	BUR_BH103	0.1	16/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
D01_20211216	BUR_BH103	0.1	16/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
T01_20211216	BUR_BH103	0.1	16/12/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<1	-	-	<0.5
BUR_BH103_0.7	BUR_BH103	0.7	16/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH103_3.0	BUR_BH103	3	16/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH103_5.0	BUR_BH103	5	16/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH105_0.1	BUR_BH105	0.1	15/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH105_3.0	BUR_BH105	3	15/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH106_0.2	BUR_BH106	0.2	17/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH106_1.0	BUR_BH106	1	17/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH106_2.0	BUR_BH106	2	17/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH106_3.0	BUR_BH106	3	17/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH106_4.0	BUR_BH106	4	17/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
D02_20211217	BUR_BH106	4	17/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TO2-20211217	BUR_BH106	4	17/12/2021	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	-	-	<0.1	-	-	<0.2
BUR_BH106_5.0	BUR_BH106	5	17/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH107_0.2	BUR_BH107	0.2	17/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH107_1.0	BUR_BH107	1	17/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH107_3.0	BUR_BH107	3	17/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
D03_20211217	BUR_BH107	3	17/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TO3-20211217	BUR_BH107	3	17/12/2021	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	-	-	<0.1	-	-	<0.2
BUR_BH107_5.0	BUR_BH107	5	17/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH108_0.2	BUR_BH108	0.2	17/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
D04_20211217	BUR_BH108	0.2	17/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TO4-20211217	BUR_BH108	0.2	17/12/2021	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	-	-	<0.1	-	-	<0.2
BUR_BH108_0.5	BUR_BH108	0.5	17/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH108_2.0	BUR_BH108	2	17/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH108_5.8	BUR_BH108	5.8	17/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH108_11.0	BUR_BH108	11	17/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH108_17.0	BUR_BH108	17	17/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH108_20.0	BUR_BH108	20	17/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH109_0.2	BUR_BH109	0.2	20/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH109_0.5	BUR_BH109	0.5	20/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH109_1.0	BUR_BH109	1	20/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH109_3.0	BUR_BH109	3	20/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH110_0.2	BUR_BH110	0.2	20/12/2021	-	-	-	-	-	-	-	0.3	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH110_0.5	BUR_BH110	0.5	20/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH110_1.0	BUR_BH110	1	20/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

				PCBs								OCP		OCs	OPs																				
				Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs (Sum of total)	Vic EPA IWRG 621 OCP (Total)*	Vic EPA IWRG 621 Other OCP (Total)*	Toxaphene	Mevinphos (Phosdrin)	Naled (Dibrom)	Omethoate	Pirimiphos-methyl	Pyrazophos	Terbufos	Tokuthion	Tetrachlorvinphos	Trichloronate	4,4-DDE	a-BHC	Aldrin	Aldrin + Dieldrin	Azinophos methyl	b-BHC	Bromophos-ethyl	Carbophenothion	Chlordane	Chlordane (cis)	Chlordane (trans)	Chlorfenvinphos
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	MG/KG	MG/KG	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL											0.1													0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
CRC Care (2011) Direct Contact HSL D - Comm/Ind																																			
CRC Care (2011) Direct Contact Intrusive Maint. Worker																																			
CRC Care (2017) Ecological guideline - Commercial and industrial																																			
NEPM (1999) EIL - Commercial/Industrial																																			
NEPM (1999) ESL - Commercial/Industrial (fine)																																			
NEPM (1999) HIL D - Commercial/Industrial											7			160												45					530				
NEPM (1999) HSL D Comm/Indust - VI Clay 0 to <1 m																																			
NEPM (1999) HSL D Comm/Indust - VI Clay 1 to <2 m																																			
NEPM (1999) HSL D Comm/Indust - VI Clay 2 to <4 m																																			
NEPM (1999) HSL D Comm/Indust - VI Clay 4 m+																																			
NEPM (1999) Management Limits - Commercial/Industrial (fine)																																			
Field_ID	**LocCode**	**Sample_Depth (m)**	**Sampled_Date**																																
BUR_BH110_5.0	BUR_BH110	5	20/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH111_0.2	BUR_BH111	0.2	20/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH111_0.5	BUR_BH111	0.5	20/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
D05_20211220	BUR_BH111	0.5	20/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
T05-20211220	BUR_BH111	0.5	20/12/2021	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	-	-	<0.1	-	-	<0.2
BUR_BH111_2.0	BUR_BH111	2	20/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH111_5.0	BUR_BH111	5	20/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH112_0.2	BUR_BH112	0.2	21/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH112_0.5	BUR_BH112	0.5	21/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH112_5.0	BUR_BH112	5	21/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH113_0.2	BUR_BH113	0.2	20/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH113_1.0	BUR_BH113	1	20/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH113_2.0	BUR_BH113	2	20/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
D06__2021220	BUR_BH113	2	20/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
T06-20211220	BUR_BH113	2	20/12/2021	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	-	-	<0.1	-	-	<0.2
BUR_BH113_5.0	BUR_BH113	5	20/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH114_0.2	BUR_BH114	0.2	20/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH114_0.5	BUR_BH114	0.5	20/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH114_5.0	BUR_BH114	5	20/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH114_10.0	BUR_BH114	10	20/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH114_15.0	BUR_BH114	15	20/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH115_0.2	BUR_BH115	0.2	21/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH115_0.5	BUR_BH115	0.5	21/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH115_1.0	BUR_BH115	1	21/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH115_5.0	BUR_BH115	5	21/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH115_10.0	BUR_BH115	10	21/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH115_15.0	BUR_BH115	15	21/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH116_0.2	BUR_BH116	0.2	21/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
D07_20211221	BUR_BH116	0.2	21/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
T07-20211221	BUR_BH116	0.2	21/12/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<1	-	-	<0.5
BUR_BH116_0.5	BUR_BH116	0.5	21/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH116_3.0	BUR_BH116	3	21/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH117_0.2	BUR_BH117	0.2	21/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.07	<0.05	0.07	<0.05
D08_20211221	BUR_BH117	0.2	21/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH117_1.0	BUR_BH117	1	21/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH117_3.0	BUR_BH117	3	21/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH118_0.25	BUR_BH118	0.25	16/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH118_1.5	BUR_BH118	1.5	16/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH119_0.25	BUR_BH119	0.25	16/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH119_1.0	BUR_BH119	1	16/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH120_0.2	BUR_BH120	0.2	17/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH120_0.5	BUR_BH120	0.5	17/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

	PCBs								OCP		OCs	OPs																				
	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs (Sum of total)	Vic EPA IWRG 621 OCP (Total)*	Vic EPA IWRG 621 Other OCP (Total)*	Toxaphene	Mevinphos (Phosdrin)	Naled (Dibrom)	Omethoate	Pirimiphos-methyl	Pyrazophos	Terbufos	Tokuthion	Tetrachlorvinphos	Trichloronate	4,4-DDE	a-BHC	Aldrin	Aldrin + Dieldrin	Azinophos methyl	b-BHC	Bromophos-ethyl	Carbophenothion	Chlordane	Chlordane (cis)	Chlordane (trans)	Chlorfenvinphos
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	MG/KG	MG/KG	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL								0.1														0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
CRC Care (2011) Direct Contact HSL D - Comm/Ind																																
CRC Care (2011) Direct Contact Intrusive Maint. Worker																																
CRC Care (2017) Ecological guideline - Commercial and industrial																																
NEPM (1999) EIL - Commercial/Industrial																																
NEPM (1999) ESL - Commercial/Industrial (fine)																																
NEPM (1999) HIL D - Commercial/Industrial								7			160													45					530			
NEPM (1999) HSL D Comm/Indust - VI Clay 0 to <1 m																																
NEPM (1999) HSL D Comm/Indust - VI Clay 1 to <2 m																																
NEPM (1999) HSL D Comm/Indust - VI Clay 2 to <4 m																																
NEPM (1999) HSL D Comm/Indust - VI Clay 4 m+																																
NEPM (1999) Management Limits - Commercial/Industrial (fine)																																
Field_ID	**LocCode**	**Sample_Depth (m)**	**Sampled_Date**																														
BUR_BH121_0.16	BUR_BH121	0.16	18/01/2022	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH122_0.13	BUR_BH122	0.13	18/01/2022	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH122_0.3	BUR_BH122	0.3	18/01/2022	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH122_0.7	BUR_BH122	0.7	18/01/2022	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH123_0.12	BUR_BH123	0.12	18/01/2022	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH123_0.3	BUR_BH123	0.3	18/01/2022	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH123_1.0	BUR_BH123	1	18/01/2022	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH124_0.15	BUR_BH124	0.15	18/01/2022	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH125_0.2	BUR_BH125	0.2	21/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH125_0.5	BUR_BH125	0.5	21/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BUR_BH125_5.0	BUR_BH125	5	21/12/2021	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Statistical Summary																																
Number of Results				7	7	7	7	7	7	7	94	7	7	7	7	7	7	7	7	7	7	7	94	94	94	94	94	94	87	87	94	87	87	94
Number of Detects				0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	1	0	1	0
Minimum Concentration				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.1	ND	ND	ND	ND	ND	ND	ND	0.07	ND	0.07	ND
Maximum Concentration				<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<1	<0.05	0.07	<0.5
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.1	ND	ND	ND	ND	ND	ND	ND	0.07	ND	0.07	ND
Average Concentration				0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.062	0.18	0.18	1.6	0.14	0.14	1.4	0.14	0.14	0.14	0.14	0.14	0.031	0.03	0.03	0.03	0.034	0.03	0.025	0.025	0.037	0.025	0.026	0.034
Median Concentration				0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.25	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
Standard Deviation				0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.07	0.22	0.22	2.3	0.073	0.073	0.73	0.073	0.073	0.073	0.073	0.073	0.034	0.033	0.033	0.033	0.036	0.033	0	0	0.069	0	0.0048	0.036
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

				Pesticides																																	
				Chlorpyrifos	Chlorpyrifos-methyl	Coumaphos	d-BHC	DDD	DDT	DDT+DDE+DDD	Demeton-S-methyl	Diazinon	Dichlorvos	Dieldrin	Dimethoate	Disulfoton	Endosulfan	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	Ethion	Ethoprop	Fenamiphos	Fenitrothion	Fenthion	g-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Hexachlorobenzene	Malathion	Methoxychlor	Methyl parathion	Monocrotophos
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.05	0.05		0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.2	0.2
CRC Care (2011) Direct Contact HSL D - Comm/Ind																																					
CRC Care (2011) Direct Contact Intrusive Maint. Worker																																					
CRC Care (2017) Ecological guideline - Commercial and industrial																																					
NEPM (1999) EIL - Commercial/Industrial									640																												
NEPM (1999) ESL - Commercial/Industrial (fine)																																					
NEPM (1999) HIL D - Commercial/Industrial				2000						3600							2000				100									50		80		2500		
NEPM (1999) HSL D Comm/Indust - VI Clay 0 to <1 m																																					
NEPM (1999) HSL D Comm/Indust - VI Clay 1 to <2 m																																					
NEPM (1999) HSL D Comm/Indust - VI Clay 2 to <4 m																																					
NEPM (1999) HSL D Comm/Indust - VI Clay 4 m+																																					
NEPM (1999) Management Limits - Commercial/Industrial (fine)																																					
Field_ID	**LocCode**	**Sample_Depth (m)**	**Sampled_Date**																																		
BUR_BH101_0.1	BUR_BH101	0.1	21/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH101_2.0	BUR_BH101	2	21/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BUR_BH102_0.2	BUR_BH102	0.2	16/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH102_2.0	BUR_BH102	2	16/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH103_0.1	BUR_BH103	0.1	16/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	0.1	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
D01_20211216	BUR_BH103	0.1	16/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	0.1	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
T01_20211216	BUR_BH103	0.1	16/12/2021	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5
BUR_BH103_0.7	BUR_BH103	0.7	16/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH103_3.0	BUR_BH103	3	16/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH103_5.0	BUR_BH103	5	16/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH105_0.1	BUR_BH105	0.1	15/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH105_3.0	BUR_BH105	3	15/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH106_0.2	BUR_BH106	0.2	17/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH106_1.0	BUR_BH106	1	17/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH106_2.0	BUR_BH106	2	17/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH106_3.0	BUR_BH106	3	17/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH106_4.0	BUR_BH106	4	17/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
D02_20211217	BUR_BH106	4	17/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
TO2-20211217	BUR_BH106	4	17/12/2021	<0.2	<0.2	<2	<0.05	<0.05	<0.05	<0.05	-	<0.2	<0.2	<0.05	<0.2	<0.2	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	-	<0.2	<0.2	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.2	<2
BUR_BH106_5.0	BUR_BH106	5	17/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH107_0.2	BUR_BH107	0.2	17/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH107_1.0	BUR_BH107	1	17/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH107_3.0	BUR_BH107	3	17/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
D03_20211217	BUR_BH107	3	17/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
TO3-20211217	BUR_BH107	3	17/12/2021	<0.2	<0.2	<2	<0.05	<0.05	<0.05	<0.05	-	<0.2	<0.2	<0.05	<0.2	<0.2	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	-	<0.2	<0.2	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.2	<2
BUR_BH107_5.0	BUR_BH107	5	17/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH108_0.2	BUR_BH108	0.2	17/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
D04_20211217	BUR_BH108	0.2	17/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
TO4-20211217	BUR_BH108	0.2	17/12/2021	<0.2	<0.2	<2	<0.05	<0.05	<0.05	<0.05	-	<0.2	<0.2	<0.05	<0.2	<0.2	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	-	<0.2	<0.2	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.2	<2
BUR_BH108_0.5	BUR_BH108	0.5	17/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH108_2.0	BUR_BH108	2	17/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH108_5.8	BUR_BH108	5.8	17/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH108_11.0	BUR_BH108	11	17/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH108_17.0	BUR_BH108	17	17/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH108_20.0	BUR_BH108	20	17/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH109_0.2	BUR_BH109	0.2	20/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH109_0.5	BUR_BH109	0.5	20/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH109_1.0	BUR_BH109	1	20/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH109_3.0	BUR_BH109	3	20/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH110_0.2	BUR_BH110	0.2	20/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH110_0.5	BUR_BH110	0.5	20/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH110_1.0	BUR_BH110	1	20/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2

				Pesticides																																		
				Chlorpyrifos	Chlorpyrifos-methyl	Coumaphos	d-BHC	DDD	DDT	DDT+DDE+DDD	Demeton-S-methyl	Diazinon	Dichlorvos	Dieldrin	Dimethoate	Disulfoton	Endosulfan	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	Ethion	Ethoprop	Fenamiphos	Fenitrothion	Fenthion	g-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Hexachlorobenzene	Malathion	Methoxychlor	Methyl parathion	Monocrotophos
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.05	0.05		0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05		0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.2	0.2
CRC Care (2011) Direct Contact HSL D - Comm/Ind																																						
CRC Care (2011) Direct Contact Intrusive Maint. Worker																																						
CRC Care (2017) Ecological guideline - Commercial and industrial																																						
NEPM (1999) EIL - Commercial/Industrial									640																													
NEPM (1999) ESL - Commercial/Industrial (fine)																																						
NEPM (1999) HIL D - Commercial/Industrial				2000						3600							2000				100									50		80		2500			
NEPM (1999) HSL D Comm/Indust - VI Clay 0 to <1 m																																						
NEPM (1999) HSL D Comm/Indust - VI Clay 1 to <2 m																																						
NEPM (1999) HSL D Comm/Indust - VI Clay 2 to <4 m																																						
NEPM (1999) HSL D Comm/Indust - VI Clay 4 m+																																						
NEPM (1999) Management Limits - Commercial/Industrial (fine)																																						
Field_ID	**LocCode**	**Sample_Depth (m)**	**Sampled_Date**																																			
BUR_BH110_5.0	BUR_BH110	5	20/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH111_0.2	BUR_BH111	0.2	20/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH111_0.5	BUR_BH111	0.5	20/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
D05_20211220	BUR_BH111	0.5	20/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
T05-20211220	BUR_BH111	0.5	20/12/2021	<0.2	<0.2	<2	<0.05	<0.05	<0.05	<0.05	-	<0.2	<0.2	<0.05	<0.2	<0.2	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	-	<0.2	<0.2	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.2	<2
BUR_BH111_2.0	BUR_BH111	2	20/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH111_5.0	BUR_BH111	5	20/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH112_0.2	BUR_BH112	0.2	21/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH112_0.5	BUR_BH112	0.5	21/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH112_5.0	BUR_BH112	5	21/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH113_0.2	BUR_BH113	0.2	20/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH113_1.0	BUR_BH113	1	20/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH113_2.0	BUR_BH113	2	20/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
D06__2021220	BUR_BH113	2	20/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
T06-20211220	BUR_BH113	2	20/12/2021	<0.2	<0.2	<2	<0.05	<0.05	<0.05	<0.05	-	<0.2	<0.2	<0.05	<0.2	<0.2	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	-	<0.2	<0.2	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.2	<2
BUR_BH113_5.0	BUR_BH113	5	20/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH114_0.2	BUR_BH114	0.2	20/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH114_0.5	BUR_BH114	0.5	20/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH114_5.0	BUR_BH114	5	20/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH114_10.0	BUR_BH114	10	20/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH114_15.0	BUR_BH114	15	20/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH115_0.2	BUR_BH115	0.2	21/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH115_0.5	BUR_BH115	0.5	21/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH115_1.0	BUR_BH115	1	21/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH115_5.0	BUR_BH115	5	21/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH115_10.0	BUR_BH115	10	21/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH115_15.0	BUR_BH115	15	21/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH116_0.2	BUR_BH116	0.2	21/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
D07_20211221	BUR_BH116	0.2	21/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
T07-20211221	BUR_BH116	0.2	21/12/2021	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5
BUR_BH116_0.5	BUR_BH116	0.5	21/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH116_3.0	BUR_BH116	3	21/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH117_0.2	BUR_BH117	0.2	21/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
D08_20211221	BUR_BH117	0.2	21/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH117_1.0	BUR_BH117	1	21/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH117_3.0	BUR_BH117	3	21/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH118_0.25	BUR_BH118	0.25	16/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH118_1.5	BUR_BH118	1.5	16/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH119_0.25	BUR_BH119	0.25	16/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH119_1.0	BUR_BH119	1	16/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH120_0.2	BUR_BH120	0.2	17/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH120_0.5	BUR_BH120	0.5	17/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2

				Pesticides																																				
				Chlorpyrifos	Chlorpyrifos-methyl	Coumaphos	d-BHC	DDD	DDT	DDT+DDE+DDD	Demeton-S-methyl	Diazinon	Dichlorvos	Dieldrin	Dimethoate	Disulfoton	Endosulfan	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	Ethion	Ethoprop	Fenamiphos	Fenitrothion	Fenthion	g-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Hexachlorobenzene	Malathion	Methoxychlor	Methyl parathion	Monocrotophos
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.05	0.05		0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05		0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05		0.05		0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.2	0.2
CRC Care (2011) Direct Contact HSL D - Comm/Ind																																								
CRC Care (2011) Direct Contact Intrusive Maint. Worker																																								
CRC Care (2017) Ecological guideline - Commercial and industrial																																								
NEPM (1999) EIL - Commercial/Industrial									640																															
NEPM (1999) ESL - Commercial/Industrial (fine)																																								
NEPM (1999) HIL D - Commercial/Industrial				2000						3600							2000				100								50		80		2500						
NEPM (1999) HSL D Comm/Indust - VI Clay 0 to <1 m																																								
NEPM (1999) HSL D Comm/Indust - VI Clay 1 to <2 m																																								
NEPM (1999) HSL D Comm/Indust - VI Clay 2 to <4 m																																								
NEPM (1999) HSL D Comm/Indust - VI Clay 4 m+																																								
NEPM (1999) Management Limits - Commercial/Industrial (fine)																																								
Field_ID	**LocCode**	**Sample_Depth (m)**	**Sampled_Date**																																					
BUR_BH121_0.16	BUR_BH121	0.16	18/01/2022	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH122_0.13	BUR_BH122	0.13	18/01/2022	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH122_0.3	BUR_BH122	0.3	18/01/2022	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH122_0.7	BUR_BH122	0.7	18/01/2022	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH123_0.12	BUR_BH123	0.12	18/01/2022	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH123_0.3	BUR_BH123	0.3	18/01/2022	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH123_1.0	BUR_BH123	1	18/01/2022	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH124_0.15	BUR_BH124	0.15	18/01/2022	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH125_0.2	BUR_BH125	0.2	21/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH125_0.5	BUR_BH125	0.5	21/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
BUR_BH125_5.0	BUR_BH125	5	21/12/2021	<0.05	<0.05	-	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2
Statistical Summary																																								
Number of Results				94	94	7	94	94	94	94	87	94	94	94	94	7	87	94	94	94	94	94	94	94	7	87	7	94	94	94	94	94	94	94	94	94	94	94
Number of Detects				0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration				<0.05	<0.05	<2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2	<0.2
Minimum Detect				ND	ND	ND	ND	ND	ND	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration				<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5
Maximum Detect				ND	ND	ND	ND	ND	ND	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration				0.034	0.034	1.4	0.03	0.03	0.099	0.031	0.025	0.034	0.034	0.03	0.034	0.14	0.025	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.034	0.14	0.025	0.14	0.034	0.03	0.03	0.03	0.03	0.034	0.099	0.1	0.2	
Median Concentration				0.025	0.025	1	0.025	0.025	0.1	0.025	0.025	0.025	0.025	0.025	0.025	0.1	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.1	0.025	0.1	0.025	0.025	0.025	0.025	0.025	0.025	0.1	0.1	0.1	
Standard Deviation				0.036	0.036	0.73	0.033	0.033	0.028	0.034	0	0.036	0.036	0.033	0.036	0.073	0	0.033	0.033	0.033	0.033	0.033	0.033	0.036	0.073	0	0.073	0.036	0.033	0.033	0.033	0.033	0.036	0.028	0.022	0.4		
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

				Parathion	Phorate	Pirimphos-ethyl	Prothiofos	Ronnel	Bolstar (Sulprofos)	Merphos
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.2		0.05	0.05			
CRC Care (2011) Direct Contact HSL D - Comm/Ind										
CRC Care (2011) Direct Contact Intrusive Maint. Worker										
CRC Care (2017) Ecological guideline - Commercial and industrial										
NEPM (1999) EIL - Commercial/Industrial										
NEPM (1999) ESL - Commercial/Industrial (fine)										
NEPM (1999) HIL D - Commercial/Industrial										
NEPM (1999) HSL D Comm/Indust - VI Clay 0 to <1 m										
NEPM (1999) HSL D Comm/Indust - VI Clay 1 to <2 m										
NEPM (1999) HSL D Comm/Indust - VI Clay 2 to <4 m										
NEPM (1999) HSL D Comm/Indust - VI Clay 4 m+										
NEPM (1999) Management Limits - Commercial/Industrial (fine)										
Field_ID	**LocCode**	**Sample_Depth (m)**	**Sampled_Date**							
BUR_BH101_0.1	BUR_BH101	0.1	21/12/2021	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH101_2.0	BUR_BH101	2	21/12/2021	-	-	-	-	-	-	-
BUR_BH102_0.2	BUR_BH102	0.2	16/12/2021	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH102_2.0	BUR_BH102	2	16/12/2021	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH103_0.1	BUR_BH103	0.1	16/12/2021	<0.2	-	<0.05	<0.05	-	-	-
D01_20211216	BUR_BH103	0.1	16/12/2021	<0.2	-	<0.05	<0.05	-	-	-
T01_20211216	BUR_BH103	0.1	16/12/2021	<0.5	<0.5	-	-	<0.5	<0.5	<0.5
BUR_BH103_0.7	BUR_BH103	0.7	16/12/2021	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH103_3.0	BUR_BH103	3	16/12/2021	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH103_5.0	BUR_BH103	5	16/12/2021	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH105_0.1	BUR_BH105	0.1	15/12/2021	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH105_3.0	BUR_BH105	3	15/12/2021	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH106_0.2	BUR_BH106	0.2	17/12/2021	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH106_1.0	BUR_BH106	1	17/12/2021	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH106_2.0	BUR_BH106	2	17/12/2021	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH106_3.0	BUR_BH106	3	17/12/2021	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH106_4.0	BUR_BH106	4	17/12/2021	<0.2	-	<0.05	<0.05	-	-	-
D02_20211217	BUR_BH106	4	17/12/2021	<0.2	-	<0.05	<0.05	-	-	-
TO2-20211217	BUR_BH106	4	17/12/2021	<0.2	<0.2	-	-	<0.2	<0.2	<0.2
BUR_BH106_5.0	BUR_BH106	5	17/12/2021	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH107_0.2	BUR_BH107	0.2	17/12/2021	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH107_1.0	BUR_BH107	1	17/12/2021	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH107_3.0	BUR_BH107	3	17/12/2021	<0.2	-	<0.05	<0.05	-	-	-
D03_20211217	BUR_BH107	3	17/12/2021	<0.2	-	<0.05	<0.05	-	-	-
TO3-20211217	BUR_BH107	3	17/12/2021	<0.2	<0.2	-	-	<0.2	<0.2	<0.2
BUR_BH107_5.0	BUR_BH107	5	17/12/2021	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH108_0.2	BUR_BH108	0.2	17/12/2021	<0.2	-	<0.05	<0.05	-	-	-
D04_20211217	BUR_BH108	0.2	17/12/2021	<0.2	-	<0.05	<0.05	-	-	-
TO4-20211217	BUR_BH108	0.2	17/12/2021	<0.2	<0.2	-	-	<0.2	<0.2	<0.2
BUR_BH108_0.5	BUR_BH108	0.5	17/12/2021	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH108_2.0	BUR_BH108	2	17/12/2021	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH108_5.8	BUR_BH108	5.8	17/12/2021	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH108_11.0	BUR_BH108	11	17/12/2021	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH108_17.0	BUR_BH108	17	17/12/2021	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH108_20.0	BUR_BH108	20	17/12/2021	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH109_0.2	BUR_BH109	0.2	20/12/2021	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH109_0.5	BUR_BH109	0.5	20/12/2021	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH109_1.0	BUR_BH109	1	20/12/2021	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH109_3.0	BUR_BH109	3	20/12/2021	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH110_0.2	BUR_BH110	0.2	20/12/2021	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH110_0.5	BUR_BH110	0.5	20/12/2021	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH110_1.0	BUR_BH110	1	20/12/2021	<0.2	-	<0.05	<0.05	-	-	-

				Parathion	Phorate	Pirimphos-ethyl	Prothiofos	Ronnel	Bolstar (Sulprofos)	Merphos
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.2		0.05	0.05			
CRC Care (2011) Direct Contact HSL D - Comm/Ind										
CRC Care (2011) Direct Contact Intrusive Maint. Worker										
CRC Care (2017) Ecological guideline - Commercial and industrial										
NEPM (1999) EIL - Commercial/Industrial										
NEPM (1999) ESL - Commercial/Industrial (fine)										
NEPM (1999) HIL D - Commercial/Industrial										
NEPM (1999) HSL D Comm/Indust - VI Clay 0 to <1 m										
NEPM (1999) HSL D Comm/Indust - VI Clay 1 to <2 m										
NEPM (1999) HSL D Comm/Indust - VI Clay 2 to <4 m										
NEPM (1999) HSL D Comm/Indust - VI Clay 4 m+										
NEPM (1999) Management Limits - Commercial/Industrial (fine)										
Field_ID	**LocCode**	**Sample_Depth (m)**	**Sampled_Date**							
BUR_BH110_5.0	BUR_BH110	5	20/12/2021	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH111_0.2	BUR_BH111	0.2	20/12/2021	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH111_0.5	BUR_BH111	0.5	20/12/2021	<0.2	-	<0.05	<0.05	-	-	-
D05_20211220	BUR_BH111	0.5	20/12/2021	<0.2	-	<0.05	<0.05	-	-	-
T05-20211220	BUR_BH111	0.5	20/12/2021	<0.2	<0.2	-	-	<0.2	<0.2	<0.2
BUR_BH111_2.0	BUR_BH111	2	20/12/2021	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH111_5.0	BUR_BH111	5	20/12/2021	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH112_0.2	BUR_BH112	0.2	21/12/2021	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH112_0.5	BUR_BH112	0.5	21/12/2021	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH112_5.0	BUR_BH112	5	21/12/2021	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH113_0.2	BUR_BH113	0.2	20/12/2021	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH113_1.0	BUR_BH113	1	20/12/2021	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH113_2.0	BUR_BH113	2	20/12/2021	<0.2	-	<0.05	<0.05	-	-	-
D06__2021220	BUR_BH113	2	20/12/2021	<0.2	-	<0.05	<0.05	-	-	-
T06-20211220	BUR_BH113	2	20/12/2021	<0.2	<0.2	-	-	<0.2	<0.2	<0.2
BUR_BH113_5.0	BUR_BH113	5	20/12/2021	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH114_0.2	BUR_BH114	0.2	20/12/2021	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH114_0.5	BUR_BH114	0.5	20/12/2021	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH114_5.0	BUR_BH114	5	20/12/2021	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH114_10.0	BUR_BH114	10	20/12/2021	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH114_15.0	BUR_BH114	15	20/12/2021	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH115_0.2	BUR_BH115	0.2	21/12/2021	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH115_0.5	BUR_BH115	0.5	21/12/2021	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH115_1.0	BUR_BH115	1	21/12/2021	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH115_5.0	BUR_BH115	5	21/12/2021	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH115_10.0	BUR_BH115	10	21/12/2021	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH115_15.0	BUR_BH115	15	21/12/2021	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH116_0.2	BUR_BH116	0.2	21/12/2021	<0.2	-	<0.05	<0.05	-	-	-
D07_20211221	BUR_BH116	0.2	21/12/2021	<0.2	-	<0.05	<0.05	-	-	-
T07-20211221	BUR_BH116	0.2	21/12/2021	<0.5	<0.5	-	-	<0.5	<0.5	<0.5
BUR_BH116_0.5	BUR_BH116	0.5	21/12/2021	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH116_3.0	BUR_BH116	3	21/12/2021	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH117_0.2	BUR_BH117	0.2	21/12/2021	<0.2	-	<0.05	<0.05	-	-	-
D08_20211221	BUR_BH117	0.2	21/12/2021	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH117_1.0	BUR_BH117	1	21/12/2021	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH117_3.0	BUR_BH117	3	21/12/2021	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH118_0.25	BUR_BH118	0.25	16/12/2021	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH118_1.5	BUR_BH118	1.5	16/12/2021	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH119_0.25	BUR_BH119	0.25	16/12/2021	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH119_1.0	BUR_BH119	1	16/12/2021	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH120_0.2	BUR_BH120	0.2	17/12/2021	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH120_0.5	BUR_BH120	0.5	17/12/2021	<0.2	-	<0.05	<0.05	-	-	-

				Parathion	Phorate	Pirimphos-ethyl	Prothiofos	Ronnel	Bolstar (Sulprofos)	Merphos
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.2		0.05	0.05			
CRC Care (2011) Direct Contact HSL D - Comm/Ind										
CRC Care (2011) Direct Contact Intrusive Maint. Worker										
CRC Care (2017) Ecological guideline - Commercial and industrial										
NEPM (1999) EIL - Commercial/Industrial										
NEPM (1999) ESL - Commercial/Industrial (fine)										
NEPM (1999) HIL D - Commercial/Industrial										
NEPM (1999) HSL D Comm/Indust - VI Clay 0 to <1 m										
NEPM (1999) HSL D Comm/Indust - VI Clay 1 to <2 m										
NEPM (1999) HSL D Comm/Indust - VI Clay 2 to <4 m										
NEPM (1999) HSL D Comm/Indust - VI Clay 4 m+										
NEPM (1999) Management Limits - Commercial/Industrial (fine)										
Field_ID	**LocCode**	**Sample_Depth (m)**	**Sampled_Date**							
BUR_BH121_0.16	BUR_BH121	0.16	18/01/2022	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH122_0.13	BUR_BH122	0.13	18/01/2022	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH122_0.3	BUR_BH122	0.3	18/01/2022	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH122_0.7	BUR_BH122	0.7	18/01/2022	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH123_0.12	BUR_BH123	0.12	18/01/2022	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH123_0.3	BUR_BH123	0.3	18/01/2022	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH123_1.0	BUR_BH123	1	18/01/2022	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH124_0.15	BUR_BH124	0.15	18/01/2022	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH125_0.2	BUR_BH125	0.2	21/12/2021	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH125_0.5	BUR_BH125	0.5	21/12/2021	<0.2	-	<0.05	<0.05	-	-	-
BUR_BH125_5.0	BUR_BH125	5	21/12/2021	<0.2	-	<0.05	<0.05	-	-	-
Statistical Summary										
Number of Results				94	7	87	87	7	7	7
Number of Detects				0	0	0	0	0	0	0
Minimum Concentration				<0.2	<0.2	<0.05	<0.05	<0.2	<0.2	<0.2
Minimum Detect				ND	ND	ND	ND	ND	ND	ND
Maximum Concentration				<0.5	<0.5	<0.05	<0.05	<0.5	<0.5	<0.5
Maximum Detect				ND	ND	ND	ND	ND	ND	ND
Average Concentration				0.1	0.14	0.025	0.025	0.14	0.14	0.14
Median Concentration				0.1	0.1	0.025	0.025	0.1	0.1	0.1
Standard Deviation				0.022	0.073	0	0	0.073	0.073	0.073
Number of Guideline Exceedances				0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0

Table 2a. Groundwater Analytical Results - Metals and Inorganics
Burwood Station Construction Site
SMW_Burwood - 0628507

			Alkalinity by PC Titra		MNA			Nitrite and Nitrate	Total Phosphorus	Inorganics											Metals										
			Carbonate Alkalinity as CaCO3	Bicarbonate Alkalinity as CaCO3	TDS	Ammonia as N	Nitrate (as N)	Nitrite + Nitrate as N	Total Phosphorus as P	Alkalinity (Hydroxide) as CaCO3	Alkalinity (total) as CaCO3	Anions Total	Cations Total	Chloride	Ionic Balance	Reactive Phosphorus as P	Sodium (Filtered)	Sulfate as SO4 - Turbidimetric (Filtered)	Kjeldahl Nitrogen Total	Nitrite (as N)	Nitrogen (Total)	Arsenic (Filtered)	Cadmium (Filtered)	Calcium (Filtered)	Chromium (Filtered)	Copper (Filtered)	Iron (Filtered)	Lead (Filtered)	Magnesium (Filtered)	Mercury (Filtered)	Nickel (Filtered)	Potassium (Filtered)	Zinc (Filtered)
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	meq/L	meq/L	mg/L	%	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL			1	1	10	0.01	0.01	0.01	0.01	1	1	0.01	0.01	1	0.01	0.01	1	1	0.1	0.01	100	1	0.1	1	1	1	50	1	1	0.1	1	1	5
NHMRC (2008) Recommended Recreational Guidelines - Aesthetic					6000									2500			1800										3000						30000
NHMRC (2008) Recommended Recreational Guidelines - Health														2500								100	20		500	20000		100		10	200		
Slightly to Moderately Disturbed Discharge Criteria for Estuarine Water									0.025							0.005					350	13	0.2			1.3	300	3.4		0.06	7		8
Field_ID	**LocCode**	**Sampled_Date**																														
BUR-MW108	BUR_MW108	20/01/2022	<1	695	4910	0.41	0.02	0.02	3.26	<1	695	89.8	81	2310	5.17	-	1510	518	2.6	<0.01	2600	13	0.4	87	<1	4	60	<1	125	<0.1	28	27	15
RY718_BH1331	RY718_BH1331	21/01/2022	43	<1	1350	1.48	<0.01	0.1	1.13	98	142	24.5	20.5	566	8.83	<0.01	456	274	3.8	0.26	3900	17	<0.1	4	<1	2	-	<1	2	<0.1	4	13	<5
Statistical Summary																																
Number of Results			2	2	2	2	2	2	2	2	2	2	2	2	2	1	2	2	2	2	2	2	2	2	2	2	1	2	2	2	2	2
Number of Detects			1	1	2	2	1	2	2	1	2	2	2	2	2	0	2	2	2	1	2	2	1	2	0	2	1	0	2	0	2	2	1
Minimum Concentration			<1	<1	1350	0.41	<0.01	0.02	1.13	<1	142	24.5	20.5	566	5.17	<0.01	456	274	2.6	<0.01	2600	13	<0.1	4	<1	2	60	<1	2	<0.1	4	13	<5
Minimum Detect			43	695	1350	0.41	0.02	0.02	1.13	98	142	24.5	20.5	566	5.17	ND	456	274	2.6	0.26	2600	13	0.4	4	ND	2	60	ND	2	ND	4	13	15
Maximum Concentration			43	695	4910	1.48	0.02	0.1	3.26	98	695	89.8	81	2310	8.83	<0.01	1510	518	3.8	0.26	3900	17	0.4	87	<1	4	60	<1	125	<0.1	28	27	15
Maximum Detect			43	695	4910	1.48	0.02	0.1	3.26	98	695	89.8	81	2310	8.83	ND	1510	518	3.8	0.26	3900	17	0.4	87	ND	4	60	ND	125	ND	28	27	15
Average Concentration																																
Median Concentration			21.75	347.75	3130	0.945	0.0125	0.06	2.195	49.25	418.5	57.15	50.75	1438	7	0.005	983	396	3.2	0.1325	3250	15	0.225	45.5	0.5	3	60	0.5	63.5	0.05	16	20	8.75
Standard Deviation																																
Number of Guideline Exceedances			0	0	0	0	0	0	2	0	0	0	0	0	0	1	0	0	0	0	2	2	1	0	0	2	0	0	0	2	1	0	1
Number of Guideline Exceedances(Detects Only)			0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	2	1	0	0	2	0	0	0	0	1	0	1

			TRH - Semivolatile Fraction									TRH Volatiles/BTEX										N	PAH/Phenols (SIM)																	
			>C10 - C16 Fraction	>C10 - C16 Fraction minus Naphthalene (F2)	>C16 - C34 Fraction	>C34 - C40 Fraction	>C10 - C40 Fraction (sum)	C10 - C14 Fraction	C15 - C28 Fraction	C29 - C36 Fraction	C10 - C36 Fraction (sum)	Toluene	Total Xylenes	Benzene	C6 - C10 Fraction	C6 - C10 Fraction minus BTEX (F1)	C6 - C9 Fraction	Ethylbenzene	meta- & para-Xylene	ortho-Xylene	Sum of BTEX	Naphthalene	Acenaphthene	Acenaphthylene	Anthracene	Fluoranthene	Fluorene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(a)pyrene TEQ (zero)	Benzo(b+j)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Indeno(1,2,3,cd)pyrene	Phenanthrene	Pyrene	Sum of polycyclic aromatic hydrocarbons
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL			100	100	100	100	100	50	100	50	50	2	2	1	20	20	20	2	2	2	1	1	1	1	1	1	1	0.5	0.5	1	1	1	1	1	1	1	1	0.5
NEPM (1999) HSL D Comm/Indust - Clay 2 to <4 m												NL	NL	30000				NL				NL																	
NEPM (1999) HSL D Comm/Indust - Clay 4 to <8 m												NL	NL	30000				NL				NL																	
NEPM (1999) HSL D Comm/Indust - Clay 8 m+												NL	NL	35000				NL				NL																	
NHMRC (2008) Recommended Recreational Guidelines - Aesthetic																																								
NHMRC (2008) Recommended Recreational Guidelines - Health												8000	6000	10				3000				700	20000		1500		100000		0.1								1500	1500	
Slightly to Moderately Disturbed Discharge Criteria for Estuarine Water							100					180		500				80	75|200	350		16			0.01	1			0.01								0.6		
Field_ID	**LocCode**	**Sampled_Date**																																						
BUR-MW108	BUR_MW108	20/01/2022	<100	<100	<100	<100	<100	<50	<100	<50	<50	<2	<2	<1	<20	<20	<20	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
RY718_BH1331	RY718_BH1331	21/01/2022	570	570	190	<100	760	290	430	<50	720	<2	<2	<1	<20	<20	<20	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
Statistical Summary																																								
Number of Results			2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Number of Detects			1	1	1	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration			<100	<100	<100	<100	<100	<50	<100	<50	<50	<2	<2	<1	<20	<20	<20	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
Minimum Detect			570	570	190	ND	760	290	430	ND	720	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration			570	570	190	<100	760	290	430	<50	720	<2	<2	<1	<20	<20	<20	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
Maximum Detect			570	570	190	ND	760	290	430	ND	720	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration																																								
Median Concentration			310	310	120	50	405	157.5	240	25	372.5	1	1	0.5	10	10	10	1	1	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.25	0.25	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.25
Standard Deviation																																								
Number of Guideline Exceedances			0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	2	0	0
Number of Guideline Exceedances(Detects Only)			0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

| | | | | | | | Semivolatile Organic Compounds | | | | | | | | | | | SVOC | | | | | | | | | | |

																								Chlorinated HCs																									
			Bis(2-chloroethyl)ether	Carbazole	Chlorobenzilate	Dibenzofuran	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Hexachloropropene	Isophorone	Methapyrilene	Nitrobenzene	N-nitrosodiethylamine	N-nitrosodi-n-butylamine	N-nitrosodi-n-propylamine	N-Nitrosomethylethylamine	N-nitrosomorpholine	N-nitrosopiperidine	N-nitrosopyrrolidine	Pentachlorobenzene	Pentachloronitrobenzene	Phenacetin	Pronamide	1,2,3-trichlorobenzene	1,2,4-trichlorobenzene	1,2-dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	2-chlorotoluene	4-chlorotoluene	Bromobenzene	Isopropylbenzene	n-butylbenzene	n-propylbenzene	p-isopropyltoluene	sec-butylbenzene	Styrene	tert-butylbenzene	1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL			2	2	2	2	2	10	2	2	2	2	2	2	2	2	2	2	2	4	2	2	2	2	5	2	2	2	2	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
NEPM (1999) HSL D Comm/Indust - Clay 2 to <4 m																																																	
NEPM (1999) HSL D Comm/Indust - Clay 4 to <8 m																																																	
NEPM (1999) HSL D Comm/Indust - Clay 8 m+																																																	
NHMRC (2008) Recommended Recreational Guidelines - A																												200																						
NHMRC (2008) Recommended Recreational Guidelines - H					7	20000	100		4000			0.1					0.01				300		700		7000	15000		400	3000		1000000	10000	10000	6000	400000					300		100	4000000	40	
Slightly to Moderately Disturbed Discharge Criteria for Est																																			30													
Field_ID	**LocCode**	**Sampled_Date**																																															
BUR-MW108	BUR_MW108	20/01/2022	-	-	-	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
RY718_BH1331	RY718_BH1331	21/01/2022	<2	<2	<2	<2	<2	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<4	<2	<2	<2	<2	<5	<2	<2	<2	<2	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Statistical Summary																																																	
Number of Results			1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Number of Detects			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration			<2	<2	<2	<2	<2	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<4	<2	<2	<2	<2	<5	<2	<2	<2	<2	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Minimum Detect			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration			<2	<2	<2	<2	<5	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<4	<2	<2	<2	<2	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Maximum Detect			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration																																																	
Median Concentration			1	1	1	1	1.75	5	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	2.5	1.75	1.75	1.75	1.75	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Standard Deviation																																																	
Number of Guideline Exceedances			0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

			VOC																																							
			1,1,2-trichloroethane	1,1-dichloroethane	1,1-dichloroethene	1,1-dichloropropene	1,2,3-trichloropropane	1,2-dibromo-3-chloropropane	1,2-dibromoethane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	2,2-dichloropropane	2-butanone (MEK)	2-hexanone (MBK)	4-methyl-2-pentanone (MIBK)	Bromodichloromethane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorodibromomethane	Chloroethane	Chloroform	Chloromethane	cis-1,2-dichloroethene	cis-1,3-dichloropropene	cis-1,4-Dichloro-2-butene	Dibromomethane	Dichlorodifluoromethane	Iodomethane	Pentachloroethane	TCE	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	trans-1,4-Dichloro-2-butene	Trichlorofluoromethane	Vinyl acetate	Vinyl chloride
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL			5	5	5	5	5	5	5	5	5	5	5	50	50	50	5	5	50	5	5	5	50	5	50	5	5	5	5	50	5	5	5	5	5	5	5	50	50	50
NEPM (1999) HSL D Comm/Indust - Clay 2 to <4 m																																										
NEPM (1999) HSL D Comm/Indust - Clay 4 to <8 m																																										
NEPM (1999) HSL D Comm/Indust - Clay 8 m+																																										
NHMRC (2008) Recommended Recreational Guidelines - A																																										
NHMRC (2008) Recommended Recreational Guidelines - H			60	30	300		10000	10	10	30	400			400000			60	1000	10		30	1000		2000	40000	1000				100000			80	500	10000			200000		3
Slightly to Moderately Disturbed Discharge Criteria for Est																																										
Field_ID	**LocCode**	**Sampled_Date**																																								
BUR-MW108	BUR_MW108	20/01/2022	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<50	<50	<5	<5	<50	<5	<5	<5	<50	<5	<50	<5	<5	<5	<5	<50	<5	<5	<5	<5	<5	<5	<5	<50	<50	<50
RY718_BH1331	RY718_BH1331	21/01/2022	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<50	<50	<5	<5	<50	<5	<5	<5	<50	7	<50	<5	<5	<5	<5	<50	<5	<5	<5	<5	<5	<5	<5	<50	<50	<50
Statistical Summary																																										
Number of Results			2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Number of Detects			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration			<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<50	<50	<5	<5	<50	<5	<5	<5	<50	<5	<50	<5	<5	<5	<5	<50	<5	<5	<5	<5	<5	<5	<5	<50	<50	<50
Minimum Detect			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration			<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<50	<50	<5	<5	<50	<5	<5	<5	<50	7	<50	<5	<5	<5	<5	<50	<5	<5	<5	<5	<5	<5	<5	<50	<50	<50
Maximum Detect			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration																																										
Median Concentration			2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	25	25	25	2.5	2.5	25	2.5	2.5	2.5	25	4.75	25	2.5	2.5	2.5	2.5	25	2.5	2.5	2.5	2.5	2.5	2.5	2.5	25	25	25
Standard Deviation																																										
Number of Guideline Exceedances			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Number of Guideline Exceedances(Detects Only)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

				Explosives	Pesticides																														
				1,3,5-Trinitrobenzene	4,4-DDE	a-BHC	Aldrin	Aldrin + Dieldrin	b-BHC	Chlorfenvinphos	Chlorpyrifos	Chlorpyrifos-methyl	d-BHC	DDD	DDT	DDT+DDE+DDD	Diazinon	Dichlorvos	Dieldrin	Dimethoate	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Ethion	Fenthion	g-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Hexachlorobenzene	Malathion	Pirimphos-ethyl	Prothiofos
				mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL				0.002	2	2	2	4	2	2	2	2	2	2	4	4	2	2	2	2	2	2	2	2	2	2	2	2	2	4	2	2	2
NHMRC (2008) Recommended Recreational Guidelines - Aesthetic																																			
NHMRC (2008) Recommended Recreational Guidelines - Health					200	200	0.2	3	200	20	100	100			90		40	50	0.2	70			300	6	40	70	100	3	0.4	2	700	5	
Slightly to Moderately Disturbed Discharge Criteria for Estuarine Water							0.001				0.009						0.01		0.01	0.15				0.004				0.0004			0.05		
Field_ID	**LocCode**	**Sampled_Date**																																	
RY718_BH1331	RY718_BH1331	21/01/2022		<0.002	<2	<2	<2	<4	<2	<2	<2	<2	<2	<2	<4	<4	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<4	<2	<2	<2
Statistical Summary																																			
Number of Results				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Number of Detects				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration				<0.002	<2	<2	<2	<4	<2	<2	<2	<2	<2	<2	<4	<4	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<4	<2	<2	<2
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration				<0.002	<2	<2	<2	<4	<2	<2	<2	<2	<2	<2	<4	<4	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<4	<2	<2	<2
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration																																			
Median Concentration				0.001	1	1	1	2	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1
Standard Deviation																																			
Number of Guideline Exceedances				0	0	0	1	1	0	0	1	0	0	0	0	0	1	0	1	1	0	0	0	1	0	0	0	1	1	1	1	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	Per- and Polyfluoroalkyl Subst																			PFOS and PFOA									
	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (Et	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE	N-Methyl perfluorooctane sulfonamide (MeFOSA)	N-Methyl perfluorooctane sulfonamidoacetic acid (M	N-Methyl perfluorooctane sulfonamidoethanol (MeFOS	Perfluorobutanoic acid (PFBA)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorooctane sulfonic acid (PFOS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluoropentanoic acid (PFPeA)	Perfluorooctanoic acid (PFOA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorotridecanoic acid (PFTrDA)	Sum of PFHxS and PFOS	Perfluorobutanesulfonic acid (PFBS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorodecanoic acid (PFDA)	Perfluorohexanesulfonic acid (PFHxS)	Perfluorododecanoic acid (PFDoA)	Perfluoroheptanoic acid (PFHpA)	Perfluorohexanoic acid (PFHxA)	Perfluorononanoic acid (PFNA)	Perfluorooctanesulfonamide (PFOSA)	Perfluoroundecanoic acid (PFUnA)
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	0.05	0.05	0.05	0.05	0.05	0.02	0.05	0.05	0.02	0.05	0.1	0.02	0.01	0.02	0.02	0.01	0.05	0.02	0.01	0.02	0.02	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02
NEMP (2020) Recreational Water													2			10			2				2						
NHMRC (2008) Recommended Recreational Guidelines - Aesthetic																													
NHMRC (2008) Recommended Recreational Guidelines - Health													0.7			5.6			0.7				0.7						
Slightly to Moderately Disturbed Discharge Criteria for Estuarine Water													0.0002			19													
Field_ID	**LocCode**	**Sampled_Date-Time**																													
BUR_MW108	BUR_MW108	20/01/2022	<0.05	<0.05	0.07	<0.05	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.1	<0.02	<0.01	<0.02	<0.02	<0.01	<0.05	<0.02	<0.01	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
RY718_BH1331	RY718_BH1331	21/01/2022	<0.05	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.1	<0.02	<0.01	<0.02	<0.02	<0.01	<0.05	<0.02	<0.01	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Statistical Summary																															
Number of Results	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Number of Detects	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration	<0.05	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.1	<0.02	<0.01	<0.02	<0.02	<0.01	<0.05	<0.02	<0.01	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Minimum Detect	ND	ND	0.07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration	<0.05	<0.05	0.07	<0.05	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.1	<0.02	<0.01	<0.02	<0.02	<0.01	<0.05	<0.02	<0.01	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Maximum Detect	ND	ND	0.07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration																															
Median Concentration	0.025	0.025	0.0475	0.025	0.025	0.01	0.025	0.025	0.01	0.025	0.05	0.01	0.005	0.01	0.01	0.005	0.025	0.01	0.005	0.01	0.01	0.01	0.005	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Standard Deviation																															
Number of Guideline Exceedances	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

APPENDIX A PHOTOGRAPHIC LOG



Photo 001	Site Surface – Rear of Pine Inn



Photo 002	Site surface - Car wash



Photo 003	Site Surface – Car wash



Photo 004	Site surface – Reece Plumbing car park



Photo 005	Site surface – Inside home display warehouse



Photo 006	Site Surface – Corner of Burwood and Parramatta Road, facing north. Retail and commercial businesses



Photo 007	Site Surface – Inside smash repair workshop on southern side of Parramatta Rd.



Photo 008	Site Surface – Near BH117 in Southern portion of Site, south of Parramatta Rd



Photo 009	Site Surface – Near BH119 facing north along Neichs Lane.



Photo 010	Site Surface – Near BH123 inside workshop



Photo 011	Material from BUR_BH121 under concrete slab



Photo 012	Natural Clays from BUR_BH123



Photo 013	Example material from BUR_BH106. Gravelly rodbase



Photo 014	Example of grey shales from BUR_BH107



Photo 015	Example of grey brown clay from push tube in location BUR_BH107.



Photo 016	Example of grey/brown clay from push tube at location BUR_BH111.

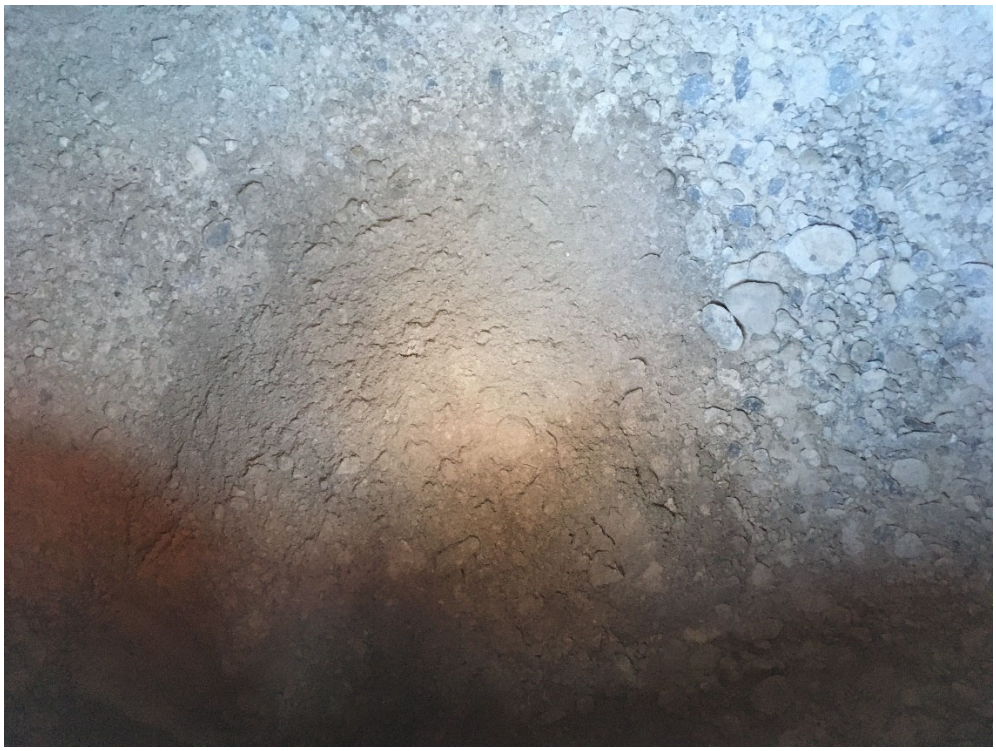


Photo 017	Example material Brown/grey siltstone from BUR_BH108



Photo 018	Example material from topsoil fill from BUR_BH101



Photo 019	ACM fragment from BUR_BH116.



Photo 020	Example of fill materials from BUR_BH115

APPENDIX B BORELOGS

BORE LOG ID BUR_BH101

Client: AFJV
Project No: 0628507
Project Name: SMW_Burwood
Site Address: Crn Parramatta Rd and Burwood Rd
Drilling Date: 21/12/2021 - 21/12/2021

Drilling Method: Augering Solid Fligh
Hole Diam./Width (mm): 125
Surface Completion: Backfill
Final Water Level (m bgl):

Elevation (Ground):
Elevation (Case):
Easting (MGA): -33.867974
Northing (MGA): 151.105915

Comments:

Log By: MB/TR
Checked By:

Material Description	Symbol	Well Diagram	Depth (m)	% Recovery	Sample Type	Analysed	PID	Samples	Additional Observations
FILL: Brown topsoils with silty clay fill, trace gravels, crushed brick, ceramic, rootlets and sandstone, bitumen @ 0.5m			0.2 0.4 0.6 0.8			Y	0.1	BUR_BH101_0.1	
CLAY: Red Clay, dense, dry, medium to low plasticity, (Natural)			1 1.2 1.4						
CLAY: Grey clay, dense, dry, medium to low plasticity, grey shales and harder with depth			1.6 1.8 2 2.2 2.4 2.6 2.8			Y	0	BUR_BH101_2.0	
Termination Depth at:2.8 m			3 3.2 3.4 3.6 3.8 4 4.2 4.4 4.6 4.8						

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BORE LOG ID BUR_BH102

Client: AFJV
Project No: 0628507
Project Name: SMW_Burwood
Site Address: Crn Parramatta Rd and Burwood Rd
Drilling Date: 16/12/2021 - 16/12/2021

Drilling Method: Augering Solid Fligh
Hole Diam./Width (mm): 125
Surface Completion: Backfill
Final Water Level (m bgl):

Elevation (Ground):
Elevation (Case):
Easting (MGA): -33.868007
Northing (MGA): 151.106297

Comments:

Log By: MB/TR
Checked By:

Material Description	Symbol	Well Diagram	Depth (m)	% Recovery	Sample Type	Analysed	PID	Samples	Additional Observations
CONCRETE: Concrete Slab						Y		BUR_BH102_0.15	
ROADBASE:			0.2			Y		BUR_BH102_0.2	
FILL: Brown/grey gravelly, silty clay, medium plasticity, angular to sub-angular gravels and bricks, soft clays @0.3-0.5m			0.4						
SILTY CLAY: Red/orange silty clay with grey mottling, slightly moist, rock fragment inclusions			0.6						
			0.8						
SILTY CLAY: Orange/red silty clay with grey mottling, medium plasticity			1						
			1.2						
			1.4						
			1.6						
SILTY CLAY: Red/orange, grey silty clay and weathered rock, grey clay with rock fragments, hard-very hard, slightly moist -dry			1.8						
			2			Y		BUR_BH102_2.0	
			2.2						
			2.4						
			2.6						
			2.8						
Termination Depth at:3 m			3						
			3.2						
			3.4						
			3.6						
			3.8						
			4						
			4.2						
			4.4						
			4.6						
			4.8						

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BORE LOG ID BUR_BH103

Client: AFJV
Project No: 0628507
Project Name: SMW_Burwood
Site Address: Crn Parramatta Rd and Burwood Rd
Drilling Date: 16/12/2021 - 16/12/2021

Drilling Method: Augering Solid Fligh
Hole Diam./Width (mm): 125
Surface Completion: Backfill
Final Water Level (m bgl):

Elevation (Ground):
Elevation (Case):
Easting (MGA): -33.868295
Northing (MGA): 151.105501

Comments:

Log By: MB/TR
Checked By:

Material Description	Symbol	Well Diagram	Depth (m)	% Recovery	Sample Type	Analysed	PID	Samples	Additional Observations
FILL: Brown-dark brown silty clay topsoils with angular-sub angular gravels, loose, bricks			0.2			Y	1.2	BUR_BH103_0.1	
FILL: Brown silty clay fill, plastic, slightly moist, some angular/sub-angular gravels, soft			0.6			Y	0.6	BUR_BH103_0.7	
SILTY CLAY: Red/orange and grey mottled silty clay, medium-high plasticity, slightly moist, soft, harder with increasing depth			1						
SHALE: Red/grey mottled silty clay, hard with extremely weathered rock, dry, shale @2m			1.8						
SHALE: Brown Rock/silty clay, hard, dry-slightly moist, with shale inclusions, grey @3.5m, grey/brown @4m			2.2						Soft from 2.8-3.5m assumed to be perched water
			2.8						Auger drilling was soft, pressumed to be due to perched water as cuttings were moist
			3			Y	0.1	BUR_BH103_3.0	
			5			Y	0.1	BUR_BH103_5.0	
Termination Depth at:5 m			5.2						

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BORE LOG ID BUR_BH104

Client: AFJV
Project No: 0628507
Project Name: SMW_Burwood
Site Address: Crn Parramatta Rd and Burwood Rd
Drilling Date: 16/12/2021 - 16/12/2021

Drilling Method: Augering Solid Fligh
Hole Diam./Width (mm): 125
Surface Completion: Backfill
Final Water Level (m bgl):

Elevation (Ground):
Elevation (Case):
Easting (MGA): -33.86844
Northing (MGA): 151.105982

Comments:

Log By: MB/TR
Checked By:

Material Description	Symbol	Well Diagram	Depth (m)	% Recovery	Sample Type	Analysed	PID	Samples	Additional Observations
CONCRETE: Concrete Slab			0.2			Y	0.3	BUR_BH104_0.2	
FILL: Dark brown silty clay, medium-high plasticity, with sub-angular to angular gravels, moist, very soft			0.4 0.6						
SILTY CLAY: Red/orange/ grey mottled silty clay, soft -hard, medium-low plasticity, slightly moist, angular to sub-angular			0.8 1			Y	1.5	BUR_BH104_1.0	
SHALE: Grey weathered shale/rock, hard, dense, dry			1.2 1.4 1.6 1.8						
SILTSTONE: Brown silty clay/siltstone, rock, hard, dry, with shale inclusions, progressively harder, Shale @4.5-5m			2 2.2 2.4 2.6 2.8 3 3.2 3.4 3.6 3.8 4 4.2 4.4 4.6 4.8			Y	0.1	BUR_BH104_4.0	
Termination Depth at:5 m			5 5.2						

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BORE LOG ID BUR_BH105

Client: AFJV
Project No: 0628507
Project Name: SMW_Burwood
Site Address: Crn Parramatta Rd and Burwood Rd
Drilling Date: 15/12/2021 - 15/12/2021

Drilling Method: Augering Solid Fligh
Hole Diam./Width (mm): 125
Surface Completion: Backfill
Final Water Level (m bgl):

Elevation (Ground):
Elevation (Case):
Easting (MGA): -33.868682
Northing (MGA): 151.105734

Comments:

Log By: MB/TR
Checked By:

Material Description	Symbol	Well Diagram	Depth (m)	% Recovery	Sample Type	Analysed	PID	Samples	Additional Observations
CONCRETE: Concrete Slab			0			Y	41.2	BUR_BH105_0.1	
SAND: Brown/yellow sand, rounded-sub angular, no odour, no staining			0.2						
CLAY: Red/brown clay, soft, plastic, no odour, no staining (Natural)			0.4 0.6 0.8 1 1.2 1.4 1.6						
SILTY CLAY: Grey silty clay, dense, dry			1.8						
SILTY CLAY: Brown silty shaley clay, hard, dry			2 2.2 2.4 2.6 2.8 3			Y	4.5	BUR_BH105_3.0	
Termination Depth at:3 m			3.2 3.4 3.6 3.8 4 4.2 4.4 4.6 4.8						

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BORE LOG ID BUR_BH106

Client: AFJV
Project No: 0628507
Project Name: SMW_Burwood
Site Address: Crn Parramatta Rd and Burwood Rd
Drilling Date: 17/12/2021 - 17/12/2021

Drilling Method: Augering Solid Fligh
Hole Diam./Width (mm): 125
Surface Completion: Backfill
Final Water Level (m bgl):

Elevation (Ground):
Elevation (Case):
Easting (MGA): -33.868487
Northing (MGA): 151.106226

Comments:

Log By: MB/TR
Checked By:

Material Description	Symbol	Well Diagram	Depth (m)	% Recovery	Sample Type	Analysed	PID	Samples	Additional Observations
CONCRETE: Concrete Slab									
ROADBASE: Black gravelly sand, poorly sorted, dry, roadbase			0.2			Y	2.2	BUR_BH106_0.2	
SILTY CLAY: Brown silty clay, dense, plastic (Natural)			0.4						
			0.6						
SHALE: Light brown silty clay, more shale with depth, hard			0.8						
			1			Y	0.4	BUR_BH106_1.0	
			1.2						
			1.4						
			1.6						
			1.8						
SHALE: Orange/brown silty shale, dry, hard			2			Y	0.6	BUR_BH106_2.0	
			2.2						
			2.4						
			2.6						
			2.8						
SHALE: Brown silty shale, dry, hard			3			Y	0.5	BUR_BH106_3.0	
			3.2						
			3.4						
			3.6						
			3.8						
			4			Y	0.5	BUR_BH106_4.0	
			4.2						
			4.4						
			4.6						
			4.8						
			5			Y	0.1	BUR_BH106_5.0	
Termination Depth at:5 m			5.2						

Disclaimer This log is intended for environmental not geotechnical purposes.
produced by ESlog.ESdat.net on 01 Feb 2022

BORE LOG ID BUR_BH107

Client: AFJV
Project No: 0628507
Project Name: SMW_Burwood
Site Address: Crn Parramatta Rd and Burwood Rd
Drilling Date: 17/12/2021 - 17/12/2021

Drilling Method: Augering Solid Fligh
Hole Diam./Width (mm): 125
Surface Completion: Backfill
Final Water Level (m bgl):

Elevation (Ground):
Elevation (Case):
Easting (MGA): -33.868504
Northing (MGA): 151.106403

Comments:

Log By: MB/TR
Checked By:

Material Description	Symbol	Well Diagram	Depth (m)	% Recovery	Sample Type	Analysed	PID	Samples	Additional Observations
CONCRETE: Concrete Slab			0.2			Y	1.5	BUR_BH107_0.2	
ROADBASE: Grey/ black gravelly sand, poorly sorted, dry, roadbase			0.4						
CLAY: Grey/brown clay, dense, plastic (Natural)			0.6						
			0.8						
			1			Y	0.5	BUR_BH107_1.0	
			1.2						
			1.4						
SHALE: Grey/brown weathered shale, hard, dense, dry			1.6						
			1.8						
			2						
			2.2						
			2.4						
			2.6						
			2.8						
			3			Y		BUR_BH107_3.0	
			3.2						
			3.4						
			3.6						
			3.8						
			4						
			4.2						
			4.4						
			4.6						
			4.8						
			5			Y		BUR_BH107_5.0	
Termination Depth at:5 m			5.2						

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BORE LOG ID BUR_BH108

Client: AFJV
Project No: 0628507
Project Name: SMW_Burwood
Site Address: Crn Parramatta Rd and Burwood Rd
Drilling Date: 17/12/2021 - 17/12/2021

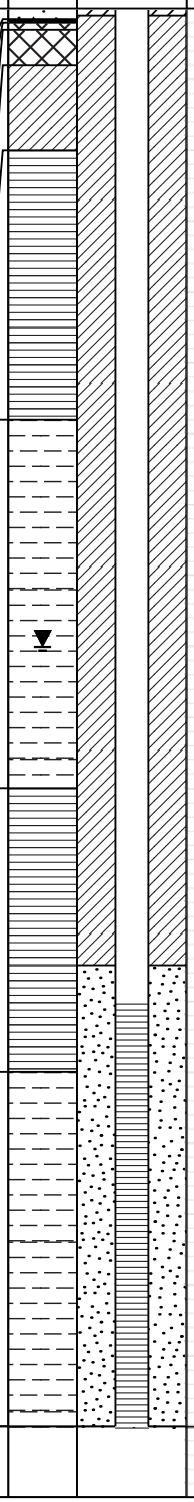
Drilling Method: Augering Solid Fligh
Hole Diam./Width (mm): 125
Surface Completion: Backfill
Final Water Level (m bgl):

Elevation (Ground):
Elevation (Case):
Easting (MGA): -33.868519
Northing (MGA): 151.106457

Comments:

Log By: MB/TR
Checked By:

Material Description	Depth (m)	Analysed	PID	Samples	Additional Observations
CONCRETE: Concrete Slab	0	Y	6.3	BUR_BH108_0.2	
ASPHALT:		Y	5.2	BUR_BH108_0.5	
FILL: Brown/black gravelly fill, brick fragments, ceramic, loose	1				
FILL: Brown/grey clay fill, trace sandstone and gravels	2	Y	1.2	BUR_BH108_2.0	
CLAY: Grey clay, dense, dry, medium to low plasticity, grey shales and harder with depth, (Natural)	3				
SHALE: Grey weathered shales, hard	4				
	5	Y	1.5	BUR_BH108_5.8	
SILTSTONE: Brown Siltstone, rock, hard	6				
	7				
	8				
	9				
	10				
	11	Y	6.1	BUR_BH108_11.0	
SHALE: Dark grey shale, rock, hard, dense	12				
	13				
	14				
	15				
SILTSTONE: Light grey siltstone, hard	16				
	17	Y	3	BUR_BH108_17.0	
	18				
	19				
	20	Y	3.1	BUR_BH108_20.0	
Termination Depth at:20 m					



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BORE LOG ID BUR_BH109

Client: AFJV
Project No: 0628507
Project Name: SMW_Burwood
Site Address: Crn Parramatta Rd and Burwood Rd
Drilling Date: 20/12/2021 - 20/12/2021

Drilling Method: Augering Solid Fligh
Hole Diam./Width (mm): 125
Surface Completion: Backfill
Final Water Level (m bgl):

Elevation (Ground):
Elevation (Case):
Easting (MGA): -33.868697
Northing (MGA): 151.106455

Comments:

Log By: MB/TR
Checked By:

Material Description	Symbol	Well Diagram	Depth (m)	% Recovery	Sample Type	Analysed	PID	Samples	Additional Observations
CONCRETE: Concrete Slab									
ROADBASE: Dark grey/black gravels, crushed concrete, roadbase			0.2			Y	0.7	BUR_BH109_0.2	
FILL: Dark grey/brown clay fill, dense, plastic, brick fragments			0.4			Y	0.2	BUR_BH109_0.5	
			0.6						
CLAY: Brown/red mottled grey clay, soft, plastic (Natural)			0.8						
			1			Y	1.2	BUR_BH109_1.0	
			1.2						
			1.4						
			1.6						
			1.8						
CLAY: Grey/brown shaley clay, dense, stiff			2						
			2.2						
			2.4						
			2.6						
			2.8						
			3			Y	1	BUR_BH109_3.0	
Termination Depth at:3 m			3.2						
			3.4						
			3.6						
			3.8						
			4						
			4.2						
			4.4						
			4.6						
			4.8						

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BORE LOG ID BUR_BH110

Client: AFJV
Project No: 0628507
Project Name: SMW_Burwood
Site Address: Crn Parramatta Rd and Burwood Rd
Drilling Date: 20/12/2021 - 20/12/2021

Drilling Method: Augering Solid Fligh
Hole Diam./Width (mm): 125
Surface Completion: Backfill
Final Water Level (m bgl):

Elevation (Ground):
Elevation (Case):
Easting (MGA): -33.86867
Northing (MGA): 151.106699

Comments:

Log By: MB/TR
Checked By:

Material Description	Symbol	Well Diagram	Depth (m)	% Recovery	Sample Type	Analysed	PID	Samples	Additional Observations
CONCRETE: Concrete Slab			0.2			Y	0.4	BUR_BH110_0.2	
FILL: Brown gravelly fill, poorly sorted, crushed brick			0.4			Y	0.5	BUR_BH110_0.5	
FILL: Brown/red clay fill, medium plasticity, trace gravels			0.6						
			0.8						
CLAY: Grey mottled red clay, dense, Medium plasticity (Natural)			1			Y	0.3	BUR_BH110_1.0	
			1.2						
			1.4						
			1.6						
			1.8						
SHALE: Brown silty shales, dry, dense			2						
			2.2						
			2.4						
			2.6						
			2.8						
			3						
			3.2						
			3.4						
			3.6						
			3.8						
			4						
			4.2						
			4.4						
			4.6						
			4.8						
SHALE: Grey shale/rock, hard			5			Y	5	BUR_BH110_5.0	
Termination Depth at:5 m			5.2						

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BORE LOG ID BUR_BH111

Client: AFJV
Project No: 0628507
Project Name: SMW_Burwood
Site Address: Crn Parramatta Rd and Burwood Rd
Drilling Date: 20/12/2021 - 20/12/2021

Drilling Method: Augering Solid Fligh
Hole Diam./Width (mm): 125
Surface Completion: Backfill
Final Water Level (m bgl):

Elevation (Ground):
Elevation (Case):
Easting (MGA): -33.868646
Northing (MGA): 151.106895

Comments:

Log By: MB/TR
Checked By:

Material Description	Symbol	Well Diagram	Depth (m)	% Recovery	Sample Type	Analysed	PID	Samples	Additional Observations
CONCRETE: Concrete Slab			0.2			Y	0.2	BUR_BH111_0.2	
FILL: Brown silty gravelly Fill, poorly sorted, large rock and gravel inclusions			0.4			Y	0.5	BUR_BH111_0.5	
FILL: Dark brown clay fill, plastic, trace plastic, concrete and brick fragments			0.6						
CLAY: Brown/grey clay, dense, plastic, more shale with depth (Natural)			0.8						
			1						
			1.2						
			1.4						
			1.6						
			1.8						
			2			Y	1.1	BUR_BH111_2.0	
SHALE: Grey shale/rock, hard			2.2						
			2.4						
			2.6						
			2.8						
			3						
			3.2						
			3.4						
			3.6						
			3.8						
			4						
			4.2						
			4.4						
			4.6						
			4.8						
			5			Y		BUR_BH111_5.0	
Termination Depth at:5 m			5.2						

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BORE LOG ID BUR_BH112

Client: AFJV
Project No: 0628507
Project Name: SMW_Burwood
Site Address: Crn Parramatta Rd and Burwood Rd
Drilling Date: 21/12/2021 - 21/12/2021

Drilling Method: Augering Solid Fligh
Hole Diam./Width (mm): 125
Surface Completion: Backfill
Final Water Level (m bgl):

Elevation (Ground):
Elevation (Case):
Easting (MGA): -33.868995
Northing (MGA): 151.107145

Comments:

Log By: MB/TR
Checked By:

Material Description	Symbol	Well Diagram	Depth (m)	% Recovery	Sample Type	Analysed	PID	Samples	Additional Observations
CONCRETE: Concrete Slab			0.2			Y	0.4	BUR_BH112_0.2	
FILL: Brown silty clay fill with gravels			0.4			Y	0.5	BUR_BH112_0.5	
CLAY: Red/grey mottled clay, medium to low plasticity (Natural)			0.6 0.8 1 1.2 1.4						
SHALE: Light grey/grey shales, hard			1.6 1.8 2 2.2 2.4 2.6 2.8 3 3.2 3.4						
SHALE: Dark grey/brown silty shale, dry, dense, hard			3.6 3.8 4 4.2 4.4 4.6 4.8 5			Y	0.1	BUR_BH112_5.0	
Termination Depth at:5 m			5.2						

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BORE LOG ID BUR_BH113

Client: AFJV
Project No: 0628507
Project Name: SMW_Burwood
Site Address: Crn Parramatta Rd and Burwood Rd
Drilling Date: 20/12/2021 - 20/12/2021

Drilling Method: Augering Solid Fligh
Hole Diam./Width (mm): 125
Surface Completion: Backfill
Final Water Level (m bgl):

Elevation (Ground):
Elevation (Case):
Easting (MGA): -33.868715
Northing (MGA): 151.107292

Comments:

Log By: MB/TR
Checked By:

Material Description	Symbol	Well Diagram	Depth (m)	% Recovery	Sample Type	Analysed	PID	Samples	Additional Observations
CONCRETE: Concrete Slab			0.2			Y	1.8	BUR_BH113_0.2	
SANDY CLAY: Brown/red sandy clay, trace gravels CLAY: Grey mottled red clay with claystone, medium plasticity (Natural)			0.4 0.6 0.8 1			Y	0.5	BUR_BH113_1.0	
SHALE: Grey/red shales, hard			1.2 1.4 1.6 1.8 2 2.2 2.4 2.6 2.8			Y	0.3	BUR_BH113_2.0	
SHALE: Brown/grey silty shale, rock, hard			3 3.2 3.4 3.6 3.8 4 4.2 4.4 4.6 4.8 5			Y		BUR_BH113_5.0	
Termination Depth at:5 m			5.2						

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BORE LOG ID BUR_BH114

Client: AFJV
Project No: 0628507
Project Name: SMW_Burwood
Site Address: Crn Parramatta Rd and Burwood Rd
Drilling Date: 20/12/2021 - 20/12/2021

Drilling Method: Augering Solid Fligh
Hole Diam./Width (mm): 125
Surface Completion: Backfill
Final Water Level (m bgl):

Elevation (Ground):
Elevation (Case):
Easting (MGA): -33.868715
Northing (MGA): 151.107292

Comments:

Log By: MB/TR
Checked By:

Material Description	Symbol	Well Diagram	Depth (m)	% Recovery	Sample Type	Analysed	PID	Samples	Additional Observations
CONCRETE: Concrete Slab						Y	0.4	BUR_BH114_0.2	
FILL: Brown/red sandy fill, trace gravels, crushed brick and ceramic						Y	1	BUR_BH114_0.5	
CLAY: Grey mottled red clay, medium plasticity, harder with depth (Natural)			1						
CLAY: Grey shaley clay, hard			2						
			3						
			4						
			5			Y	0.2	BUR_BH114_5.0	
SHALE: Dark grey shale, rock, hard, dense			6						
			7						
			8						
SILTSTONE: Light grey siltstone, hard			9						
			10			Y	0.3	BUR_BH114_10.0	
			11						
			12						
			13						
			14						
			15			Y	0.4	BUR_BH114_15.0	
Termination Depth at:15 m			16						
			17						
			18						
			19						

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BORE LOG ID BUR_BH115

Client: AFJV
Project No: 0628507
Project Name: SMW_Burwood
Site Address: Crn Parramatta Rd and Burwood Rd
Drilling Date: 21/12/2021 - 21/12/2021

Drilling Method: Augering Solid Fligh
Hole Diam./Width (mm): 125
Surface Completion: Backfill
Final Water Level (m bgl):

Elevation (Ground):
Elevation (Case):
Easting (MGA): -33.868949
Northing (MGA): 151.105557

Comments:

Log By: MB/TR
Checked By:

Material Description	Depth (m)	Analysed	PID	Samples
CONCRETE: Concrete Slab		Y	0.6	BUR_BH115_0.2
FILL: Brown/black sandy fill, with gravels and bitumen		Y	0.4	BUR_BH115_0.5
FILL: Brown silty clay fill, minor gravels	1	Y	1.2	BUR_BH115_1.0
CLAY: Grey/orange clay, dense, medium-low plasticity (Natural)	2			
	3			
SHALE: Brown/grey clayey shale, hard, dry	4			
	5	Y	2.4	BUR_BH115_5.0
	6			
	7			
SILTSTONE: Grey siltstone, hard, dry	8			
	9			
	10	Y	2.1	BUR_BH115_10.0
	11			
	12			
	13			
	14			
	15	Y	1.1	BUR_BH115_15.0
Termination Depth at:15 m	16			
	17			
	18			
	19			

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BORE LOG ID BUR_BH116

Client: AFJV
Project No: 0628507
Project Name: SMW_Burwood
Site Address: Crn Parramatta Rd and Burwood Rd
Drilling Date: 21/12/2021 - 21/12/2021

Drilling Method: Augering Solid Fligh
Hole Diam./Width (mm): 125
Surface Completion: Backfill
Final Water Level (m bgl):

Elevation (Ground):
Elevation (Case):
Easting (MGA): -33.869265
Northing (MGA): 151.105606

Comments:

Log By: MB/TR
Checked By:

Material Description	Symbol	Well Diagram	Depth (m)	% Recovery	Sample Type	Analysed	PID	Samples	Additional Observations
CONCRETE: Concrete Slab									Bonded ACM fragment
FILL: Brown silty clay fill, crushed brick and gravels, ACM			0.2			Y	0.8	BUR_BH116_0.2 BUR_BH116_0.2 ACM	
			0.4			Y	0.7	BUR_BH116_0.5	
			0.6						
			0.8						
CLAY: Brown/red and grey clay, dense, medium-low plasticity (Natural)			1						
			1.2						
			1.4						
			1.6						
			1.8						
SHALE: Grey/brown silty shale, hard, dense			2						
			2.2						
			2.4						
			2.6						
			2.8						
			3			Y	0.2	BUR_BH116_3.0	
Termination Depth at:3 m			3.2						
			3.4						
			3.6						
			3.8						
			4						
			4.2						
			4.4						
			4.6						
			4.8						

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BORE LOG ID BUR_BH117

Client: AFJV
Project No: 0628507
Project Name: SMW_Burwood
Site Address: Crn Parramatta Rd and Burwood Rd
Drilling Date: 21/12/2021 - 21/12/2021

Drilling Method: Augering Solid Fligh
Hole Diam./Width (mm): 125
Surface Completion: Backfill
Final Water Level (m bgl):

Elevation (Ground):
Elevation (Case):
Easting (MGA): -33.869284
Northing (MGA): 151.105751

Comments:

Log By: MB/TR
Checked By:

Material Description	Symbol	Well Diagram	Depth (m)	% Recovery	Sample Type	Analysed	PID	Samples	Additional Observations
CONCRETE: Concrete Slab									
FILL: Dark brown silty clay fill, ceramic, brick and glass inclusions			0.2			Y	0.3	BUR_BH117_0.2	
			0.4						
			0.6						
			0.8						
CLAY: Orange/grey mottled clay, dense, dry, medium-low plasticity (Natural)			1			Y	1.5	BUR_BH117_1.0	
			1.2						
			1.4						
			1.6						
			1.8						
			2						
			2.2						
			2.4						
			2.6						
			2.8						
			3			Y		BUR_BH117_3.0	
Termination Depth at:3 m			3.2						
			3.4						
			3.6						
			3.8						
			4						
			4.2						
			4.4						
			4.6						
			4.8						

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BORE LOG ID BUR_BH118

Client: AFJV
Project No: 0628507
Project Name: SMW_Burwood
Site Address: Crn Parramatta Rd and Burwood Rd
Drilling Date: 16/12/2021 - 16/12/2021

Drilling Method: Augering Solid Fligh
Hole Diam./Width (mm): 125
Surface Completion: Backfill
Final Water Level (m bgl):

Elevation (Ground):
Elevation (Case):
Easting (MGA): -33.86826
Northing (MGA): 151.105808

Comments:

Log By: MB/TR
Checked By:

Material Description	Symbol	Well Diagram	Depth (m)	% Recovery	Sample Type	Analysed	PID	Samples	Additional Observations
ASPHALT:									
ROADBASE:			0.2			Y	2.9	BUR_BH118_0.25	
FILL: Brown Silty Clay fill low-medium plasticity, soft, slightly moist, angular to sub angular gravels			0.4						
			0.6						
SILTY CLAY: Red/orange/grey mottled silty clay, medium-high plasticity, slightly moist, soft			0.8						
			1						
			1.2						
SILTY CLAY: Grey/orange mottled silty clay, slightly moist, low-medium plasticity, hard-stiff			1.4			Y	0.2	BUR_BH118_1.5	
			1.6						
SHALE: Red/orange/grey weathered rock, hard, dry			1.8						
			2						
			2.2						
Termination Depth at:2.2 m			2.4						
			2.6						
			2.8						
			3						
			3.2						
			3.4						
			3.6						
			3.8						
			4						
			4.2						
			4.4						
			4.6						
			4.8						

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BORE LOG ID BUR_BH119

Client: AFJV
Project No: 0628507
Project Name: SMW_Burwood
Site Address: Crn Parramatta Rd and Burwood Rd
Drilling Date: 16/12/2021 - 16/12/2021

Drilling Method: Hand Augering
Hole Diam./Width (mm): 125
Surface Completion: Backfill
Final Water Level (m bgl):

Elevation (Ground):
Elevation (Case):
Easting (MGA): -33.868856
Northing (MGA): 151.105863

Comments:

Log By: MB/TR
Checked By:

Material Description	Symbol	Well Diagram	Depth (m)	% Recovery	Sample Type	Analysed	PID	Samples	Additional Observations
ASPHALT:									
ROADBASE: Roadbase with crushed sandstone			0.2			Y		BUR_BH119_0.25	
FILL: Brown silty clay, medium-high plasticity, slightly moist, angular-sub angular gravels, soft-hard			0.4 0.6 0.8						
SILTY CLAY: Grey/orange mottled silty clay, medium plasticity, slightly moist, some organic inclusions, Hard-stiff			1 1.2			Y		BUR_BH119_1.0	
Termination Depth at:1.3 m			1.4 1.6 1.8 2 2.2 2.4 2.6 2.8 3 3.2 3.4 3.6 3.8 4 4.2 4.4 4.6 4.8						

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BORE LOG ID BUR_BH120

Client: AFJV
Project No: 0628507
Project Name: SMW_Burwood
Site Address: Crn Parramatta Rd and Burwood Rd
Drilling Date: 17/12/2021 - 17/12/2021

Drilling Method: Hand Augering
Hole Diam./Width (mm): 125
Surface Completion: Backfill
Final Water Level (m bgl):

Elevation (Ground):
Elevation (Case):
Easting (MGA): -33.868504
Northing (MGA): 151.106401

Comments:

Log By: MB/TR
Checked By:

Material Description	Symbol	Well Diagram	Depth (m)	% Recovery	Sample Type	Analysed	PID	Samples	Additional Observations
CONCRETE: Concrete Slab									
ROADBASE:			0.2			Y	0.6	BUR_BH120_0.2	
FILL: Dark brown/red clay fill with trace gravels			0.4			Y	0.6	BUR_BH120_0.5	
			0.6						
			0.8						
			1						
CLAY: Grey/brown clay, soft, plastic (Natural)			1.2						
			1.4						
Termination Depth at:1.5 m			1.6						
			1.8						
			2						
			2.2						
			2.4						
			2.6						
			2.8						
			3						
			3.2						
			3.4						
			3.6						
			3.8						
			4						
			4.2						
			4.4						
			4.6						
			4.8						

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BORE LOG ID BUR_BH121

Client: AFJV
Project No: 0628507
Project Name: SMW_Burwood
Site Address: Crn Parramatta Rd and Burwood Rd
Drilling Date: 18/01/2022 - 18/01/2022

Drilling Method: Hand Augering
Hole Diam./Width (mm): 125
Surface Completion: Backfill
Final Water Level (m bgl):

Elevation (Ground):
Elevation (Case):
Easting (MGA): -33.86891
Northing (MGA): 151.1066

Comments:

Log By: MB/TR
Checked By:

Material Description	Symbol	Well Diagram	Depth (m)	% Recovery	Sample Type	Analysed	PID	Samples	Additional Observations
CONCRETE: Concrete Slab						Y	0.3	BUR_BH121_0.16	
FILL: Dark brown/grey gravelly sandy clay fill, no plasticity, high quantity of gravels (angular to sub-angular), small to large, coarse grained sand, slightly moist, medium density-dense			0.2						
Termination Depth at:0.17 m			0.4						
			0.6						
			0.8						
			1						
			1.2						
			1.4						
			1.6						
			1.8						
			2						
			2.2						
			2.4						
			2.6						
			2.8						
			3						
			3.2						
			3.4						
			3.6						
			3.8						
			4						
			4.2						
			4.4						
			4.6						
			4.8						

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BORE LOG ID BUR_BH122

Client: AFJV
Project No: 0628507
Project Name: SMW_Burwood
Site Address: Crn Parramatta Rd and Burwood Rd
Drilling Date: 18/01/2022 - 18/01/2022

Drilling Method: Hand Augering
Hole Diam./Width (mm): 125
Surface Completion: Backfill
Final Water Level (m bgl):

Elevation (Ground):
Elevation (Case):
Easting (MGA): -33.868707
Northing (MGA): 151.10724

Comments:

Log By: MB/TR
Checked By:

Material Description	Symbol	Well Diagram	Depth (m)	% Recovery	Sample Type	Analysed	PID	Samples	Additional Observations
CONCRETE: Concrete Slab						Y	0.4	BUR_BH122_0.13	
FILL: Brown clayey sandy fill, coarse, loose, very moist, minor gravels, angular to sub-angular			0.2			Y	0.1	BUR_BH122_0.3	
FILL: Brown/red mottling silty clay fill, occasional gravels (angular to sub-angular), slightly moist to moist, soft, high plasticity			0.4						
			0.6			Y	0.2	BUR_BH122_0.7	
SILTY CLAY: Red/grey mottled silty clay, low plasticity, firm-hard, dry- slightly moist, harder with increasing depth (Natural)			0.8						
Termination Depth at:0.75 m			1						
			1.2						
			1.4						
			1.6						
			1.8						
			2						
			2.2						
			2.4						
			2.6						
			2.8						
			3						
			3.2						
			3.4						
			3.6						
			3.8						
			4						
			4.2						
			4.4						
			4.6						
			4.8						

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BORE LOG ID BUR_BH123

Client: AFJV
Project No: 0628507
Project Name: SMW_Burwood
Site Address: Crn Parramatta Rd and Burwood Rd
Drilling Date: 18/01/2022 - 18/01/2022

Drilling Method: Hand Augering
Hole Diam./Width (mm): 125
Surface Completion: Backfill
Final Water Level (m bgl):

Elevation (Ground):
Elevation (Case):
Easting (MGA): -33.86893
Northing (MGA): 151.107642

Comments:

Log By: MB/TR
Checked By:

Material Description	Symbol	Well Diagram	Depth (m)	% Recovery	Sample Type	Analysed	PID	Samples	Additional Observations
CONCRETE: Concrete Slab						Y	0.3	BUR_BH123_0.12	
FILL: Brown sandy fill, coarse, loose, gravels (angular-sub-angular) inclusions			0.2			Y	0.2	BUR_BH123_0.3	
FILL: Brown with red mottling silty clay fill, medium-high plasticity, slightly moist, soft			0.4						
SILTY CLAY: Red/brown/orange mottled clay, medium-high plasticity, slightly moist, soft -hard increasing with depth (Natural)			0.6						
			0.8						
			1			Y	0.4	BUR_BH123_1.0	
			1.2						
			1.4						
Termination Depth at:1.4 m			1.6						
			1.8						
			2						
			2.2						
			2.4						
			2.6						
			2.8						
			3						
			3.2						
			3.4						
			3.6						
			3.8						
			4						
			4.2						
			4.4						
			4.6						
			4.8						

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BORE LOG ID BUR_BH124

Client: AFJV
Project No: 0628507
Project Name: SMW_Burwood
Site Address: Crn Parramatta Rd and Burwood Rd
Drilling Date: 18/01/2022 - 18/01/2022

Drilling Method: Hand Augering
Hole Diam./Width (mm): 125
Surface Completion: Backfill
Final Water Level (m bgl):

Elevation (Ground):
Elevation (Case):
Easting (MGA): -33.868676
Northing (MGA): 151.106783

Comments:

Log By: MB/TR
Checked By:

Material Description	Symbol	Well Diagram	Depth (m)	% Recovery	Sample Type	Analysed	PID	Samples	Additional Observations
CONCRETE: Concrete Slab						Y	0.2	BUR_BH124_0.15	
FILL: Dark brown/grey gravelly sandy clay fill, no plasticity, high quantity of gravels (angular to sub-angular), small to large, coarse grained sand, slightly moist, medium density-dense			0.2						
Termination Depth at:0.16 m			0.4						
			0.6						
			0.8						
			1						
			1.2						
			1.4						
			1.6						
			1.8						
			2						
			2.2						
			2.4						
			2.6						
			2.8						
			3						
			3.2						
			3.4						
			3.6						
			3.8						
			4						
			4.2						
			4.4						
			4.6						
			4.8						

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BORE LOG ID BUR_BH125

Client: AFJV
Project No: 0628507
Project Name: SMW_Burwood
Site Address: Crn Parramatta Rd and Burwood Rd
Drilling Date: 21/12/2021 - 21/12/2021

Drilling Method: Augering Solid Fligh
Hole Diam./Width (mm): 125
Surface Completion: Backfill
Final Water Level (m bgl):

Elevation (Ground):
Elevation (Case):
Easting (MGA): -33.869187
Northing (MGA): 151.105415

Comments:

Log By: MB/TR
Checked By:

Material Description	Symbol	Well Diagram	Depth (m)	% Recovery	Sample Type	Analysed	PID	Samples	Additional Observations
CONCRETE: Concrete Slab									
FILL: Brown silty clay fill, bricks and sheep bone			0.2			Y	2.8	BUR_BH125_0.2	
			0.4			Y		BUR_BH125_0.5	
			0.6						
			0.8						
FILL: Brown silty clay fill, low plasticity, trace gravels and bitumen			1			Y	2.1	BUR_BH125_1.0	
CLAY: Orange/grey mottled clay, dense, medium plasticity (Natural)			1.2						
			1.4						
			1.6						
			1.8						
SHALE: Grey clayey Shale, hard			2						
			2.2						
			2.4						
			2.6						
			2.8						
			3						
			3.2						
			3.4						
			3.6						
			3.8						
			4						
			4.2						
			4.4						
			4.6						
			4.8						
			5			Y		BUR_BH125_5.0	
Termination Depth at:5 m			5.2						

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APPENDIX C FIELD NOTES AND CALIBRATION RECORDS

PID Calibration and Bump Test

Week Starting: 17-1-22

Model: TIGER | Serial Number: ERM PID05 | Project Number: 0628507

Day 1	Date:	17-1-22		Desired	Actual	Calibrated by	Comments
Calibration	Fresh air:	0.0	Isobutylene:	100.0	100.1	AR	
Day 2	**Date:**	18-1-22		**Desired**	**Actual**	**Calibrated by**	**Comments**
Bump	Fresh air:	0.0	Isobutylene:	100.0	100.3	AR	
Day 3	**Date:**	19-1-22		**Desired**	**Actual**	**Calibrated by**	**Comments**
Bump	Fresh air:	0.0	Isobutylene:	100.0	100.5	AR	
Day 4	**Date:**	20-1-22		**Desired**	**Actual**	**Calibrated by**	**Comments**
Bump	Fresh air:	0.0	Isobutylene:	100.0	100.3	AR	
Day 5	**Date:**	21-1-22		**Desired**	**Actual**	**Calibrated by**	**Comments**
Bump	Fresh air:	0.0	Isobutylene:	100.0	100.1	AR	
Day 6	**Date:**	24-1-22		**Desired**	**Actual**	**Calibrated by**	**Comments**
Bump	Fresh air:	0.0	Isobutylene:	100.0	100.7	AR	
Day 7	**Date:**	25-1-22		**Desired**	**Actual**	**Calibrated by**	**Comments**
Bump	Fresh air:	0.0	Isobutylene:	100.0	100.8	AR	
Extra Calibration If needed	**Date:**			**Desired**	**Actual**	**Calibrated by**	**Comments**
	Fresh air:		Isobutylene:				

Even if bump test is not done due to no use for the PID, please dash boxes (do not leave blank).

If bump test fails, please calibrate again.

ERM

PID Calibration Certificate

Instrument **PhoCheck Tiger**
Serial No. **T-105867**

Air-Met Scientific Pty Ltd
1300 137 067

Item	Test	Pass	Comments			
Battery	Charge Condition	✓				
	Fuses	✓				
	Capacity	✓				
	Recharge OK?	✓				
Switch/keypad	Operation	✓				
Display	Intensity	✓				
	Operation (segments)	✓				
Grill Filter	Condition	✓				
	Seal	✓				
Pump	Operation	✓				
	Filter	✓				
	Flow	✓				
	Valves, Diaphragm	✓				
PCB	Condition	✓				
Connectors	Condition	✓				
Sensor	PID	✓	10.6 ev			
Alarms	Beeper	✓	Low	High	TWA	STEL
	Settings	✓	50ppm	100ppm		
Software	Version	✓				
Data logger	Operation	✓				
Download	Operation	✓				
Other tests:						

Certificate of Calibration

This is to certify that the above instrument has been calibrated to the following specifications:

Diffusion mode Aspirated mode

Sensor	Serial no	Calibration gas and concentration	Certified	Gas bottle No		Instrument Reading
PID Lamp		93 ppm Isobutylene	NATA	SY361		92.8 ppm

Calibrated by: **Gary Needs**

Calibration date: **14/12/2021**

Next calibration due: **12/06/2022**

ERM

Environmental Resources Management Australia Pty Ltd

PID Calibration Certificate

Project Name :	AFJV Burwood	**Project Staff :**	TR
Project No :	0577577	**Date :**	15/12/21 16/12/21 17/12/21

Photo-ionisation Detector

Make/Model No:	TIGER, Photocheck
Serial Number:	T-105867

Calibration Gas

Calibration Gas:	Isobutylene

PID Calibration

	15/12	16/12	17/12	20/12	21/12
Zero Calibration					
PID Reading:	0.4	0.3	0.1	0.2	0.1
Span Calibration	15				
Desired PID Reading:	100.0	100	100	100	100
Actual PID Reading:	100.1	100.1	100.1	100.2	100.1

Certification

The above detector has been calibrated in accordance with the manufacturers specifications.

Checked By:	Tristan			
Signature:			Date:	15/12/21 16/12/21 17/12/21 20/12/21 21/12/21

APPENDIX D DATA QUALITY ASSESSMENT

1. QUALITY ASSURANCE AND QUALITY CONTROL

The objective of this data assessment is to evaluate the quality of data gathered during the assessment detailed in this report. This process has been undertaken to assess whether the sample data is of a suitable standard to be utilised in this report. The data assessment consists of comparing field and laboratory QA/QC results to documented NEPC, ANZECC, USEPA SW-846 guidelines, USEPA CLP National Functional Guidelines for Inorganic and Organic Data Review, and other internationally recognised publications. The data assessment has been prepared in accordance with the ASC NEPM. Particular reference is made to the PARCC parameters (precision, accuracy, representativeness, completeness and comparability) in evaluating the data quality.

Table D1 below discusses the QA/QC measures pertinent to the site investigation sampling. *Table D2* presented at the end of this annex identifies laboratory reports relevant to the investigation works.

Table D1 Field QA/QC Assessment

QA/QC Criterion	Comments
QA/QC program includes intra-laboratory duplicates and inter-laboratory duplicates samples	**Soil:** Field duplicate samples, including intra and inter laboratory duplicates were collected at a minimum ratio of one duplicate to twenty primary samples (5%). For PFAS sampling, intra and inter laboratory duplicates were collected at a minimum ratio of one duplicate to ten primary samples (10%) The Relative Percentage Difference (RPDs) of soil duplicate sample pairs were generally within the acceptance limits (30% RPD (or 50% RPD for organics) where one or both values were greater than 10 x LOR or 50% RPD where one or both values were less than 10 x LOR). RPDs for all soil duplicate pairs are presented in Table D-4. Based on the results obtained from the soil RPDs, it is considered that the dataset quality is adequate and acceptable for the purposes of the Detailed Site Investigation. The following information is noted: Of the 84 primary soil samples analysed, one intra-laboratory field duplicate sample and one inter-laboratory field duplicate sample were collected, at a rate of 9.5% for each, which was above the required frequency of 5%. Soil samples were not homogenised prior to splitting to minimise potential loss of volatile analytes. A total of 2381 soil RPDs were calculated, the majority of which were reported to be within the aforementioned criteria, with 114 soil RPD results (3.8%) reported outside of RPD limits, with 88 of those were for sample results <10 times the LOR. 98.9% of the RPD results were reported within the acceptable range, Exceedances of the soil RPD criteria were considered likely to be due to matrix heterogeneity between primary and duplicate samples collected of fill materials from the site. In all instances, soil results from both primary and duplicate samples have been used for the purpose of the investigations. As such, where duplicate RPDs for soil were reported outside of acceptable limits, the variability in concentrations between samples have been accounted for in decision-making, and are therefore not considered to affect the overall conclusions or usability of the dataset as a whole. Table D-1a presents a summary of the soil duplicate RPD results. Duplicate samples were not collected during ADE's supplementary sampling works, but as samples were for asbestos identification/quantification only this was not considered necessary due to the heterogeneous nature of asbestos in fill. **Groundwater:** Field duplicate samples were not collected from either of the two groundwater wells sampled at the Burwood site. Groundwater sampling at Burwood was completed alongside a groundwater sampling programme that included groundwater wells across the Sydney Metro West Central Package alignment.(from Sydney Olympic Park to The

QA/QC Criterion	Comments
	Bays sites). An Inter-laboratory duplicate sample (T01_220119) and an intra-laboratory duplicate sample (D01-220119) were collected from SMW_BH19 (at the Sydney Olympic Park site) on 19 January 2022 as part of this program of works. RPDs for these duplicate pairs are provided in Table D1b. The Relative Percentage Difference (RPDs) of both of these duplicate sample pairs were generally within the acceptance limits (30% RPD (or 50% RPD for organics) where one or both values were greater than 10 x LOR or 50% RPD where one or both values were less than 10 x LOR). A total of 265 groundwater RPDs were calculated, the majority of which were reported to be within the aforementioned criteria, with 4 groundwater RPD results (1.5%) reported outside of RPD limits, it is noted that all of these related to sample results <10 times the LOR. 98.5% of the RPD results were reported within the acceptable range, While the duplicate samples collected were not from the Burwood site, they were collected as part of the same sampling programme by the same field team, using the same equipment and methodology and results were analysed by the same laboratories, therefore conclusions relating to data accuracy are considered relevant for the samples collected at the Burwood site. Table D-1b presents a summary of the water duplicate RPD results.
Appropriate decontamination procedures were adopted	**Soil:** Samples were collected using a fresh pair of nitrile gloves. Soils were either collected from the push tube sleeve, hand auger, solid flight auger or from cutting from air rotary drilling. Decontamination of down hole drilling equipment prior to starting each new location was conducted, and collection of rinsate samples was conducted to evaluate the decontamination process. No detections of analytes were reported in rinsate samples, demonstrating effective decontamination was achieved. ADE followed a similar methodology. A reinstate sample was not collected by ADE as sampling was focussed on asbestos only. **Groundwater:** Groundwater sampling equipment was decontaminated using a solution of water and Liquinox between sampling locations. Dedicated bailers were used to collect PFAS samples prior to lowering the bladder pump into the well (to remove the opportunity for cross contamination and detection of PFAS at low concentrations). Remaining analytes were sampled using the decontaminated bladder pump. A rinsate sample was collected each day groundwater was sampled during the groundwater field programme. No detections were reported within rinsate samples collected on the days in which Burwoood wells were sampled (20 and 21 January 2022). Rinsate sample results are provided in Tables D2a and D2b.
All relevant media assessed	The scope involved soil and groundwater sampling. Soil samples were collected from various depths within the soil profile and were submitted for laboratory analysis. Groundwater sampling was conducted at depths representative of the Sites groundwater and as part of a larger groundwater monitoring program across multiple Sydney Metro Station sites.
Appropriateness of Sampling Strategy	**Soil:** Investigation locations were chosen to provide adequate coverage of the Site and assess potential sources of contamination. Additionally to provide waste classification data for materials within the Station Box. A sampling strategy was designed based on the conceptual site model and is considered appropriate to meet the project objectives.

QA/QC Criterion	Comments
	ADE's supplementary sampling works were to allow for delineation of hotspots, and provide increased sample density to allow decisions to be made with regard to the extent asbestos in fill at the site. **Groundwater:** Three of the locations proposed to be sampled as part of the groundwater investigation were not able to be sampled due to being destroyed, inaccessible or dry. While data from two wells is not sufficient for establishing groundwater flow direction and gradient, the samples provided characterisation of the groundwater quality at the site.
Trip Blank and Trip Spikes Collected	**Soil:** A total of three laboratory-prepared soil trip blank samples were prepared, stored and transported with soil samples. Summary tables of results for soil trip blanks are presented in Table D-3a. The concentrations of COPCs (BTEX) in soil trip blanks were reported below the laboratory LOR for all samples analysed, indicating a low likelihood of cross-contamination having occurred during transport and storage of samples. A total of three laboratory prepared soil trip spike (TS) samples were analysed as part of the investigation. Trip spike recovery percentages reported by the laboratory are presented in Table D-4a. Trip spikes submitted with soil batches were all reported within the acceptable recovery range (70-130%) with the exception of one Trip spike reporting a recovery of Benzene of 67%. As all samples reported no detections of Benzene and were consistent across multiple sampling events, this result is not considered to be significant and indicates a low likelihood of volatile loss having occurred during transport and storage of samples. Trip blanks and spikes were not required during the asbestos investigation conducted by ADE as soils were not being tested for volatile contaminants. **Groundwater:** Laboratory-prepared water trip blank samples were prepared, stored and transported with samples during the groundwater analytical programme. A trip blank sample was included in each batch of samples to the laboratory and the trip blank samples within laboratory batches ES2202047 and ES2201979 are relevant to the groundwater samples collected from the Burwood site. Summary tables of results for water trip blanks are presented in Table D-3b. The concentrations of COPCs (BTEX) in water trip blanks were reported below the laboratory LOR for all samples analysed, indicating a low likelihood of cross-contamination having occurred during transport and storage of samples. A total of two laboratory prepared trip spike (TS) samples were analysed as part of the investigation. Trip spike recovery percentages reported by the laboratory are presented in Table D-4b. Recoveries of spiked compounds in the trip spike sample in batch ES2202047 were all reported within the acceptable recovery range (70-130%). This indicates a low likelihood of volatile loss having occurred during transport and storage of samples. The trip spike sample within batch ES2202047 contained no detectable BTEX or naphthalene. The absence of any concentrations indicates this is a mislabelled trip blank sample. This has been confirmed by the laboratory (email correspondence provided at the end of this section).

QA/QC Criterion	Comments
Sample Collection, handling, and transportation procedures	**Soil:** Borelogs describing the media sampled, sampling locations, observations of potential contamination (e.g. odour) and field QA/QC samples were completed. Soil encountered was also photographed. (refer to *Appendices A and B).* Soil samples were placed in laboratory supplied sample jars, stored in a chilled cooler on ice, and forwarded to the NATA-accredited laboratory under COC conditions. **Groundwater:** Groundwater samples were collected following 'low-flow' purging of the water in the monitoring well and stabilisation of field parameters. Water was pumped directly into the laboratory supplied sample containers. And placed in an insulated cooler on ice prior to transportation to the NATA-accredited laboratory under COC conditions The methods used to collect the samples, the types of sample containers, preservation techniques and custody protocols were generally documented appropriately. Attempts to chill were recorded as present by the laboratory upon sample receipt.
Sampling is representative of the site conditions	**Soil:** The number and type of samples collected were considered to be appropriate and in accordance with the NSW EPA Sampling Design Guidelines (1995) with minimum sampling density requirement for the site having been achieved. Limitations related to characterisation of asbestos in fill using soil bores are acknowledged. The supplementary sampling works conducted by ADE involved test pits and asbestos quantification sampling where possible (3 locations), however access continued to be constrain in most parts of the site and boreholes were required for the remainder of the locations. **Groundwater:** The two groundwater samples collected from wells at the site provide representative information on the groundwater quality at the site. Groundwater flow direction and gradient were not able to be established, but characterisation of groundwater to enable decisions to be made regarding site suitability was achieved, meeting the DSI objective.
Other field QA/QC	**Soil and groundwater:** Field instruments used as part of the investigation were appropriately calibrated and used according to the manufacturer's instructions. Calibration records are included in Appendix C.

Table D2 below summarises the laboratory's QA/QC measures pertinent to the analytical program.

Table D2 Laboratory QA/QC Assessment

QA/QC criterion	Comments
Appropriate methodologies used for sample analyses	The laboratories used for the investigation works were NATA accredited ALS (NATA Registration No. 825) and Eurofins (NATA Registration No. 1261). All laboratory reports were NATA stamped and signed by a NATA signatory. All methodologies were considered appropriate for the identified contaminants of concern in the matrix.
Appropriate Limit of Reporting	The laboratory LOR for each analyte is presented in the laboratory reports and summary tables. LORs were appropriate to allow screening of results against the nominated criteria.
Laboratory QA/QC Plan	Copies of signed chain of custody forms were returned by the laboratory. The primary and secondary laboratories were NATA accredited. It is noted that all analytical methods completed were NATA approved as documented on the laboratory reports. Laboratory reports indicate results not covered by NATA accreditation which were limited to calculations of totals (e.g. total BTEX, total PAH). Laboratory quality control samples included laboratory control samples, internal duplicates, matrix spikes and method blanks. The types of QA/QC samples analysed by the laboratory for the documented samples were considered sufficient to assess the precision and accuracy of the laboratory methods used. The statistical data presented in the laboratory QA/QC reports were considered adequate in demonstrating the precision and accuracy of the methods used to analyse field samples. Laboratory duplicate RPDs, surrogate recoveries, matrix spike recoveries and laboratory control samples were generally within the acceptable ranges although there were some exceptions as noted in the laboratory reports. The noted exceptions were considered minor and ERM considers the laboratory data is of acceptable quality for the purposes of this s DSI.

Table D3 summarises the QA/QC results in relation to the data quality indicators of precision, accuracy, representativeness, comparability and completeness for the investigation sampling program.

Table D3 Overall Sampling and Analysis Methodology Assessment

Field Considerations	Laboratory Considerations
Precision Requirements	
The soil and groundwater sampling was conducted following ERM's SOPs and any variations from these procedures were documented.	Analysis of the following were reported: ■ Laboratory duplicates; and ■ Field intra- and inter- laboratory duplicates;
Precision Comments	
No significant variations from ERM's SOPs were noted. Field and laboratory duplicates were generally reported within the acceptance limits. Minor exceedances were noted, as presented in *Tables D-1a,* and indicate heterogeneous soil samples.	

Accuracy Requirements	
The soil sampling was conducted following ERM's SOPs and any variations from these procedures were documented.	Analysis of the following were reported: ■ Trip blanks; ■ Method blanks; ■ Matrix spikes; ■ Surrogate spikes; and ■ Laboratory control samples.

Accuracy Comments

Decontamination of the down hole drilling equipment was conducted prior to drilling at each location. Groundwater sampling equipment was also decontaminated between each location. Rinsate samples were collected and considered acceptable for the purposes of this investigation with no non-conformances reported. Indicating decontamination procedures were adequate.

No significant variations from ERM SOPs were noted. Laboratory QA/QC samples were generally reported within the acceptance limits specified in the laboratory reports.

Representativeness Requirements	
Appropriate media were identified and sampled.	Samples were analysed according to the Sampling and Analysis Plan.

Representativeness Comments

The number and type of samples collected as part of investigation works was considered to be representative of the Site The number and locations of boreholes was generally in accordance with the SAQP. ERM considers that sufficient data is available to establish a representative dataset across the site for the purposes of the investigation. While access constraints limited test pitting in many areas of the site, the additional sampling for asbestos containing material and asbestos fines conducted by ADE provided greater spread of characterisation of fill.

Comparability Requirements	
■ SOPs were used. ■ All sampling was conducted by an appropriately qualified and experienced sampler. ■ Impacts of climatic conditions on sample integrity were minimised by storing samples in a chilled cooler (with the exception of soil vapour samples). ■ The types of samples collected were consistent.	■ Analytical methods suitable for the target media were used. ■ The laboratory LORs used to report analyte concentrations were less than the adopted investigation criteria. ■ Results of laboratory analysis comparable with field screening results where applicable (field observations, PID screening).

Comparability Comments

The laboratory LOR for each analyte is presented in the laboratory reports and summary tables.

Completeness Requirements

- Relevant locations were sampled.
- The sampling program was conducted following ERM's SOPs and any variations from these procedures were documented.
- All sampling was conducted by an appropriately qualified and experienced sampler.
- Documentation of field works was provided (refer Appendices A, B and C).
- All critical samples were analysed.
- All analytes were analysed according to the Sampling and Analysis Plan.
- Appropriate analysis methods and laboratory LORs were used in the majority of cases.
- Sample documentation was provided.
- Sample holding times were generally complied with.

Completeness Comments

The number and type of samples collected were considered to be representative of the Site. Evaluation of soil for asbestos in fill was only able to be done to a limited degree due to boreholes being used to collect samples and inspect soil.

Field Duplicates (SOIL)	Lab Report Number	ES2146476	ES2146476		ES2146625	ES2146625		ES2146625	ES2146625		ES2146625	ES2146625		ES2146990	ES2146990		ES2146990	ES2146990		ES2146990
Filter: Lab_Report_Nu	Field ID	BUR_BH103_0.1	D01_20211216	RPD	BUR_BH107_3.0	D03_20211217	RPD	BUR_BH108_0.2	D04_20211217	RPD	BUR_BH106_4.0	D02_20211217	RPD	BUR_BH111_0.5	D05_20211220	RPD	BUR_BH113_2.0	D06__2021220	RPD	BUR_BH117_0.2
	Sampled Date/Time	16/12/2021 15:00	16/12/2021 15:00		17/12/2021 15:00	17/12/2021 15:00		17/12/2021 15:00	17/12/2021 15:00		17/12/2021 15:00	17/12/2021 15:00		20/12/2021 15:00	20/12/2021 15:00		20/12/2021 15:00	20/12/2021 15:00		21/12/2021 15:00
Chem_Gr	**ChemNam**	**Units**	**EQL**																	
Chlorinated	1,2,3-trichl	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.5	0	<0.5
	1,2,4-trichl	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.5	0	<0.5
	1,2-dichlor	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.5	0	<0.5
	1,3-dichlor	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.5	0	<0.5
	1,4-dichlor	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.5	0	<0.5
	Chloroben	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.5	0	<0.5
l HCs																						
Moisture C	Moisture C	%	1	18.3	20.3	10											25.2	28.4	12	**7.0**	**<1.0**	**150**	21.2
	Moisture C	%	0.1				11.5	11.1	4	26.2	25.7	2	8.6	8.0	7							
ontent																						
Naphthalen	Naphthalen	mg/kg	1 (Primary): 0.5 (Interlab)				<1.0	<1.0	0	<1.0	<1.0	0	<1.0	<1.0	0				<1.0	<1.0	0	<1.0
	Naphthalen	mg/kg	1 (Primary): 0.5 (Interlab)	<1.0	<1.0	0	<1.0	<1.0	0	<1.0	<1.0	0	<1.0	<1.0	0	<1.0	<1.0	0	<1.0	<1.0	0	<1.0
	Naphthalen	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5
e																						
PAH/Phen	Acenaphth	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5
	Acenaphth	mg/kg	0.5	1.6	1.9	17	<0.5	<0.5	0	0.7	0.7	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5
	Anthracene	mg/kg	0.5	2.2	2.3	4	<0.5	<0.5	0	1.3	1.2	8	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5
	Fluoranthe	mg/kg	0.5	13.6	15.2	11	<0.5	<0.5	0	9.4	7.9	17	<0.5	<0.5	0	0.8	<0.5	46	<0.5	<0.5	0	1.9
	Fluorene	mg/kg	0.5	0.6	0.6	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5
	Benz(a)ant	mg/kg	0.5	7.2	8.2	13	<0.5	<0.5	0	4.4	3.8	15	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	0.9
	Benzo(a)py	mg/kg	0.5	6.5	7.4	13	<0.5	<0.5	0	4.2	3.8	10	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	1.1
	Benzo(a)py	mg/kg	0.5	9.6	11.0	14	0.6	0.6	0	6.2	5.5	12	0.6	0.6	0	0.6	0.6	0	0.6	0.6	0	1.7
	Benzo(a)py	mg/kg	0.5	9.6	11.0	14	1.2	1.2	0	6.2	5.5	12	1.2	1.2	0	1.2	1.2	0	1.2	1.2	0	1.9
	Benzo(a)py	mg/kg	0.5	9.6	11.0	14	<0.5	<0.5	0	6.2	5.5	12	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	1.4
	Benzo(b+j)	mg/kg	0.5	8.2	9.1	10	<0.5	<0.5	0	4.7	4.2	11	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	1.2
	Benzo(g.h.	mg/kg	0.5	4.0	4.5	12	<0.5	<0.5	0	2.4	2.3	4	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	0.7
	Benzo(k)flu	mg/kg	0.5	3.2	3.7	14	<0.5	<0.5	0	1.9	1.7	11	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5
	Chrysene	mg/kg	0.5	6.3	7.2	13	<0.5	<0.5	0	3.9	3.4	14	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	0.9
	Dibenz(a.h	mg/kg	0.5	0.8	1.0	22	<0.5	<0.5	0	0.6	0.5	18	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5
	Indeno(1.2	mg/kg	0.5	3.5	3.9	11	<0.5	<0.5	0	2.2	2.0	10	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	0.6
	Phenanthre	mg/kg	0.5	8.1	8.5	5	<0.5	<0.5	0	5.8	4.9	17	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	0.9
	Pyrene	mg/kg	0.5	12.9	14.5	12	<0.5	<0.5	0	8.8	7.5	16	<0.5	<0.5	0	0.8	<0.5	46	<0.5	<0.5	0	1.9
	Sum of pol	mg/kg	0.5	78.7	88.0	11	<0.5	<0.5	0	50.3	43.9	14	<0.5	<0.5	0	**1.6**	**<0.5**	**105**	<0.5	<0.5	0	10.1
ols (SIM)																						
Per- and P	10:2 Fluord	µg/kg	0.5 (Primary): 5 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0				<0.5
	4:2 Fluorot	µg/kg	0.5 (Primary): 5 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0				<0.5
	6:2 Fluorot	µg/kg	0.5 (Primary): 10 (Interlab	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0				<0.5
	8:2 Fluorot	µg/kg	0.5 (Primary): 5 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0				<0.5
	N-Ethyl per	µg/kg	0.5 (Primary): 5 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0				<0.5
	N-Ethyl per	µg/kg	0.2 (Primary): 10 (Interlab	<0.2	<0.2	0	<0.2	<0.2	0	<0.2	<0.2	0	<0.2	<0.2	0	<0.2	<0.2	0				<0.2
	N-Ethyl per	µg/kg	0.5 (Primary): 5 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0				<0.5
	N-Methyl p	µg/kg	0.5 (Primary): 5 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0				<0.5
	N-Methyl p	µg/kg	0.2 (Primary): 10 (Interlab	<0.2	<0.2	0	<0.2	<0.2	0	<0.2	<0.2	0	<0.2	<0.2	0	<0.2	<0.2	0				<0.2
	N-Methyl p	µg/kg	0.5 (Primary): 5 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0				<0.5
	Perfluorobu	µg/kg	1 (Primary): 5 (Interlab)	<1.0	<1.0	0	<1.0	<1.0	0	<1.0	<1.0	0	<1.0	<1.0	0	<1.0	<1.0	0				<1.0
	Perfluoroh	µg/kg	0.2 (Primary): 5 (Interlab)	<0.2	<0.2	0	<0.2	<0.2	0	<0.2	<0.2	0	<0.2	<0.2	0	<0.2	<0.2	0				<0.2
	Perfluorood	µg/kg	0.2 (Primary): 5 (Interlab)	4.0	3.9	3	<0.2	<0.2	0	<0.2	0.3	40	<0.2	<0.2	0	**1.0**	**0.3**	**108**				1.8
	Perfluorope	µg/kg	0.2 (Primary): 5 (Interlab)	<0.2	<0.2	0	<0.2	<0.2	0	<0.2	<0.2	0	<0.2	<0.2	0	<0.2	<0.2	0				<0.2
	Perfluorop	µg/kg	0.2 (Primary): 5 (Interlab)	<0.2	0.2	0	<0.2	<0.2	0	<0.2	<0.2	0	<0.2	<0.2	0	<0.2	<0.2	0				<0.2
	Perfluorood	µg/kg	0.2 (Primary): 5 (Interlab)	0.3	0.3	0	<0.2	<0.2	0	<0.2	<0.2	0	<0.2	<0.2	0	<0.2	0.2	0				0.2
	Perfluorote	µg/kg	0.5 (Primary): 5 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0				<0.5
	Perfluorotri	µg/kg	0.2 (Primary): 5 (Interlab)	<0.2	<0.2	0	<0.2	<0.2	0	<0.2	<0.2	0	<0.2	<0.2	0	<0.2	<0.2	0				<0.2
	Sum of PF	µg/kg	0.2 (Primary): 50 (Interlab	5.5	5.3	4	<0.2	<0.2	0	<0.2	0.3	40	<0.2	<0.2	0	**1.3**	**0.5**	**89**				2.0
	Sum of PF	µg/kg	0.2 (Primary): 10 (Interlab	4.3	4.4	2	<0.2	<0.2	0	<0.2	0.3	40	<0.2	<0.2	0	**1.0**	**0.5**	**67**				2.0
	Sum of PF	µg/kg	0.2 (Primary): 5 (Interlab)	4.0	3.9	3	<0.2	<0.2	0	<0.2	0.3	40	<0.2	<0.2	0	**1.0**	**0.3**	**108**				1.8
olyfluoroalkyl Subst																						
PFOS and	Perfluorobu	mg/kg	0.0002 (Primary): 0.005 (	<0.0002	<0.0002	0	<0.0002	<0.0002	0	<0.0002	<0.0002	0	<0.0002	<0.0002	0	<0.0002	<0.0002	0				<0.0002
	Perfluorod	mg/kg	0.0002 (Primary): 0.005 (	<0.0002	<0.0002	0	<0.0002	<0.0002	0	<0.0002	<0.0002	0	<0.0002	<0.0002	0	<0.0002	<0.0002	0				<0.0002
	Perfluorod	mg/kg	0.0002 (Primary): 0.005 (	0.0007	0.0006	15	<0.0002	<0.0002	0	<0.0002	<0.0002	0	<0.0002	<0.0002	0	0.0003	<0.0002	40				<0.0002
	Perfluoroh	mg/kg	0.0002 (Primary): 0.005 (	<0.0002	<0.0002	0	<0.0002	<0.0002	0	<0.0002	<0.0002	0	<0.0002	<0.0002	0	<0.0002	<0.0002	0				<0.0002
	Perfluorod	mg/kg	0.0002 (Primary): 0.005 (	0.0003	0.0003	0	<0.0002	<0.0002	0	<0.0002	<0.0002	0	<0.0002	<0.0002	0	<0.0002	<0.0002	0				<0.0002
	Perfluoroh	mg/kg	0.0002 (Primary): 0.005 (	<0.0002	<0.0002	0	<0.0002	<0.0002	0	<0.0002	<0.0002	0	<0.0002	<0.0002	0	<0.0002	<0.0002	0				<0.0002
	Perfluoroh	mg/kg	0.0002 (Primary): 0.005 (	<0.0002	<0.0002	0	<0.0002	<0.0002	0	<0.0002	<0.0002	0	<0.0002	<0.0002	0	<0.0002	<0.0002	0				<0.0002
	Perfluoron	mg/kg	0.0002 (Primary): 0.005 (	<0.0002	<0.0002	0	<0.0002	<0.0002	0	<0.0002	<0.0002	0	<0.0002	<0.0002	0	<0.0002	<0.0002	0				<0.0002
	Perfluorod	mg/kg	0.0002 (Primary): 0.005 (	<0.0002	<0.0002	0	<0.0002	<0.0002	0	<0.0002	<0.0002	0	<0.0002	<0.0002	0	<0.0002	<0.0002	0				<0.0002
	Perfluorou	mg/kg	0.0002 (Primary): 0.005 (	0.0002	<0.0002	0	<0.0002	<0.0002	0	<0.0002	<0.0002	0	<0.0002	<0.0002	0	<0.0002	<0.0002	0				<0.0002
PFOA																						
SVOC	Hexachlord	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.5	0	<0.5
TRH - Sem	>C10 - C16	mg/kg	50	<50.0	<50.0	0	<50.0	<50.0	0	<50.0	<50.0	0	<50.0	<50.0	0	<50.0	<50.0	0	<50.0	<50.0	0	<50.0
	>C10 - C16	mg/kg	50	<50.0	<50.0	0	<50.0	<50.0	0	<50.0	<50.0	0	<50.0	<50.0	0	<50.0	<50.0	0	<50.0	<50.0	0	<50.0
	>C10 - C40	mg/kg	50 (Primary): 100 (Interlat	510.0	530.0	4	<50.0	<50.0	0	**360.0**	**150.0**	**82**	<50.0	<50.0	0	<50.0	<50.0	0	<50.0	<50.0	0	**<50.0**

Filter: Lab_Report_Number in('ES2201633','ES2146990','ES2146625','ES2146476')

Field Duplicates (SOIL) Filter: Lab_Report_Nu				**Lab Report Number**	ES2146476	ES2146476		ES2146625	ES2146625		ES2146625	ES2146625		ES2146625	ES2146625		ES2146990	ES2146990		ES2146990	ES2146990		ES2146990
				Field ID	BUR_BH103_0.1	D01_20211216	**RPD**	BUR_BH107_3.0	D03_20211217	**RPD**	BUR_BH108_0.2	D04_20211217	**RPD**	BUR_BH106_4.0	D02_20211217	**RPD**	BUR_BH111_0.5	D05_20211220	**RPD**	BUR_BH113_2.0	D06__2021220	**RPD**	BUR_BH117_0.2
				Sampled Date/Time	16/12/2021 15:00	16/12/2021 15:00		17/12/2021 15:00	17/12/2021 15:00		17/12/2021 15:00	17/12/2021 15:00		17/12/2021 15:00	17/12/2021 15:00		20/12/2021 15:00	20/12/2021 15:00		20/12/2021 15:00	20/12/2021 15:00		21/12/2021 15:00
	>C16 - C34	mg/kg	100		380.0	390.0	3	<100.0	<100.0	0	220.0	150.0	38	<100.0	<100.0	0	<100.0	<100.0	0	<100.0	<100.0	0	<100.0
	>C34 - C40	mg/kg	100		130.0	140.0	7	<100.0	<100.0	0	140.0	<100.0	33	<100.0	<100.0	0	<100.0	<100.0	0	<100.0	<100.0	0	<100.0
	C10 - C14	mg/kg	50 (Primary): 20 (Interlab)		<50.0	<50.0	0	<50.0	<50.0	0	<50.0	<50.0	0	<50.0	<50.0	0	<50.0	<50.0	0	<50.0	<50.0	0	<50.0
	C10 - C36	mg/kg	50		450.0	470.0	4	<50.0	<50.0	0	**270.0**	**<50.0**	**138**	<50.0	<50.0	0	<50.0	<50.0	0	<50.0	<50.0	0	<50.0
	C15 - C28	mg/kg	100 (Primary): 50 (Interlab		250.0	260.0	4	<100.0	<100.0	0	130.0	<100.0	26	<100.0	<100.0	0	<100.0	<100.0	0	<100.0	<100.0	0	<100.0
	C29 - C36	mg/kg	100 (Primary): 50 (Interlab		200.0	210.0	5	<100.0	<100.0	0	140.0	<100.0	33	<100.0	<100.0	0	<100.0	<100.0	0	<100.0	<100.0	0	<100.0
ivolatile Fraction																							
TRH Volati	Toluene	mg/kg	0.5 (Primary): 0.1 (Interlab)					<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0							
	Toluene	mg/kg	0.5 (Primary): 0.1 (Interlab		<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5
	Total Xylen	mg/kg	0.5 (Primary): 0.3 (Interlab		<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5
	Benzene	mg/kg	0.2 (Primary): 0.1 (Interlab)					<0.2	<0.2	0	<0.2	<0.2	0	<0.2	<0.2	0							
	Benzene	mg/kg	0.2 (Primary): 0.1 (Interlab		<0.2	<0.2	0	<0.2	<0.2	0	<0.2	<0.2	0	<0.2	<0.2	0	<0.2	<0.2	0	<0.2	<0.2	0	<0.2
	C6 - C10 F	mg/kg	10 (Primary): 20 (Interlab)		<10.0	<10.0	0	<10.0	<10.0	0	<10.0	<10.0	0	<10.0	<10.0	0	<10.0	<10.0	0	<10.0	<10.0	0	<10.0
	C6 - C10 F	mg/kg	10 (Primary): 20 (Interlab)		<10.0	<10.0	0	<10.0	<10.0	0	<10.0	<10.0	0	<10.0	<10.0	0	<10.0	<10.0	0	<10.0	<10.0	0	<10.0
	C6 - C9 Fra	mg/kg	10 (Primary): 20 (Interlab)		<10.0	<10.0	0	<10.0	<10.0	0	<10.0	<10.0	0	<10.0	<10.0	0	<10.0	<10.0	0	<10.0	<10.0	0	<10.0
	Ethylbenze	mg/kg	0.5 (Primary): 0.1 (Interlab)					<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0							
	Ethylbenze	mg/kg	0.5 (Primary): 0.1 (Interlab		<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5
	meta- & pa	mg/kg	0.5 (Primary): 0.2 (Interlab)					<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0							
	meta- & pa	mg/kg	0.5 (Primary): 0.2 (Interlab		<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5
	ortho-Xyler	mg/kg	0.5 (Primary): 0.1 (Interlab)					<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0							
	ortho-Xyler	mg/kg	0.5 (Primary): 0.1 (Interlab		<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5
	Sum of BT	mg/kg	0.2		<0.2	<0.2	0	<0.2	<0.2	0	<0.2	<0.2	0	<0.2	<0.2	0	<0.2	<0.2	0	<0.2	<0.2	0	<0.2
les/BTEX																							
VOC	1,2,4-trime	mg/kg	0.5		<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.5	0	<0.5
	1,3,5-trime	mg/kg	0.5		<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.5	0	<0.5
	2-chlorotol	mg/kg	0.5		<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.5	0	<0.5
	4-chlorotol	mg/kg	0.5		<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.5	0	<0.5
	Bromoben	mg/kg	0.5		<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.5	0	<0.5
	Isopropylb	mg/kg	0.5		<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.5	0	<0.5
	n-butylben	mg/kg	0.5		<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.5	0	<0.5
	n-propylbe	mg/kg	0.5		<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.5	0	<0.5
	p-isopropy	mg/kg	0.5		<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.5	0	<0.5
	sec-butylbe	mg/kg	0.5		<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.5	0	<0.5
	Styrene	mg/kg	0.5		<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.5	0	<0.5
	tert-butylbe	mg/kg	0.5		<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.5	0	<0.5
	1,1,1,2-tetr	mg/kg	0.5		<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.5	0	<0.5
	1,1,1-trichl	mg/kg	0.5		<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.5	0	<0.5
	1,1,2,2-tetr	mg/kg	0.5		<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.5	0	<0.5
	1,1,2-trichl	mg/kg	0.5		<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.5	0	<0.5
	1,1-dichlor	mg/kg	0.5		<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.5	0	<0.5
	1,1-dichlor	mg/kg	0.5		<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.5	0	<0.5
	1,1-dichlor	mg/kg	0.5		<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.5	0	<0.5
	1,2,3-trichl	mg/kg	0.5		<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.5	0	<0.5
	1,2-dibrom	mg/kg	0.5		<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.5	0	<0.5
	1,2-dibrom	mg/kg	0.5		<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.5	0	<0.5
	1,2-dichlor	mg/kg	0.5		<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.5	0	<0.5
	1,2-dichlor	mg/kg	0.5		<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.5	0	<0.5
	1,3-dichlor	mg/kg	0.5		<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.5	0	<0.5
	2,2-dichlor	mg/kg	0.5		<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.5	0	<0.5
	2-butanone	mg/kg	5 (Primary): 0.5 (Interlab)		<5.0	<5.0	0	<5.0	<5.0	0	<5.0	<5.0	0	<5.0	<5.0	0				<5.0	<5.0	0	<5.0
	2-hexanone	mg/kg	5		<5.0	<5.0	0	<5.0	<5.0	0	<5.0	<5.0	0	<5.0	<5.0	0				<5.0	<5.0	0	<5.0
	4-methyl-2-	mg/kg	5 (Primary): 0.5 (Interlab)		<5.0	<5.0	0	<5.0	<5.0	0	<5.0	<5.0	0	<5.0	<5.0	0				<5.0	<5.0	0	<5.0
	Bromodich	mg/kg	0.5		<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.5	0	<0.5
	Bromoform	mg/kg	0.5		<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.5	0	<0.5
	Bromomet	mg/kg	5 (Primary): 0.5 (Interlab)		<5.0	<5.0	0	<5.0	<5.0	0	<5.0	<5.0	0	<5.0	<5.0	0				<5.0	<5.0	0	<5.0
	Carbon dis	mg/kg	0.5		<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.5	0	<0.5
	Carbon tetr	mg/kg	0.5		<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.5	0	<0.5
	Chlorodibro	mg/kg	0.5		<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.5	0	<0.5
	Chloroetha	mg/kg	5 (Primary): 0.5 (Interlab)		<5.0	<5.0	0	<5.0	<5.0	0	<5.0	<5.0	0	<5.0	<5.0	0				<5.0	<5.0	0	<5.0
	Chloroform	mg/kg	0.5		<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.5	0	<0.5
	Chlorometl	mg/kg	5 (Primary): 0.5 (Interlab)		<5.0	<5.0	0	<5.0	<5.0	0	<5.0	<5.0	0	<5.0	<5.0	0				<5.0	<5.0	0	<5.0
	cis-1,2-dicl	mg/kg	0.5		<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.5	0	<0.5
	cis-1,3-dicl	mg/kg	0.5		<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.5	0	<0.5
	cis-1,4-Dic	mg/kg	0.5		<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.5	0	<0.5
	Dibromome	mg/kg	0.5		<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.5	0	<0.5
	Dichlorodif	mg/kg	5 (Primary): 0.5 (Interlab)		<5.0	<5.0	0	<5.0	<5.0	0	<5.0	<5.0	0	<5.0	<5.0	0				<5.0	<5.0	0	<5.0
	Iodometha	mg/kg	0.5		<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.5	0	<0.5
	Pentachlor	mg/kg	0.5		<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.5	0	<0.5
	TCE	mg/kg	0.5		<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.5	0	<0.5
	Tetrachlor	mg/kg	0.5		<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.5	0	<0.5
	trans-1,2-d	mg/kg	0.5		<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.5	0	<0.5
	trans-1,3-d	mg/kg	0.5		<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.5	0	<0.5
	trans-1,4-D	mg/kg	0.5		<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0				<0.5	<0.5	0	<0.5
	Trichloroflu	mg/kg	5 (Primary): 0.5 (Interlab)		<5.0	<5.0	0	<5.0	<5.0	0	<5.0	<5.0	0	<5.0	<5.0	0				<5.0	<5.0	0	<5.0

Field Duplicates (SOIL) Filter: Lab_Report_Nu				**Lab Report Number**	ES2146476	ES2146476		ES2146625	ES2146625		ES2146625	ES2146625		ES2146625	ES2146625		ES2146990	ES2146990		ES2146990	ES2146990		ES2146990
				Field ID	BUR_BH103_0.1	D01_20211216	**RPD**	BUR_BH107_3.0	D03_20211217	**RPD**	BUR_BH108_0.2	D04_20211217	**RPD**	BUR_BH106_4.0	D02_20211217	**RPD**	BUR_BH111_0.5	D05_20211220	**RPD**	BUR_BH113_2.0	D06__2021220	**RPD**	BUR_BH117_0.2
				Sampled Date/Time	16/12/2021 15:00	16/12/2021 15:00		17/12/2021 15:00	17/12/2021 15:00		17/12/2021 15:00	17/12/2021 15:00		17/12/2021 15:00	17/12/2021 15:00		20/12/2021 15:00	20/12/2021 15:00		20/12/2021 15:00	20/12/2021 15:00		21/12/2021 15:00
	Vinyl aceta	mg/kg	5	<5.0	<5.0	0	<5.0	<5.0	0	<5.0	<5.0	0	<5.0	<5.0	0				<5.0	<5.0	0	<5.0
	Vinyl chlori	mg/kg	5 (Primary): 0.5 (Interlab)	<5.0	<5.0	0	<5.0	<5.0	0	<5.0	<5.0	0	<5.0	<5.0	0				<5.0	<5.0	0	<5.0
Metals	Arsenic	mg/kg	5 (Primary): 2 (Interlab)	9.0	9.0	0	12.0	10.0	18	8.0	7.0	13	10.0	8.0	22	6.0	8.0	29	**11.0**	**<5.0**	**75**	**10.0**
	Cadmium	mg/kg	1 (Primary): 0.4 (Interlab)	<1.0	<1.0	0	<1.0	<1.0	0	<1.0	<1.0	0	<1.0	<1.0	0	<1.0	<1.0	0	<1.0	<1.0	0	5.0
	Chromium	mg/kg	2 (Primary): 5 (Interlab)	22.0	28.0	24	10.0	10.0	0	19.0	18.0	5	14.0	11.0	24	17.0	18.0	6	9.0	6.0	40	22.0
	Copper	mg/kg	5	127.0	97.0	27	20.0	24.0	18	53.0	54.0	2	52.0	45.0	14	**59.0**	**23.0**	**88**	35.0	22.0	46	**207.0**
	Lead	mg/kg	5	420.0	379.0	10	10.0	10.0	0	267.0	300.0	12	21.0	15.0	33	**118.0**	**54.0**	**74**	18.0	14.0	25	**724.0**
	Mercury	mg/kg	0.1	0.3	0.2	40	<0.1	<0.1	0	0.2	0.3	40	<0.1	<0.1	0	**0.3**	**<0.1**	**100**	<0.1	<0.1	0	0.2
	Nickel	mg/kg	2 (Primary): 5 (Interlab)	12.0	12.0	0	<2.0	3.0	40	9.0	9.0	0	9.0	7.0	25	7.0	5.0	33	**7.0**	**3.0**	**80**	**37.0**
	Zinc	mg/kg	5	373.0	302.0	21	8.0	13.0	48	192.0	181.0	6	46.0	34.0	30	**108.0**	**30.0**	**113**	**41.0**	**20.0**	**69**	**1180.0**
PCBs	PCBs (Sun	mg/kg	0.1	<0.1	<0.1	0	<0.1	<0.1	0	<0.1	<0.1	0	<0.1	<0.1	0	<0.1	<0.1	0	<0.1	<0.1	0	<0.1
Pesticides	4,4-DDE	mg/kg	0.05	0.1	0.1	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05
	a-BHC	mg/kg	0.05	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05
	Aldrin	mg/kg	0.05	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05
	Aldrin + Die	mg/kg	0.05	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05
	Azinophos	mg/kg	0.05 (Primary): 0.2 (Interla	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05
	b-BHC	mg/kg	0.05	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05
	Bromophos	mg/kg	0.05	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05
	Carbopher	mg/kg	0.05	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05
	Chlordane	mg/kg	0.05 (Primary): 0.1 (Interla	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	0.07
	Chlordane	mg/kg	0.05	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05
	Chlordane	mg/kg	0.05	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	0.07
	Chlorfenvir	mg/kg	0.05 (Primary): 0.2 (Interla	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05
	Chlorpyrifo	mg/kg	0.05 (Primary): 0.2 (Interla	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05
	Chlorpyrifo	mg/kg	0.05 (Primary): 0.2 (Interla	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05
	d-BHC	mg/kg	0.05	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05
	DDD	mg/kg	0.05	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05
	DDT	mg/kg	0.2 (Primary): 0.05 (Interla	<0.2	<0.2	0	<0.2	<0.2	0	<0.2	<0.2	0	<0.2	<0.2	0	<0.2	<0.2	0	<0.2	<0.2	0	<0.2
	DDT+DDE	mg/kg	0.05	0.1	0.1	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05
	Demeton-S	mg/kg	0.05	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05
	Diazinon	mg/kg	0.05 (Primary): 0.2 (Interla	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05
	Dichlorvos	mg/kg	0.05 (Primary): 0.2 (Interla	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05
	Dieldrin	mg/kg	0.05	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05
	Dimethoate	mg/kg	0.05 (Primary): 0.2 (Interla	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05
	Endosulfar	mg/kg	0.05	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05
	Endosulfar	mg/kg	0.05	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05
	Endosulfar	mg/kg	0.05	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05
	Endosulfar	mg/kg	0.05	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05
	Endrin	mg/kg	0.05	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05
	Endrin alde	mg/kg	0.05	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05
	Endrin keto	mg/kg	0.05	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05
	Ethion	mg/kg	0.05 (Primary): 0.2 (Interla	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05
	Fenamipho	mg/kg	0.05	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05
	Fenthion	mg/kg	0.05 (Primary): 0.2 (Interla	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05
	g-BHC (Lin	mg/kg	0.05	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05
	Heptachlor	mg/kg	0.05	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05
	Heptachlor	mg/kg	0.05	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05
	Hexachlord	mg/kg	0.05	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05
	Malathion	mg/kg	0.05 (Primary): 0.2 (Interla	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05
	Methoxychl	mg/kg	0.2 (Primary): 0.05 (Interla	<0.2	<0.2	0	<0.2	<0.2	0	<0.2	<0.2	0	<0.2	<0.2	0	<0.2	<0.2	0	<0.2	<0.2	0	<0.2
	Methyl para	mg/kg	0.2	<0.2	<0.2	0	<0.2	<0.2	0	<0.2	<0.2	0	<0.2	<0.2	0	<0.2	<0.2	0	<0.2	<0.2	0	<0.2
	Monocroto	mg/kg	0.2 (Primary): 2 (Interlab)	<0.2	<0.2	0	<0.2	<0.2	0	<0.2	<0.2	0	<0.2	<0.2	0	<0.2	<0.2	0	<0.2	<0.2	0	<0.2
	Parathion	mg/kg	0.2	<0.2	<0.2	0	<0.2	<0.2	0	<0.2	<0.2	0	<0.2	<0.2	0	<0.2	<0.2	0	<0.2	<0.2	0	<0.2
	Pirimphos-	mg/kg	0.05	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05
	Prothiofos	mg/kg	0.05	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05

*RPDs have only been considered where a concentration is greater than 1 times the EQL.
**High RPDs are in bold (Acceptable RPDs for each EQL multiplier range are: 50 (1-10 x EQL); 30 (10-30 x EQL); 30 (> 30 x EQL))
***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory

Filter: Lab_Report_Number in('ES2201633','ES2146990','ES2146625','ES2146476')

Field Duplicates (SOIL)
Filter: Lab_Report_Nu

			Lab Report Number	ES2146990		ES2146990	ES2146990		ES2146476	852763		ES2146625	853149		ES2146625	853149		ES2146625	853149		ES2146990	853323	
			Field ID	D08_20211221	**RPD**	BUR_BH116_0.2	D07_20211221	**RPD**	BUR_BH103_0.1	T01_20211216	**RPD**	BUR_BH107_3.0	TO3-20211217	**RPD**	BUR_BH108_0.2	TO4-20211217	**RPD**	BUR_BH106_4.0	TO2-20211217	**RPD**	BUR_BH111_0.5	T05-20211220	**RPD**
			Sampled Date/Time	21/12/2021 15:00		21/12/2021 15:00	21/12/2021 15:00		16/12/2021 15:00	16/12/2021 15:00		17/12/2021 15:00	17/12/2021 15:00		17/12/2021 15:00	17/12/2021 15:00		17/12/2021 15:00	17/12/2021 15:00		20/12/2021 15:00	20/12/2021 15:00	
Chem_Gr	**ChemNam**	**Units**	**EQL**																				
Chlorinated	1,2,3-trichl	mg/kg	0.5	<0.5	0				<0.5			<0.5			<0.5			<0.5					
	1,2,4-trichl	mg/kg	0.5	<0.5	0				<0.5			<0.5			<0.5			<0.5					
	1,2-dichlor	mg/kg	0.5	<0.5	0				<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0			
	1,3-dichlor	mg/kg	0.5	<0.5	0				<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0			
	1,4-dichlor	mg/kg	0.5	<0.5	0				<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0			
	Chloroben	mg/kg	0.5	<0.5	0				<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0			
l HCs																							
Moisture C	Moisture C	%	1	18.4	14				18.3												25.2		
	Moisture C	%	0.1			25.5	21.2	18				11.5			26.2			8.6					
ontent																							
Naphthalen	Naphthalen	mg/kg	1 (Primary): 0.5 (Interlab)	<1.0	0							<1.0	<0.5	0	<1.0	<0.5	0	<1.0	<0.5	0			
	Naphthalen	mg/kg	1 (Primary): 0.5 (Interlab)	<1.0	0	<1.0	<1.0	0	<1.0	<0.5 - 0.6	0	<1.0	<0.5	0	<1.0	<0.5	0	<1.0	<0.5	0	<1.0	<0.5	0
	Naphthalen	mg/kg	0.5	<0.5	0	1.1	0.7	44	<0.5	<0.5 - 0.6	18	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0
e																							
PAH/Phen	Acenaphth	mg/kg	0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0
	Acenaphth	mg/kg	0.5	<0.5	0	4.4	3.0	38	1.6	1.6	0	<0.5	<0.5	0	0.7	<0.5	33	<0.5	<0.5	0	<0.5	<0.5	0
	Anthracene	mg/kg	0.5	<0.5	0	**8.4**	**4.3**	**65**	2.2	2.5	13	<0.5	<0.5	0	**1.3**	**<0.5**	**89**	<0.5	<0.5	0	<0.5	<0.5	0
	Fluoranthe	mg/kg	0.5	2.1	10	**38.8**	**25.5**	**41**	13.6	16.0	16	<0.5	<0.5	0	**9.4**	**1.0**	**162**	<0.5	<0.5	0	**0.8**	**1.4**	**55**
	Fluorene	mg/kg	0.5	<0.5	0	**1.9**	**1.0**	**62**	0.6	0.7	15	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0
	Benz(a)ant	mg/kg	0.5	1.0	11	**16.1**	**11.1**	**37**	7.2	8.4	15	<0.5	<0.5	0	**4.4**	**0.5**	**159**	<0.5	<0.5	0	<0.5	0.8	46
	Benzo(a)py	mg/kg	0.5	1.1	0	14.5	11.1	27	6.5	8.2	23	<0.5	<0.5	0	**4.2**	**0.6**	**150**	<0.5	<0.5	0	**<0.5**	**0.9**	**57**
	Benzo(a)py	mg/kg	0.5	1.7	0	21.3	16.2	27	9.6	12.0	22	0.6	0.6	0	**6.2**	**1.0**	**144**	0.6	0.6	0	**0.6**	**1.4**	**80**
	Benzo(a)py	mg/kg	0.5	2.0	5	21.3	16.2	27	9.6	12.0	22	1.2	1.2	0	**6.2**	**1.3**	**131**	1.2	1.2	0	1.2	1.7	34
	Benzo(a)py	mg/kg	0.5	1.4	0	21.3	16.2	27	9.6	12.0	22	<0.5	<0.5	0	**6.2**	**0.7**	**159**	<0.5	<0.5	0	**<0.5**	**1.2**	**82**
	Benzo(b+j)	mg/kg	0.5	1.3	8	17.2	13.5	24	**8.2**	**5.3**	**43**	<0.5	<0.5	0	**4.7**	**<0.5**	**162**	<0.5	<0.5	0	<0.5	0.6	18
	Benzo(g.h.	mg/kg	0.5	0.8	13	8.0	6.5	21	4.0	3.5	13	<0.5	<0.5	0	**2.4**	**<0.5**	**131**	<0.5	<0.5	0	<0.5	0.5	0
	Benzo(k)flu	mg/kg	0.5	0.5	0	**6.8**	**4.8**	**34**	**3.2**	**8.7**	**92**	<0.5	<0.5	0	**1.9**	**0.7**	**92**	<0.5	<0.5	0	**<0.5**	**0.9**	**57**
	Chrysene	mg/kg	0.5	1.0	11	**14.4**	**10.2**	**34**	**6.3**	**9.6**	**42**	<0.5	<0.5	0	**3.9**	**0.6**	**147**	<0.5	<0.5	0	<0.5	0.7	33
	Dibenz(a.h	mg/kg	0.5	<0.5	0	1.8	1.4	25	0.8	0.9	12	<0.5	<0.5	0	0.6	<0.5	18	<0.5	<0.5	0	<0.5	<0.5	0
	Indeno(1.2	mg/kg	0.5	0.6	0	7.3	5.8	23	3.5	3.2	9	<0.5	<0.5	0	**2.2**	**<0.5**	**126**	<0.5	<0.5	0	<0.5	0.5	0
	Phenanthre	mg/kg	0.5	1.0	11	**32.6**	**17.0**	**63**	8.1	10.0	21	<0.5	<0.5	0	**5.8**	**0.6**	**163**	<0.5	<0.5	0	<0.5	0.7	33
	Pyrene	mg/kg	0.5	2.2	15	**34.8**	**23.6**	**38**	**12.9**	**18.0**	**33**	<0.5	<0.5	0	**8.8**	**1.1**	**156**	<0.5	<0.5	0	**0.8**	**1.5**	**61**
	Sum of pol	mg/kg	0.5	11.6	14	**208.0**	**140.0**	**39**	78.7	97.2	21	<0.5	<0.5	0	**50.3**	**5.1**	**163**	<0.5	<0.5	0	**1.6**	**8.5**	**137**
ls (SIM)																							
Per- and P	10:2 Fluor	µg/kg	0.5 (Primary): 5 (Interlab)	<0.5	0	<0.5	<0.5	0	<0.5	<5.0	0	<0.5	<5.0	0	<0.5	<5.0	0	<0.5	<5.0	0	<0.5	<5.0	0
	4:2 Fluorot	µg/kg	0.5 (Primary): 5 (Interlab)	<0.5	0	<0.5	<0.5	0	<0.5	<5.0	0	<0.5	<5.0	0	<0.5	<5.0	0	<0.5	<5.0	0	<0.5	<5.0	0
	6:2 Fluorot	µg/kg	0.5 (Primary): 10 (Interlab	<0.5	0	<0.5	<0.5	0	<0.5	<10.0	0	<0.5	<10.0	0	<0.5	<10.0	0	<0.5	<10.0	0	<0.5	<10.0	0
	8:2 Fluorot	µg/kg	0.5 (Primary): 5 (Interlab)	<0.5	0	<0.5	<0.5	0	<0.5	<5.0	0	<0.5	<5.0	0	<0.5	<5.0	0	<0.5	<5.0	0	<0.5	<5.0	0
	N-Ethyl per	µg/kg	0.5 (Primary): 5 (Interlab)	<0.5	0	<0.5	<0.5	0	<0.5	<5.0	0	<0.5	<5.0	0	<0.5	<5.0	0	<0.5	<5.0	0	<0.5	<5.0	0
	N-Ethyl per	µg/kg	0.2 (Primary): 10 (Interlab	<0.2	0	<0.2	<0.2	0	<0.2	<10.0	0	<0.2	<10.0	0	<0.2	<10.0	0	<0.2	<10.0	0	<0.2	<10.0	0
	N-Ethyl per	µg/kg	0.5 (Primary): 5 (Interlab)	<0.5	0	<0.5	<0.5	0	<0.5	<5.0	0	<0.5	<5.0	0	<0.5	<5.0	0	<0.5	<5.0	0	<0.5	<5.0	0
	N-Methyl p	µg/kg	0.5 (Primary): 5 (Interlab)	<0.5	0	<0.5	<0.5	0	<0.5	<5.0	0	<0.5	<5.0	0	<0.5	<5.0	0	<0.5	<5.0	0	<0.5	<5.0	0
	N-Methyl p	µg/kg	0.2 (Primary): 10 (Interlab	<0.2	0	<0.2	<0.2	0	<0.2	<10.0	0	<0.2	<10.0	0	<0.2	<10.0	0	<0.2	<10.0	0	<0.2	<10.0	0
	N-Methyl p	µg/kg	0.5 (Primary): 5 (Interlab)	<0.5	0	<0.5	<0.5	0	<0.5	<5.0	0	<0.5	<5.0	0	<0.5	<5.0	0	<0.5	<5.0	0	<0.5	<5.0	0
	Perfluorobu	µg/kg	1 (Primary): 5 (Interlab)	<1.0	0	<1.0	<1.0	0	<1.0	<5.0	0	<1.0	<5.0	0	<1.0	<5.0	0	<1.0	<5.0	0	<1.0	<5.0	0
	Perfluorohe	µg/kg	0.2 (Primary): 5 (Interlab)	<0.2	0	<0.2	<0.2	0	<0.2	<5.0	0	<0.2	<5.0	0	<0.2	<5.0	0	<0.2	<5.0	0	<0.2	<5.0	0
	Perfluorooc	µg/kg	0.2 (Primary): 5 (Interlab)	1.4	25	<0.2	<0.2	0	**4.0**	**8.2**	**69**	<0.2	<5.0	0	<0.2	<5.0	0	<0.2	<5.0	0	1.0	<5.0	0
	Perfluorope	µg/kg	0.2 (Primary): 5 (Interlab)	<0.2	0	<0.2	<0.2	0	<0.2	<5.0	0	<0.2	<5.0	0	<0.2	<5.0	0	<0.2	<5.0	0	<0.2	<5.0	0
	Perfluorope	µg/kg	0.2 (Primary): 5 (Interlab)	<0.2	0	<0.2	<0.2	0	<0.2	<5.0	0	<0.2	<5.0	0	<0.2	<5.0	0	<0.2	<5.0	0	<0.2	<5.0	0
	Perfluorooc	µg/kg	0.2 (Primary): 5 (Interlab)	0.2	0	<0.2	<0.2	0	0.3	<5.0	0	<0.2	<5.0	0	<0.2	<5.0	0	<0.2	<5.0	0	<0.2	<5.0	0
	Perfluorote	µg/kg	0.5 (Primary): 5 (Interlab)	<0.5	0	<0.5	<0.5	0	<0.5	<5.0	0	<0.5	<5.0	0	<0.5	<5.0	0	<0.5	<5.0	0	<0.5	<5.0	0
	Perfluorotri	µg/kg	0.2 (Primary): 5 (Interlab)	<0.2	0	<0.2	<0.2	0	<0.2	<5.0	0	<0.2	<5.0	0	<0.2	<5.0	0	<0.2	<5.0	0	<0.2	<5.0	0
	Sum of PF	µg/kg	0.2 (Primary): 50 (Interlab	1.6	22	<0.2	<0.2	0	5.5	<50.0	0	<0.2	<50.0	0	<0.2	<50.0	0	<0.2	<50.0	0	1.3	<50.0	0
	Sum of PF	µg/kg	0.2 (Primary): 10 (Interlab	1.6	22	<0.2	<0.2	0	4.3	<10.0	0	<0.2	<10.0	0	<0.2	<10.0	0	<0.2	<10.0	0	1.0	<10.0	0
	Sum of PF	µg/kg	0.2 (Primary): 5 (Interlab)	1.4	25	<0.2	<0.2	0	**4.0**	**8.2**	**69**	<0.2	<5.0	0	<0.2	<5.0	0	<0.2	<5.0	0	1.0	<5.0	0
olyfluoroalkyl Subst																							
PFOS and	Perfluorobu	mg/kg	0.0002 (Primary): 0.005 (	<0.0002	0	<0.0002	<0.0002	0	<0.0002	<0.005	0	<0.0002	<0.005	0	<0.0002	<0.005	0	<0.0002	<0.005	0	<0.0002	<0.005	0
	Perfluorod	mg/kg	0.0002 (Primary): 0.005 (	<0.0002	0	<0.0002	<0.0002	0	<0.0002	<0.005	0	<0.0002	<0.005	0	<0.0002	<0.005	0	<0.0002	<0.005	0	<0.0002	<0.005	0
	Perfluorod	mg/kg	0.0002 (Primary): 0.005 (	<0.0002	0	<0.0002	<0.0002	0	0.0007	<0.005	0	<0.0002	<0.005	0	<0.0002	<0.005	0	<0.0002	<0.005	0	0.0003	<0.005	0
	Perfluorohe	mg/kg	0.0002 (Primary): 0.005 (	<0.0002	0	<0.0002	<0.0002	0	<0.0002	<0.005	0	<0.0002	<0.005	0	<0.0002	<0.005	0	<0.0002	<0.005	0	<0.0002	<0.005	0
	Perfluorod	mg/kg	0.0002 (Primary): 0.005 (	<0.0002	0	<0.0002	<0.0002	0	0.0003	<0.005	0	<0.0002	<0.005	0	<0.0002	<0.005	0	<0.0002	<0.005	0	<0.0002	<0.005	0
	Perfluorohe	mg/kg	0.0002 (Primary): 0.005 (	<0.0002	0	<0.0002	<0.0002	0	<0.0002	<0.005	0	<0.0002	<0.005	0	<0.0002	<0.005	0	<0.0002	<0.005	0	<0.0002	<0.005	0
	Perfluorohe	mg/kg	0.0002 (Primary): 0.005 (	<0.0002	0	<0.0002	<0.0002	0	<0.0002	<0.005	0	<0.0002	<0.005	0	<0.0002	<0.005	0	<0.0002	<0.005	0	<0.0002	<0.005	0
	Perfluorono	mg/kg	0.0002 (Primary): 0.005 (	<0.0002	0	<0.0002	<0.0002	0	<0.0002	<0.005	0	<0.0002	<0.005	0	<0.0002	<0.005	0	<0.0002	<0.005	0	<0.0002	<0.005	0
	Perfluorooc	mg/kg	0.0002 (Primary): 0.005 (	<0.0002	0	<0.0002	<0.0002	0	<0.0002	<0.005	0	<0.0002	<0.005	0	<0.0002	<0.005	0	<0.0002	<0.005	0	<0.0002	<0.005	0
	Perfluorour	mg/kg	0.0002 (Primary): 0.005 (	<0.0002	0	<0.0002	<0.0002	0	0.0002	<0.005	0	<0.0002	<0.005	0	<0.0002	<0.005	0	<0.0002	<0.005	0	<0.0002	<0.005	0
PFOA																							
SVOC	Hexachlorc	mg/kg	0.5	<0.5	0				<0.5			<0.5			<0.5			<0.5					
TRH - Sem	>C10 - C1	mg/kg	50	<50.0	0	<50.0	<50.0	0	<50.0	<500.0	0	<50.0	<50.0	0	<50.0	<50.0	0	<50.0	<50.0	0	<50.0	<50.0	0
	>C10 - C1	mg/kg	50	<50.0	0	<50.0	<50.0	0	<50.0	<500.0	0	<50.0	<50.0	0	<50.0	<50.0	0	<50.0	<50.0	0	<50.0	<50.0	0
	>C10 - C4	mg/kg	50 (Primary): 100 (Interlal	**150.0**	**100**	830.0	660.0	23	**510.0**	**1200.0**	**81**	<50.0	<100.0	0	**360.0**	**<100.0**	**113**	<50.0	<100.0	0	**<50.0**	**260.0**	**135**

Filter: Lab_Report_Number in('ES2201633','ES2146990','ES2146625','ES2146476')

Field Duplicates (SOIL)
Filter: Lab_Report_Nu

			Lab Report Number	ES2146990		ES2146990	ES2146990		ES2146476	852763		ES2146625	853149		ES2146625	853149		ES2146625	853149		ES2146990	853323	
			Field ID	D08_20211221	**RPD**	BUR_BH116_0.2	D07_20211221	**RPD**	BUR_BH103_0.1	T01_20211216	**RPD**	BUR_BH107_3.0	TO3-20211217	**RPD**	BUR_BH108_0.2	TO4-20211217	**RPD**	BUR_BH106_4.0	TO2-20211217	**RPD**	BUR_BH111_0.5	T05-20211220	**RPD**
			Sampled Date/Time	21/12/2021 15:00		21/12/2021 15:00	21/12/2021 15:00		16/12/2021 15:00	16/12/2021 15:00		17/12/2021 15:00	17/12/2021 15:00		17/12/2021 15:00	17/12/2021 15:00		17/12/2021 15:00	17/12/2021 15:00		20/12/2021 15:00	20/12/2021 15:00	
	>C16 - C34	mg/kg	100	150.0	40	630.0	490.0	25	**380.0**	**1200.0**	**104**	<100.0	<100.0	0	**220.0**	**<100.0**	**75**	<100.0	<100.0	0	**<100.0**	**260.0**	**89**
	>C34 - C40	mg/kg	100	<100.0	0	200.0	170.0	16	130.0	<1000.0	0	<100.0	<100.0	0	140.0	<100.0	33	<100.0	<100.0	0	<100.0	<100.0	0
	C10 - C14	mg/kg	50 (Primary): 20 (Interlab)	<50.0	0	<50.0	<50.0	0	<50.0	<200.0	0	<50.0	<20.0	0	<50.0	<20.0	0	<50.0	<20.0	0	<50.0	<20.0	0
	C10 - C36	mg/kg	50	<50.0	0	730.0	560.0	26	**450.0**	**1410.0**	**103**	<50.0	<50.0	0	**270.0**	**<50.0**	**138**	<50.0	<50.0	0	**<50.0**	**120.0**	**82**
	C15 - C28	mg/kg	100 (Primary): 50 (Interlab	<100.0	0	440.0	330.0	29	**250.0**	**750.0**	**100**	<100.0	<50.0	0	**130.0**	**<50.0**	**89**	<100.0	<50.0	0	<100.0	120.0	18
	C29 - C36	mg/kg	100 (Primary): 50 (Interlab	<100.0	0	290.0	230.0	23	**200.0**	**660.0**	**107**	<100.0	<50.0	0	**140.0**	**<50.0**	**95**	<100.0	<50.0	0	<100.0	<50.0	0
ivolatile Fraction																								
TRH Volati	Toluene	mg/kg	0.5 (Primary): 0.1 (Interlab									<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0			
	Toluene	mg/kg	0.5 (Primary): 0.1 (Interlab	<0.5	0	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0
	Total Xylen	mg/kg	0.5 (Primary): 0.3 (Interlab	<0.5	0	<0.5	<0.5	0	<0.5	<0.3	0	<0.5	<0.3	0	<0.5	<0.3	0	<0.5	<0.3	0	<0.5	<0.3	0
	Benzene	mg/kg	0.2 (Primary): 0.1 (Interlab									<0.2	<0.1	0	<0.2	<0.1	0	<0.2	<0.1	0			
	Benzene	mg/kg	0.2 (Primary): 0.1 (Interlab	<0.2	0	<0.2	<0.2	0	<0.2	<0.1	0	<0.2	<0.1	0	<0.2	<0.1	0	<0.2	<0.1	0	<0.2	<0.1	0
	C6 - C10 F	mg/kg	10 (Primary): 20 (Interlab)	<10.0	0	<10.0	<10.0	0	<10.0	<20.0	0	<10.0	<20.0	0	<10.0	<20.0	0	<10.0	<20.0	0	<10.0	<20.0	0
	C6 - C10 F	mg/kg	10 (Primary): 20 (Interlab)	<10.0	0	<10.0	<10.0	0	<10.0	<20.0	0	<10.0	<20.0	0	<10.0	<20.0	0	<10.0	<20.0	0	<10.0	<20.0	0
	C6 - C9 Fra	mg/kg	10 (Primary): 20 (Interlab)	<10.0	0	<10.0	<10.0	0	<10.0	<20.0	0	<10.0	<20.0	0	<10.0	<20.0	0	<10.0	<20.0	0	<10.0	<20.0	0
	Ethylbenze	mg/kg	0.5 (Primary): 0.1 (Interlab									<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0			
	Ethylbenze	mg/kg	0.5 (Primary): 0.1 (Interlab	<0.5	0	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0
	meta- & pa	mg/kg	0.5 (Primary): 0.2 (Interlab									<0.5	<0.2	0	<0.5	<0.2	0	<0.5	<0.2	0			
	meta- & pa	mg/kg	0.5 (Primary): 0.2 (Interlab	<0.5	0	<0.5	<0.5	0	<0.5	<0.2	0	<0.5	<0.2	0	<0.5	<0.2	0	<0.5	<0.2	0	<0.5	<0.2	0
	ortho-Xyler	mg/kg	0.5 (Primary): 0.1 (Interlab									<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0			
	ortho-Xyler	mg/kg	0.5 (Primary): 0.1 (Interlab	<0.5	0	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0
	Sum of BT	mg/kg	0.2	<0.2	0	<0.2	<0.2	0	<0.2			<0.2			<0.2			<0.2			<0.2		
les/BTEX																								
VOC	1,2,4-trime	mg/kg	0.5	<0.5	0				<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0			
	1,3,5-trime	mg/kg	0.5	<0.5	0				<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0			
	2-chlorotol	mg/kg	0.5	<0.5	0				<0.5			<0.5			<0.5			<0.5					
	4-chlorotol	mg/kg	0.5	<0.5	0				<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0			
	Bromobenz	mg/kg	0.5	<0.5	0				<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0			
	Isopropylbe	mg/kg	0.5	<0.5	0				<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0			
	n-butylbenz	mg/kg	0.5	<0.5	0				<0.5			<0.5			<0.5			<0.5					
	n-propylbe	mg/kg	0.5	<0.5	0				<0.5			<0.5			<0.5			<0.5					
	p-isopropyl	mg/kg	0.5	<0.5	0				<0.5			<0.5			<0.5			<0.5					
	sec-butylbe	mg/kg	0.5	<0.5	0				<0.5			<0.5			<0.5			<0.5					
	Styrene	mg/kg	0.5	<0.5	0				<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0			
	tert-butylbe	mg/kg	0.5	<0.5	0				<0.5			<0.5			<0.5			<0.5					
	1,1,1,2-tetr	mg/kg	0.5	<0.5	0				<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0			
	1,1,1-trichl	mg/kg	0.5	<0.5	0				<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0			
	1,1,2,2-tetr	mg/kg	0.5	<0.5	0				<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0			
	1,1,2-trichl	mg/kg	0.5	<0.5	0				<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0			
	1,1-dichlor	mg/kg	0.5	<0.5	0				<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0			
	1,1-dichlor	mg/kg	0.5	<0.5	0				<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0			
	1,1-dichlor	mg/kg	0.5	<0.5	0				<0.5			<0.5			<0.5			<0.5					
	1,2,3-trichl	mg/kg	0.5	<0.5	0				<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0			
	1,2-dibrom	mg/kg	0.5	<0.5	0				<0.5			<0.5			<0.5			<0.5					
	1,2-dibrom	mg/kg	0.5	<0.5	0				<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0			
	1,2-dichlor	mg/kg	0.5	<0.5	0				<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0			
	1,2-dichlor	mg/kg	0.5	<0.5	0				<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0			
	1,3-dichlor	mg/kg	0.5	<0.5	0				<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0			
	2,2-dichlor	mg/kg	0.5	<0.5	0				<0.5			<0.5			<0.5			<0.5					
	2-butanone	mg/kg	5 (Primary): 0.5 (Interlab)	<5.0	0				<5.0	<0.5	0	<5.0	<0.5	0	<5.0	<0.5	0	<5.0	<0.5	0			
	2-hexanone	mg/kg	5	<5.0	0				<5.0			<5.0			<5.0			<5.0					
	4-methyl-2	mg/kg	5 (Primary): 0.5 (Interlab)	<5.0	0				<5.0	<0.5	0	<5.0	<0.5	0	<5.0	<0.5	0	<5.0	<0.5	0			
	Bromodich	mg/kg	0.5	<0.5	0				<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0			
	Bromoform	mg/kg	0.5	<0.5	0				<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0			
	Bromometh	mg/kg	5 (Primary): 0.5 (Interlab)	<5.0	0				<5.0	<0.5	0	<5.0	<0.5	0	<5.0	<0.5	0	<5.0	<0.5	0			
	Carbon dis	mg/kg	0.5	<0.5	0				<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0			
	Carbon tetr	mg/kg	0.5	<0.5	0				<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0			
	Chlorodibro	mg/kg	0.5	<0.5	0				<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0			
	Chloroetha	mg/kg	5 (Primary): 0.5 (Interlab)	<5.0	0				<5.0	<0.5	0	<5.0	<0.5	0	<5.0	<0.5	0	<5.0	<0.5	0			
	Chloroform	mg/kg	0.5	<0.5	0				<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0			
	Chlorometh	mg/kg	5 (Primary): 0.5 (Interlab)	<5.0	0				<5.0	<0.5	0	<5.0	<0.5	0	<5.0	<0.5	0	<5.0	<0.5	0			
	cis-1,2-dich	mg/kg	0.5	<0.5	0				<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0			
	cis-1,3-dich	mg/kg	0.5	<0.5	0				<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0			
	cis-1,4-Dic	mg/kg	0.5	<0.5	0				<0.5			<0.5			<0.5			<0.5					
	Dibromome	mg/kg	0.5	<0.5	0				<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0			
	Dichlorodif	mg/kg	5 (Primary): 0.5 (Interlab)	<5.0	0				<5.0	<0.5	0	<5.0	<0.5	0	<5.0	<0.5	0	<5.0	<0.5	0			
	Iodometha	mg/kg	0.5	<0.5	0				<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0			
	Pentachlor	mg/kg	0.5	<0.5	0				<0.5			<0.5			<0.5			<0.5					
	TCE	mg/kg	0.5	<0.5	0				<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0			
	Tetrachlord	mg/kg	0.5	<0.5	0				<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0			
	trans-1,2-d	mg/kg	0.5	<0.5	0				<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0			
	trans-1,3-d	mg/kg	0.5	<0.5	0				<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0			
	trans-1,4-D	mg/kg	0.5	<0.5	0				<0.5			<0.5			<0.5			<0.5					
	Trichlorofl	mg/kg	5 (Primary): 0.5 (Interlab)	<5.0	0				<5.0	<0.5	0	<5.0	<0.5	0	<5.0	<0.5	0	<5.0	<0.5	0			

Filter: Lab_Report_Number in('ES2201633','ES2146990','ES2146625','ES2146476')

Field Duplicates (SOIL)
Filter: Lab_Report_Nu

			Lab Report Number	ES2146990		ES2146990	ES2146990		ES2146476	852763		ES2146625	853149		ES2146625	853149		ES2146625	853149		ES2146990	853323	
			Field ID	D08_20211221	**RPD**	BUR_BH116_0.2	D07_20211221	**RPD**	BUR_BH103_0.1	T01_20211216	**RPD**	BUR_BH107_3.0	TO3-20211217	**RPD**	BUR_BH108_0.2	TO4-20211217	**RPD**	BUR_BH106_4.0	TO2-20211217	**RPD**	BUR_BH111_0.5	T05-20211220	**RPD**
			Sampled Date/Time	21/12/2021 15:00		21/12/2021 15:00	21/12/2021 15:00		16/12/2021 15:00	16/12/2021 15:00		17/12/2021 15:00	17/12/2021 15:00		17/12/2021 15:00	17/12/2021 15:00		17/12/2021 15:00	17/12/2021 15:00		20/12/2021 15:00	20/12/2021 15:00	
	Vinyl aceta	mg/kg	5	<5.0	0				<5.0			<5.0			<5.0			<5.0					
	Vinyl chlori	mg/kg	5 (Primary): 0.5 (Interlab)	<5.0	0				<5.0	<0.5	0	<5.0	<0.5	0	<5.0	<0.5	0	<5.0	<0.5	0			
Metals	Arsenic	mg/kg	5 (Primary): 2 (Interlab)	**19.0**	**62**	**8.0**	**16.0**	**67**	9.0	9.8	9	12.0	8.5	34	**8.0**	**3.8**	**71**	**10.0**	**5.6**	**56**	6.0	8.8	38
	Cadmium	mg/kg	1 (Primary): 0.4 (Interlab)	8.0	46	<1.0	<1.0	0	<1.0	0.6	0	<1.0	<0.4	0	<1.0	<0.4	0	<1.0	<0.4	0	<1.0	<0.4	0
	Chromium	mg/kg	2 (Primary): 5 (Interlab)	28.0	24	21.0	21.0	0	22.0	22.0	0	10.0	11.0	10	19.0	14.0	30	14.0	9.3	40	17.0	25.0	38
	Copper	mg/kg	5	**308.0**	**39**	**132.0**	**215.0**	**48**	127.0	96.0	28	20.0	22.0	10	**53.0**	**32.0**	**49**	**52.0**	**28.0**	**60**	**59.0**	**220.0**	**115**
	Lead	mg/kg	5	**1030.0**	**35**	746.0	890.0	18	420.0	350.0	18	10.0	11.0	10	**267.0**	**150.0**	**56**	21.0	14.0	40	**118.0**	**290.0**	**84**
	Mercury	mg/kg	0.1	0.2	0	0.4	0.4	0	0.3	0.3	0	<0.1	<0.1	0	0.2	0.2	0	<0.1	<0.1	0	**0.3**	**0.1**	**100**
	Nickel	mg/kg	2 (Primary): 5 (Interlab)	**62.0**	**51**	13.0	16.0	21	12.0	12.0	0	<2.0	<5.0	0	9.0	8.7	3	**9.0**	**5.3**	**52**	**7.0**	**16.0**	**78**
	Zinc	mg/kg	5	**2170.0**	**59**	**633.0**	**874.0**	**32**	373.0	280.0	28	**8.0**	**15.0**	**61**	192.0	200.0	4	**46.0**	**27.0**	**52**	**108.0**	**170.0**	**45**
PCBs	PCBs (Sun	mg/kg	0.1	<0.1	0	<0.1	<0.1	0	<0.1	<1.0	0	<0.1	<0.1	0	<0.1	<0.1	0	<0.1	<0.1	0	<0.1	<0.1	0
Pesticides	4,4-DDE	mg/kg	0.05	<0.05	0	<0.05	<0.05	0	0.1	<0.5	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0
	a-BHC	mg/kg	0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.5	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0
	Aldrin	mg/kg	0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.5	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0
	Aldrin + Die	mg/kg	0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.5	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0
	Azinophos	mg/kg	0.05 (Primary): 0.2 (Interla	<0.05	0	<0.05	<0.05	0	<0.05	<0.5	0	<0.05	<0.2	0	<0.05	<0.2	0	<0.05	<0.2	0	<0.05	<0.2	0
	b-BHC	mg/kg	0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.5	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0
	Bromophos	mg/kg	0.05	<0.05	0	<0.05	<0.05	0	<0.05			<0.05			<0.05			<0.05			<0.05		
	Carbopher	mg/kg	0.05	<0.05	0	<0.05	<0.05	0	<0.05			<0.05			<0.05			<0.05			<0.05		
	Chlordane	mg/kg	0.05 (Primary): 0.1 (Interla	<0.05	33	<0.05	<0.05	0	<0.05	<1.0	0	<0.05	<0.1	0	<0.05	<0.1	0	<0.05	<0.1	0	<0.05	<0.1	0
	Chlordane	mg/kg	0.05	<0.05	0	<0.05	<0.05	0	<0.05			<0.05			<0.05			<0.05			<0.05		
	Chlordane	mg/kg	0.05	<0.05	33	<0.05	<0.05	0	<0.05			<0.05			<0.05			<0.05			<0.05		
	Chlorfenvir	mg/kg	0.05 (Primary): 0.2 (Interla	<0.05	0	<0.05	<0.05	0	<0.05	<0.5	0	<0.05	<0.2	0	<0.05	<0.2	0	<0.05	<0.2	0	<0.05	<0.2	0
	Chlorpyrifo	mg/kg	0.05 (Primary): 0.2 (Interla	<0.05	0	<0.05	<0.05	0	<0.05	<0.5	0	<0.05	<0.2	0	<0.05	<0.2	0	<0.05	<0.2	0	<0.05	<0.2	0
	Chlorpyrifo	mg/kg	0.05 (Primary): 0.2 (Interla	<0.05	0	<0.05	<0.05	0	<0.05	<0.5	0	<0.05	<0.2	0	<0.05	<0.2	0	<0.05	<0.2	0	<0.05	<0.2	0
	d-BHC	mg/kg	0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.5	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0
	DDD	mg/kg	0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.5	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0
	DDT	mg/kg	0.2 (Primary): 0.05 (Interla	<0.2	0	<0.2	<0.2	0	<0.2	<0.5	0	<0.2	<0.05	0	<0.2	<0.05	0	<0.2	<0.05	0	<0.2	<0.05	0
	DDT+DDE	mg/kg	0.05	<0.05	0	<0.05	<0.05	0	0.1	<0.5	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0
	Demeton-S	mg/kg	0.05	<0.05	0	<0.05	<0.05	0	<0.05			<0.05			<0.05			<0.05			<0.05		
	Diazinon	mg/kg	0.05 (Primary): 0.2 (Interla	<0.05	0	<0.05	<0.05	0	<0.05	<0.5	0	<0.05	<0.2	0	<0.05	<0.2	0	<0.05	<0.2	0	<0.05	<0.2	0
	Dichlorvos	mg/kg	0.05 (Primary): 0.2 (Interla	<0.05	0	<0.05	<0.05	0	<0.05	<0.5	0	<0.05	<0.2	0	<0.05	<0.2	0	<0.05	<0.2	0	<0.05	<0.2	0
	Dieldrin	mg/kg	0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.5	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0
	Dimethoate	mg/kg	0.05 (Primary): 0.2 (Interla	<0.05	0	<0.05	<0.05	0	<0.05	<0.5	0	<0.05	<0.2	0	<0.05	<0.2	0	<0.05	<0.2	0	<0.05	<0.2	0
	Endosulfar	mg/kg	0.05	<0.05	0	<0.05	<0.05	0	<0.05			<0.05			<0.05			<0.05			<0.05		
	Endosulfar	mg/kg	0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.5	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0
	Endosulfar	mg/kg	0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.5	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0
	Endosulfar	mg/kg	0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.5	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0
	Endrin	mg/kg	0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.5	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0
	Endrin alde	mg/kg	0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.5	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0
	Endrin keto	mg/kg	0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.5	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0
	Ethion	mg/kg	0.05 (Primary): 0.2 (Interla	<0.05	0	<0.05	<0.05	0	<0.05	<0.5	0	<0.05	<0.2	0	<0.05	<0.2	0	<0.05	<0.2	0	<0.05	<0.2	0
	Fenamipho	mg/kg	0.05	<0.05	0	<0.05	<0.05	0	<0.05			<0.05			<0.05			<0.05			<0.05		
	Fenthion	mg/kg	0.05 (Primary): 0.2 (Interla	<0.05	0	<0.05	<0.05	0	<0.05	<0.5	0	<0.05	<0.2	0	<0.05	<0.2	0	<0.05	<0.2	0	<0.05	<0.2	0
	g-BHC (Lin	mg/kg	0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.5	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0
	Heptachlor	mg/kg	0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.5	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0
	Heptachlor	mg/kg	0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.5	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0
	Hexachlorc	mg/kg	0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.5	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0
	Malathion	mg/kg	0.05 (Primary): 0.2 (Interla	<0.05	0	<0.05	<0.05	0	<0.05	<0.5	0	<0.05	<0.2	0	<0.05	<0.2	0	<0.05	<0.2	0	<0.05	<0.2	0
	Methoxych	mg/kg	0.2 (Primary): 0.05 (Interla	<0.2	0	<0.2	<0.2	0	<0.2	<0.5	0	<0.2	<0.05	0	<0.2	<0.05	0	<0.2	<0.05	0	<0.2	<0.05	0
	Methyl para	mg/kg	0.2	<0.2	0	<0.2	<0.2	0	<0.2	<0.5	0	<0.2	<0.2	0	<0.2	<0.2	0	<0.2	<0.2	0	<0.2	<0.2	0
	Monocroto	mg/kg	0.2 (Primary): 2 (Interlab)	<0.2	0	<0.2	<0.2	0	<0.2	<5.0	0	<0.2	<2.0	0	<0.2	<2.0	0	<0.2	<2.0	0	<0.2	<2.0	0
	Parathion	mg/kg	0.2	<0.2	0	<0.2	<0.2	0	<0.2	<0.5	0	<0.2	<0.2	0	<0.2	<0.2	0	<0.2	<0.2	0	<0.2	<0.2	0
	Pirimphos-	mg/kg	0.05	<0.05	0	<0.05	<0.05	0	<0.05			<0.05			<0.05			<0.05			<0.05		
	Prothiofos	mg/kg	0.05	<0.05	0	<0.05	<0.05	0	<0.05			<0.05			<0.05			<0.05			<0.05		

*RPDs have only been considered where a concentration
**High RPDs are in bold (Acceptable RPDs for each EQL
***Interlab Duplicates are matched on a per compound ba

Filter: Lab_Report_Number in('ES2201633','ES2146990','ES2146625','ES2146476')

Field Duplicates (SOIL)
Filter: Lab_Report_Nu

Lab Report Number	ES2146990	853323		ES2146990	853323		ES2146990	853323	
Field ID	BUR_BH113_2.0	T06-20211220	**RPD**	BUR_BH117_0.2	T08-20211221	**RPD**	BUR_BH116_0.2	T07-20211221	**RPD**
Sampled Date/Time	20/12/2021 15:00	20/12/2021 15:00		21/12/2021 15:00	21/12/2021 15:00		21/12/2021 15:00	21/12/2021 15:00	

Chem_Gr	**ChemNam**	**Units**	**EQL**									
Chlorinated	1,2,3-trichl	mg/kg	0.5	<0.5			<0.5					
	1,2,4-trichl	mg/kg	0.5	<0.5			<0.5					
	1,2-dichlor	mg/kg	0.5	<0.5	<0.5	0	<0.5					
	1,3-dichlor	mg/kg	0.5	<0.5	<0.5	0	<0.5					
	1,4-dichlor	mg/kg	0.5	<0.5	<0.5	0	<0.5					
	Chloroben	mg/kg	0.5	<0.5	<0.5	0	<0.5					
l HCs												
Moisture C	Moisture C	%	1	7.0			21.2					
	Moisture C	%	0.1							25.5		
ontent												
Naphthalen	Naphthalen	mg/kg	1 (Primary): 0.5 (Interlab)	<1.0	<0.5	0	<1.0					
	Naphthalen	mg/kg	1 (Primary): 0.5 (Interlab)	<1.0	<0.5	0	<1.0			<1.0	<0.5	0
	Naphthalen	mg/kg	0.5	<0.5	<0.5	0	<0.5			**1.1**	**<0.5**	**75**
e												
PAH/Phen	Acenaphth	mg/kg	0.5	<0.5	<0.5	0	<0.5			<0.5	<0.5	0
	Acenaphth	mg/kg	0.5	<0.5	<0.5	0	<0.5			**4.4**	**<0.5**	**159**
	Anthracene	mg/kg	0.5	<0.5	<0.5	0	<0.5			**8.4**	**<0.5**	**178**
	Fluoranthe	mg/kg	0.5	<0.5	<0.5	0	1.9			**38.8**	**0.7**	**193**
	Fluorene	mg/kg	0.5	<0.5	<0.5	0	<0.5			**1.9**	**<0.5**	**117**
	Benz(a)ant	mg/kg	0.5	<0.5	<0.5	0	0.9			**16.1**	**<0.5**	**188**
	Benzo(a)py	mg/kg	0.5	<0.5	<0.5	0	1.1			**14.5**	**0.7**	**182**
	Benzo(a)py	mg/kg	0.5	0.6	0.6	0	1.7			**21.3**	**1.1**	**180**
	Benzo(a)py	mg/kg	0.5	1.2	1.2	0	1.9			**21.3**	**1.4**	**175**
	Benzo(a)py	mg/kg	0.5	<0.5	<0.5	0	1.4			**21.3**	**0.8**	**186**
	Benzo(b+j)	mg/kg	0.5	<0.5	<0.5	0	1.2			**17.2**	**0.6**	**187**
	Benzo(g.h.	mg/kg	0.5	<0.5	<0.5	0	0.7			**8.0**	**<0.5**	**176**
	Benzo(k)flu	mg/kg	0.5	<0.5	<0.5	0	<0.5			**6.8**	**0.6**	**168**
	Chrysene	mg/kg	0.5	<0.5	<0.5	0	0.9			**14.4**	**0.7**	**181**
	Dibenz(a.h	mg/kg	0.5	<0.5	<0.5	0	<0.5			**1.8**	**<0.5**	**113**
	Indeno(1.2	mg/kg	0.5	<0.5	<0.5	0	0.6			**7.3**	**<0.5**	**174**
	Phenanthre	mg/kg	0.5	<0.5	<0.5	0	0.9			**32.6**	**<0.5**	**194**
	Pyrene	mg/kg	0.5	<0.5	<0.5	0	1.9			**34.8**	**0.8**	**191**
	Sum of pol	mg/kg	0.5	<0.5	<0.5	0	10.1			**208.0**	**4.1**	**192**
ols (SIM)												
Per- and P	10:2 Fluor	µg/kg	0.5 (Primary): 5 (Interlab)				<0.5	<5.0	0	<0.5	<5.0	0
	4:2 Fluorot	µg/kg	0.5 (Primary): 5 (Interlab)				<0.5	<5.0	0	<0.5	<5.0	0
	6:2 Fluorot	µg/kg	0.5 (Primary): 10 (Interlab				<0.5	<10.0	0	<0.5	<10.0	0
	8:2 Fluorot	µg/kg	0.5 (Primary): 5 (Interlab)				<0.5	<5.0	0	<0.5	<5.0	0
	N-Ethyl per	µg/kg	0.5 (Primary): 5 (Interlab)				<0.5	<5.0	0	<0.5	<5.0	0
	N-Ethyl per	µg/kg	0.2 (Primary): 10 (Interlab				<0.2	<10.0	0	<0.2	<10.0	0
	N-Ethyl per	µg/kg	0.5 (Primary): 5 (Interlab)				<0.5	<5.0	0	<0.5	<5.0	0
	N-Methyl pe	µg/kg	0.5 (Primary): 5 (Interlab)				<0.5	<5.0	0	<0.5	<5.0	0
	N-Methyl pe	µg/kg	0.2 (Primary): 10 (Interlab				<0.2	<10.0	0	<0.2	<10.0	0
	N-Methyl pe	µg/kg	0.5 (Primary): 5 (Interlab)				<0.5	<5.0	0	<0.5	<5.0	0
	Perfluorobu	µg/kg	1 (Primary): 5 (Interlab)				<1.0	<5.0	0	<1.0	<5.0	0
	Perfluorohe	µg/kg	0.2 (Primary): 5 (Interlab)				<0.2	<5.0	0	<0.2	<5.0	0
	Perfluorooc	µg/kg	0.2 (Primary): 5 (Interlab)				1.8	<5.0	0	<0.2	<5.0	0
	Perfluorope	µg/kg	0.2 (Primary): 5 (Interlab)				<0.2	<5.0	0	<0.2	<5.0	0
	Perfluorope	µg/kg	0.2 (Primary): 5 (Interlab)				<0.2	<5.0	0	<0.2	<5.0	0
	Perfluorooc	µg/kg	0.2 (Primary): 5 (Interlab)				0.2	<5.0	0	<0.2	<5.0	0
	Perfluorote	µg/kg	0.5 (Primary): 5 (Interlab)				<0.5	<5.0	0	<0.5	<5.0	0
	Perfluorotri	µg/kg	0.2 (Primary): 5 (Interlab)				<0.2	<5.0	0	<0.2	<5.0	0
	Sum of PF	µg/kg	0.2 (Primary): 50 (Interlab				2.0	<50.0	0	<0.2	<50.0	0
	Sum of PF	µg/kg	0.2 (Primary): 10 (Interlab				2.0	<10.0	0	<0.2	<10.0	0
	Sum of PF	µg/kg	0.2 (Primary): 5 (Interlab)				1.8	<5.0	0	<0.2	<5.0	0
olyfluoroalkyl Subst												
PFOS and	Perfluorobu	mg/kg	0.0002 (Primary): 0.005 (				<0.0002	<0.005	0	<0.0002	<0.005	0
	Perfluorode	mg/kg	0.0002 (Primary): 0.005 (				<0.0002	<0.005	0	<0.0002	<0.005	0
	Perfluorode	mg/kg	0.0002 (Primary): 0.005 (				<0.0002	<0.005	0	<0.0002	<0.005	0
	Perfluorohe	mg/kg	0.0002 (Primary): 0.005 (				<0.0002	<0.005	0	<0.0002	<0.005	0
	Perfluorode	mg/kg	0.0002 (Primary): 0.005 (				<0.0002	<0.005	0	<0.0002	<0.005	0
	Perfluorohe	mg/kg	0.0002 (Primary): 0.005 (				<0.0002	<0.005	0	<0.0002	<0.005	0
	Perfluorohe	mg/kg	0.0002 (Primary): 0.005 (				<0.0002	<0.005	0	<0.0002	<0.005	0
	Perfluorone	mg/kg	0.0002 (Primary): 0.005 (				<0.0002	<0.005	0	<0.0002	<0.005	0
	Perfluorooc	mg/kg	0.0002 (Primary): 0.005 (				<0.0002	<0.005	0	<0.0002	<0.005	0
	Perfluorour	mg/kg	0.0002 (Primary): 0.005 (				<0.0002	<0.005	0	<0.0002	<0.005	0
PFOA												
SVOC	Hexachlorc	mg/kg	0.5	<0.5			<0.5					
TRH - Sem	>C10 - C1	mg/kg	50	<50.0	<50.0	0	<50.0			<50.0	<50.0	0
	>C10 - C1	mg/kg	50	<50.0	<50.0	0	<50.0			<50.0	<50.0	0
	>C10 - C4	mg/kg	50 (Primary): 100 (Interlal	<50.0	<100.0	0	<50.0			**830.0**	**410.0**	**68**

Filter: Lab_Report_Number in('ES2201633','ES2146990','ES2146625','ES2146476')

Field Duplicates (SOIL)
Filter: Lab_Report_Nu

			Lab Report Number	ES2146990	853323		ES2146990	853323		ES2146990	853323	
			Field ID	BUR_BH113_2.0	T06-20211220	**RPD**	BUR_BH117_0.2	T08-20211221	**RPD**	BUR_BH116_0.2	T07-20211221	**RPD**
			Sampled Date/Time	20/12/2021 15:00	20/12/2021 15:00		21/12/2021 15:00	21/12/2021 15:00		21/12/2021 15:00	21/12/2021 15:00	
	>C16 - C34	mg/kg	100	<100.0	<100.0	0	<100.0			630.0	410.0	42
	>C34 - C40	mg/kg	100	<100.0	<100.0	0	<100.0			**200.0**	**<100.0**	**67**
	C10 - C14	mg/kg	50 (Primary): 20 (Interlab)	<50.0	<20.0	0	<50.0			<50.0	<20.0	0
	C10 - C36	mg/kg	50	<50.0	<50.0	0	<50.0			**730.0**	**242.0**	**100**
	C15 - C28	mg/kg	100 (Primary): 50 (Interlat	<100.0	<50.0	0	<100.0			**440.0**	**160.0**	**93**
	C29 - C36	mg/kg	100 (Primary): 50 (Interlat	<100.0	<50.0	0	<100.0			**290.0**	**82.0**	**112**
ivolatile Fraction												
TRH Volati	Toluene	mg/kg	0.5 (Primary): 0.1 (Interlat									
	Toluene	mg/kg	0.5 (Primary): 0.1 (Interlat	<0.5	<0.1	0	<0.5			<0.5	<0.1	0
	Total Xyler	mg/kg	0.5 (Primary): 0.3 (Interlat	<0.5	<0.3	0	<0.5			<0.5	<0.3	0
	Benzene	mg/kg	0.2 (Primary): 0.1 (Interlat									
	Benzene	mg/kg	0.2 (Primary): 0.1 (Interlat	<0.2	<0.1	0	<0.2			<0.2	<0.1	0
	C6 - C10 F	mg/kg	10 (Primary): 20 (Interlab)	<10.0	<20.0	0	<10.0			<10.0	<20.0	0
	C6 - C10 F	mg/kg	10 (Primary): 20 (Interlab)	<10.0	<20.0	0	<10.0			<10.0	<20.0	0
	C6 - C9 Fra	mg/kg	10 (Primary): 20 (Interlab)	<10.0	<20.0	0	<10.0			<10.0	<20.0	0
	Ethylbenze	mg/kg	0.5 (Primary): 0.1 (Interlat									
	Ethylbenze	mg/kg	0.5 (Primary): 0.1 (Interlat	<0.5	<0.1	0	<0.5			<0.5	<0.1	0
	meta- & pa	mg/kg	0.5 (Primary): 0.2 (Interlat									
	meta- & pa	mg/kg	0.5 (Primary): 0.2 (Interlat	<0.5	<0.2	0	<0.5			<0.5	<0.2	0
	ortho-Xyler	mg/kg	0.5 (Primary): 0.1 (Interlat									
	ortho-Xyler	mg/kg	0.5 (Primary): 0.1 (Interlat	<0.5	<0.1	0	<0.5			<0.5	<0.1	0
	Sum of BT	mg/kg	0.2	<0.2			<0.2			<0.2		
es/BTEX												
VOC	1,2,4-trime	mg/kg	0.5	<0.5	<0.5	0	<0.5					
	1,3,5-trime	mg/kg	0.5	<0.5	<0.5	0	<0.5					
	2-chlorotol	mg/kg	0.5	<0.5			<0.5					
	4-chlorotol	mg/kg	0.5	<0.5	<0.5	0	<0.5					
	Bromobenz	mg/kg	0.5	<0.5	<0.5	0	<0.5					
	Isopropylbe	mg/kg	0.5	<0.5	<0.5	0	<0.5					
	n-butylbenz	mg/kg	0.5	<0.5			<0.5					
	n-propylbe	mg/kg	0.5	<0.5			<0.5					
	p-isopropyl	mg/kg	0.5	<0.5			<0.5					
	sec-butylbe	mg/kg	0.5	<0.5			<0.5					
	Styrene	mg/kg	0.5	<0.5	<0.5	0	<0.5					
	tert-butylbe	mg/kg	0.5	<0.5			<0.5					
	1,1,1,2-tetr	mg/kg	0.5	<0.5	<0.5	0	<0.5					
	1,1,1-trichl	mg/kg	0.5	<0.5	<0.5	0	<0.5					
	1,1,2,2-tetr	mg/kg	0.5	<0.5	<0.5	0	<0.5					
	1,1,2-trichl	mg/kg	0.5	<0.5	<0.5	0	<0.5					
	1,1-dichlor	mg/kg	0.5	<0.5	<0.5	0	<0.5					
	1,1-dichlor	mg/kg	0.5	<0.5	<0.5	0	<0.5					
	1,1-dichlor	mg/kg	0.5	<0.5			<0.5					
	1,2,3-trichl	mg/kg	0.5	<0.5	<0.5	0	<0.5					
	1,2-dibrom	mg/kg	0.5	<0.5			<0.5					
	1,2-dibrom	mg/kg	0.5	<0.5	<0.5	0	<0.5					
	1,2-dichlor	mg/kg	0.5	<0.5	<0.5	0	<0.5					
	1,2-dichlor	mg/kg	0.5	<0.5	<0.5	0	<0.5					
	1,3-dichlor	mg/kg	0.5	<0.5	<0.5	0	<0.5					
	2,2-dichlor	mg/kg	0.5	<0.5			<0.5					
	2-butanone	mg/kg	5 (Primary): 0.5 (Interlab)	<5.0	<0.5	0	<5.0					
	2-hexanone	mg/kg	5	<5.0			<5.0					
	4-methyl-2-	mg/kg	5 (Primary): 0.5 (Interlab)	<5.0	<0.5	0	<5.0					
	Bromodich	mg/kg	0.5	<0.5	<0.5	0	<0.5					
	Bromoform	mg/kg	0.5	<0.5	<0.5	0	<0.5					
	Bromomet	mg/kg	5 (Primary): 0.5 (Interlab)	<5.0	<0.5	0	<5.0					
	Carbon dis	mg/kg	0.5	<0.5	<0.5	0	<0.5					
	Carbon tetr	mg/kg	0.5	<0.5	<0.5	0	<0.5					
	Chlorodibro	mg/kg	0.5	<0.5	<0.5	0	<0.5					
	Chloroetha	mg/kg	5 (Primary): 0.5 (Interlab)	<5.0	<0.5	0	<5.0					
	Chloroform	mg/kg	0.5	<0.5	<0.5	0	<0.5					
	Chlorometh	mg/kg	5 (Primary): 0.5 (Interlab)	<5.0	<0.5	0	<5.0					
	cis-1,2-dich	mg/kg	0.5	<0.5	<0.5	0	<0.5					
	cis-1,3-dich	mg/kg	0.5	<0.5	<0.5	0	<0.5					
	cis-1,4-Dic	mg/kg	0.5	<0.5			<0.5					
	Dibromome	mg/kg	0.5	<0.5	<0.5	0	<0.5					
	Dichlorodif	mg/kg	5 (Primary): 0.5 (Interlab)	<5.0	<0.5	0	<5.0					
	Iodometha	mg/kg	0.5	<0.5	<0.5	0	<0.5					
	Pentachlor	mg/kg	0.5	<0.5			<0.5					
	TCE	mg/kg	0.5	<0.5	<0.5	0	<0.5					
	Tetrachlord	mg/kg	0.5	<0.5	<0.5	0	<0.5					
	trans-1,2-d	mg/kg	0.5	<0.5	<0.5	0	<0.5					
	trans-1,3-d	mg/kg	0.5	<0.5	<0.5	0	<0.5					
	trans-1,4-D	mg/kg	0.5	<0.5			<0.5					
	Trichloroflu	mg/kg	5 (Primary): 0.5 (Interlab)	<5.0	<0.5	0	<5.0					

Field Duplicates (SOIL)
Filter: Lab_Report_Nu

			Lab Report Number	ES2146990	853323		ES2146990	853323		ES2146990	853323	
			Field ID	BUR_BH113_2.0	T06-20211220	**RPD**	BUR_BH117_0.2	T08-20211221	**RPD**	BUR_BH116_0.2	T07-20211221	**RPD**
			Sampled Date/Time	20/12/2021 15:00	20/12/2021 15:00		21/12/2021 15:00	21/12/2021 15:00		21/12/2021 15:00	21/12/2021 15:00	
	Vinyl aceta	mg/kg	5	<5.0			<5.0					
	Vinyl chlori	mg/kg	5 (Primary): 0.5 (Interlab)	<5.0	<0.5	0	<5.0					
Metals	Arsenic	mg/kg	5 (Primary): 2 (Interlab)	11.0	11.0	0	10.0			8.0	11.0	32
	Cadmium	mg/kg	1 (Primary): 0.4 (Interlab)	<1.0	<0.4	0	5.0			**<1.0**	**3.7**	**115**
	Chromium	mg/kg	2 (Primary): 5 (Interlab)	9.0	12.0	29	22.0			21.0	27.0	25
	Copper	mg/kg	5	35.0	37.0	6	207.0			132.0	120.0	10
	Lead	mg/kg	5	18.0	21.0	15	724.0			746.0	990.0	28
	Mercury	mg/kg	0.1	<0.1	<0.1	0	0.2			0.4	0.4	0
	Nickel	mg/kg	2 (Primary): 5 (Interlab)	7.0	8.3	17	37.0			**13.0**	**43.0**	**107**
	Zinc	mg/kg	5	41.0	44.0	7	1180.0			**633.0**	**990.0**	**44**
PCBs	PCBs (Sun	mg/kg	0.1	<0.1	<0.1	0	<0.1			<0.1	<1.0	0
Pesticides	4,4-DDE	mg/kg	0.05	<0.05	<0.05	0	<0.05			<0.05	<0.5	0
	a-BHC	mg/kg	0.05	<0.05	<0.05	0	<0.05			<0.05	<0.5	0
	Aldrin	mg/kg	0.05	<0.05	<0.05	0	<0.05			<0.05	<0.5	0
	Aldrin + Die	mg/kg	0.05	<0.05	<0.05	0	<0.05			<0.05	<0.5	0
	Azinophos	mg/kg	0.05 (Primary): 0.2 (Interla	<0.05	<0.2	0	<0.05			<0.05	<0.5	0
	b-BHC	mg/kg	0.05	<0.05	<0.05	0	<0.05			<0.05	<0.5	0
	Bromophos	mg/kg	0.05	<0.05			<0.05			<0.05		
	Carbopher	mg/kg	0.05	<0.05			<0.05			<0.05		
	Chlordane	mg/kg	0.05 (Primary): 0.1 (Interla	<0.05	<0.1	0	0.07			<0.05	<1.0	0
	Chlordane	mg/kg	0.05	<0.05			<0.05			<0.05		
	Chlordane	mg/kg	0.05	<0.05			0.07			<0.05		
	Chlorfenvin	mg/kg	0.05 (Primary): 0.2 (Interla	<0.05	<0.2	0	<0.05			<0.05	<0.5	0
	Chlorpyrifo	mg/kg	0.05 (Primary): 0.2 (Interla	<0.05	<0.2	0	<0.05			<0.05	<0.5	0
	Chlorpyrifo	mg/kg	0.05 (Primary): 0.2 (Interla	<0.05	<0.2	0	<0.05			<0.05	<0.5	0
	d-BHC	mg/kg	0.05	<0.05	<0.05	0	<0.05			<0.05	<0.5	0
	DDD	mg/kg	0.05	<0.05	<0.05	0	<0.05			<0.05	<0.5	0
	DDT	mg/kg	0.2 (Primary): 0.05 (Interla	<0.2	<0.05	0	<0.2			<0.2	<0.5	0
	DDT+DDE	mg/kg	0.05	<0.05	<0.05	0	<0.05			<0.05	<0.5	0
	Demeton-S	mg/kg	0.05	<0.05			<0.05			<0.05		
	Diazinon	mg/kg	0.05 (Primary): 0.2 (Interla	<0.05	<0.2	0	<0.05			<0.05	<0.5	0
	Dichlorvos	mg/kg	0.05 (Primary): 0.2 (Interla	<0.05	<0.2	0	<0.05			<0.05	<0.5	0
	Dieldrin	mg/kg	0.05	<0.05	<0.05	0	<0.05			<0.05	<0.5	0
	Dimethoate	mg/kg	0.05 (Primary): 0.2 (Interla	<0.05	<0.2	0	<0.05			<0.05	<0.5	0
	Endosulfan	mg/kg	0.05	<0.05			<0.05			<0.05		
	Endosulfan	mg/kg	0.05	<0.05	<0.05	0	<0.05			<0.05	<0.5	0
	Endosulfan	mg/kg	0.05	<0.05	<0.05	0	<0.05			<0.05	<0.5	0
	Endosulfan	mg/kg	0.05	<0.05	<0.05	0	<0.05			<0.05	<0.5	0
	Endrin	mg/kg	0.05	<0.05	<0.05	0	<0.05			<0.05	<0.5	0
	Endrin alde	mg/kg	0.05	<0.05	<0.05	0	<0.05			<0.05	<0.5	0
	Endrin keto	mg/kg	0.05	<0.05	<0.05	0	<0.05			<0.05	<0.5	0
	Ethion	mg/kg	0.05 (Primary): 0.2 (Interla	<0.05	<0.2	0	<0.05			<0.05	<0.5	0
	Fenamipho	mg/kg	0.05	<0.05			<0.05			<0.05		
	Fenthion	mg/kg	0.05 (Primary): 0.2 (Interla	<0.05	<0.2	0	<0.05			<0.05	<0.5	0
	g-BHC (Lin	mg/kg	0.05	<0.05	<0.05	0	<0.05			<0.05	<0.5	0
	Heptachlor	mg/kg	0.05	<0.05	<0.05	0	<0.05			<0.05	<0.5	0
	Heptachlor	mg/kg	0.05	<0.05	<0.05	0	<0.05			<0.05	<0.5	0
	Hexachloro	mg/kg	0.05	<0.05	<0.05	0	<0.05			<0.05	<0.5	0
	Malathion	mg/kg	0.05 (Primary): 0.2 (Interla	<0.05	<0.2	0	<0.05			<0.05	<0.5	0
	Methoxychl	mg/kg	0.2 (Primary): 0.05 (Interla	<0.2	<0.05	0	<0.2			<0.2	<0.5	0
	Methyl para	mg/kg	0.2	<0.2	<0.2	0	<0.2			<0.2	<0.5	0
	Monocroto	mg/kg	0.2 (Primary): 2 (Interlab)	<0.2	<2.0	0	<0.2			<0.2	<5.0	0
	Parathion	mg/kg	0.2	<0.2	<0.2	0	<0.2			<0.2	<0.5	0
	Pirimphos-	mg/kg	0.05	<0.05			<0.05			<0.05		
	Prothiofos	mg/kg	0.05	<0.05			<0.05			<0.05		

*RPDs have only been considered where a concentration
**High RPDs are in bold (Acceptable RPDs for each EQL
***Interlab Duplicates are matched on a per compound ba

Filter: Lab_Report_Number in('ES2201633','ES2146990','ES2146625','ES2146476')

Field Duplicates (WATER)
Filter: Lab_Report_Number in('ES2202047','ES2201979','ES2201561')

Chem_Group	ChemName	Units	EQL	Lab Report Number	ES2201979	ES2201979		ES2202047	ES2202047	
				Field ID	SMW_BH019	D01_220119	RPD	SMW_BH019	D01_220119	RPD
				Sampled Date	19-Jan-22	19-Jan-22		19-Jan-22	19-Jan-22	
Alkalinity	Hydroxide Alkalinity (as CaCO3)	mg/l	1		<1.0	<1.0	0			
	Total Alkalinity (as CaCO3)	mg/l	1		856.0	855.0	0			
Fluorotelomer Sulfonic Acids	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	µg/L	0.05					<0.05	<0.05	0
	6:2 Fluorotelomer Sulfonate (6:2 FtS)	µg/L	0.05					<0.05	<0.05	0
	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	µg/L	0.05					<0.05	<0.05	0
	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	µg/L	0.05					<0.05	<0.05	0
Major Ions	Sulfate as SO4 - Turbidimetric (Filtered)	mg/l	1		**2.0**	**1.0**	**67**			
	Calcium (Filtered)	mg/l	1		411.0	416.0	1			
	Chloride	mg/l	1		6580.0	6510.0	1			
	Magnesium (Filtered)	mg/l	1		358.0	365.0	2			
	Potassium (Filtered)	mg/l	1		43.0	43.0	0			
	Sodium (Filtered)	mg/l	1		2650.0	2700.0	2			
	Anions Total	meq/L	0.01		203.0	201.0	1			
	Cations Total	meq/L	0.01		166.0	169.0	2			
	Ionic Balance	%	0.01		9.87	8.48	15			
PAHs	Acenaphthene	µg/L	1		<1.0	<1.0	0			
	Acenaphthylene	µg/L	1		<1.0	<1.0	0			
	Anthracene	µg/L	1		<1.0	<1.0	0			
	Benz(a)anthracene	µg/L	1		<1.0	<1.0	0			
	Benzo(a)pyrene	µg/L	0.5 (Primary): 1 (Interlab		<0.5	<0.5	0			
	Benzo(b+j)fluoranthene	µg/L	1		<1.0	<1.0	0			
	Benzo(g,h,i)perylene	µg/L	1		<1.0	<1.0	0			
	Benzo(k)fluoranthene	µg/L	1		<1.0	<1.0	0			
	Chrysene	µg/L	1		<1.0	<1.0	0			
	Dibenz(a,h)anthracene	µg/L	1		<1.0	<1.0	0			
	Fluoranthene	µg/L	1		<1.0	<1.0	0			
	Fluorene	µg/L	1		<1.0	<1.0	0			
	Indeno(1,2,3-c,d)pyrene	µg/L	1		<1.0	<1.0	0			
	Naphthalene	µg/L	5 (Primary): 1 (Interlab)		<5.0	<5.0	0			
	Naphthalene	µg/L	1		<1.0	<1.0	0			
	Phenanthrene	µg/L	1		<1.0	<1.0	0			
	Pyrene	µg/L	1		<1.0	<1.0	0			
	Benzo(a)pyrene TEQ (Zero)	µg/L	0.5		<0.5	<0.5	0			
	PAHs (Sum of total)	µg/L	0.5 (Primary): 1 (Interlab		<0.5	<0.5	0			
PFAS	Perfluorohexanoic acid (PFHxA)	µg/L	0.02					<0.02	<0.02	0
	Perfluorododecanoic acid (PFDoDA)	µg/L	0.02					<0.02	<0.02	0
	Perfluorononanoic acid (PFNA)	µg/L	0.02					<0.02	<0.02	0
	Perfluoropentanoic acid (PFPeA)	µg/L	0.02					<0.02	<0.02	0
	Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.05					<0.05	<0.05	0
	Perfluoroheptanoic acid (PFHpA)	µg/L	0.02					<0.02	<0.02	0
	Perfluorobutanoic acid (PFBA)	µg/L	0.1					<0.1	<0.1	0
	Perfluorodecanoic acid (PFDA)	µg/L	0.02					<0.02	<0.02	0
	Perfluorotridecanoic acid (PFTrDA)	µg/L	0.02					<0.02	<0.02	0
	Perfluoroundecanoic acid (PFUnDA)	µg/L	0.02					<0.02	<0.02	0
	Perfluorooctanoic acid (PFOA)	µg/L	0.01					<0.01	<0.01	0
	Perfluorooctanesulfonic acid (PFOS)	µg/L	0.01					0.02	0.02	0
	Perfluoropentane sulfonic acid (PFPeS)	µg/L	0.02					<0.02	<0.02	0
	Perfluorohexane sulfonic acid (PFHxS)	µg/L	0.01					<0.01	<0.01	0
	Perfluoroheptane sulfonic acid (PFHpS)	µg/L	0.02					<0.02	<0.02	0
	Perfluorodecanesulfonic acid (PFDS)	µg/L	0.02					<0.02	<0.02	0
	Perfluorobutane sulfonic acid (PFBS)	µg/L	0.02					<0.02	<0.02	0
	Sum of PFHxS and PFOS	µg/L	0.01					0.02	0.02	0
	N-ethyl PFO sulfonamidoethanol (EtFOSE)	µg/L	0.05					<0.05	<0.05	0
	N-methyl-PFO sulfonamidoacetic acid (MeFOSA	µg/L	0.02					<0.02	<0.02	0
	N-ethyl-PFO sulfonamidoacetic acid (NEtFOSAA	µg/L	0.02					<0.02	<0.02	0
	N-ethyl PFO sulfonamide (EtFOSA)	µg/L	0.05					<0.05	<0.05	0
	N-Methyl perfluorooctane sulfonamide (MeFOSA	µg/L	0.05					<0.05	<0.05	0
	N-methyl PFO sulfonamidoethanol (MeFOSE)	µg/L	0.05					<0.05	<0.05	0
	Perfluorooctane sulfonamide (FOSA)	µg/L	0.02					<0.02	<0.02	0
	Sum of PFAS	µg/L	0.01					0.02	0.02	0
Physical Parameters	Total Dissolved Solids	mg/l	10		11800.0	11700.0	1			
Total Petroleum Hydrocarbons	C6-C9 Fraction	µg/L	20		<20.0	<20.0	0			
	C10-C14 Fraction	µg/L	50		<50.0	<50.0	0			
	C15-C28 Fraction	µg/L	100		<100.0	<100.0	0			
	C29-C36 Fraction	µg/L	50 (Primary): 100 (Interl		<50.0	<50.0	0			
	C10-C36 Fraction (Sum)	µg/L	50 (Primary): 100 (Interl		<50.0	<50.0	0			
Total Recoverable Hydrocarbons	C6-C10 Fraction	µg/L	20		<20.0	<20.0	0			
	C6-C10 Fraction minus BTEX (F1)	µg/L	20		<20.0	<20.0	0			
	>C10-C16 Fraction	µg/L	100 (Primary): 50 (Interl		<100.0	<100.0	0			
	>C10-C16 Fraction minus naphthalene (F2)	µg/L	100 (Primary): 50 (Interl		<100.0	<100.0	0			
	>C16-C34 Fraction	µg/L	100		<100.0	<100.0	0			
	>C34-C40 Fraction	µg/L	100		<100.0	<100.0	0			
	>C10-C40 Fraction (Sum)	µg/L	100		<100.0	<100.0	0			
BTEX	Benzene	µg/L	1		1.0	1.0	0			
	Toluene	µg/L	2 (Primary): 1 (Interlab)		<2.0	<2.0	0			
	Ethylbenzene	µg/L	2 (Primary): 1 (Interlab)		<2.0	<2.0	0			
	Xylene (m & p)	µg/L	2		<2.0	<2.0	0			
	Xylene (o)	µg/L	2 (Primary): 1 (Interlab)		<2.0	<2.0	0			
	Total Xylene	µg/L	2 (Primary): 3 (Interlab)		<2.0	<2.0	0			
	Total BTEX	µg/L	1		1.0	1.0	0			
Chlorinated Hydrocarbons	1,1-dichloropropene	µg/L	5		<5.0	<5.0	0			
	1,1-dichloroethane	µg/L	5 (Primary): 1 (Interlab)		<5.0	<5.0	0			
	1,1-dichloroethene	µg/L	5 (Primary): 1 (Interlab)		<5.0	<5.0	0			
	1,1,1,2-tetrachloroethane	µg/L	5 (Primary): 1 (Interlab)		<5.0	<5.0	0			
	1,1,1-trichloroethane	µg/L	5 (Primary): 1 (Interlab)		<5.0	<5.0	0			
	1,2-dibromo-3-chloropropane	µg/L	5		<5.0	<5.0	0			
	1,1,2-trichloroethane	µg/L	5 (Primary): 1 (Interlab)		<5.0	<5.0	0			
	1,1,2,2-tetrachloroethane	µg/L	5 (Primary): 1 (Interlab)		<5.0	<5.0	0			
	1,2,3-trichloropropane	µg/L	5 (Primary): 1 (Interlab)		<5.0	<5.0	0			
	1,2-dichloroethane	µg/L	5 (Primary): 1 (Interlab)		<5.0	<5.0	0			
	1,3-dichloropropane	µg/L	5 (Primary): 1 (Interlab)		<5.0	<5.0	0			
	1,2-dichloropropane	µg/L	5 (Primary): 1 (Interlab)		<5.0	<5.0	0			
	2,2-dichloropropane	µg/L	5		<5.0	<5.0	0			
	Bromodichloromethane	µg/L	5 (Primary): 1 (Interlab)		<5.0	<5.0	0			
	Bromoform	µg/L	5 (Primary): 1 (Interlab)		<5.0	<5.0	0			
	Carbon tetrachloride	µg/L	5 (Primary): 1 (Interlab)		<5.0	<5.0	0			
	Chlorodibromomethane	µg/L	5 (Primary): 1 (Interlab)		<5.0	<5.0	0			
	Chloroethane	µg/L	50 (Primary): 5 (Interlab)		<50.0	<50.0	0			
	Chloroform	µg/L	5		<5.0	<5.0	0			
	Chloromethane	µg/L	50 (Primary): 5 (Interlab)		<50.0	<50.0	0			

Field Duplicates (WATER)
Filter: Lab_Report_Number in('ES2202047','ES2201979','ES2201561')

				Lab Report Number	ES2201979	ES2201979		ES2202047	ES2202047	
				Field ID	SMW_BH019	D01_220119	RPD	SMW_BH019	D01_220119	RPD
				Sampled Date	19-Jan-22	19-Jan-22		19-Jan-22	19-Jan-22	
	cis-1,4-Dichloro-2-butene	µg/L	5		<5.0	<5.0	0			
	cis-1,2-dichloroethene	µg/L	5 (Primary): 1 (Interlab)		<5.0	<5.0	0			
	Dibromomethane	µg/L	5 (Primary): 1 (Interlab)		<5.0	<5.0	0			
	cis-1,3-dichloropropene	µg/L	5 (Primary): 1 (Interlab)		<5.0	<5.0	0			
	Hexachlorobutadiene	µg/L	5		<5.0	<5.0	0			
	Pentachloroethane	µg/L	5		<5.0	<5.0	0			
	Tetrachloroethene	µg/L	5 (Primary): 1 (Interlab)		<5.0	<5.0	0			
	trans-1,4-Dichloro-2-butene	µg/L	5		<5.0	<5.0	0			
	trans-1,2-dichloroethene	µg/L	5 (Primary): 1 (Interlab)		<5.0	<5.0	0			
	trans-1,3-dichloropropene	µg/L	5 (Primary): 1 (Interlab)		<5.0	<5.0	0			
	Trichloroethene	µg/L	5 (Primary): 1 (Interlab)		<5.0	<5.0	0			
	Vinyl chloride	µg/L	50 (Primary): 5 (Interlab		<50.0	<50.0	0			
Halogenated Benzenes	1,2,3-trichlorobenzene	µg/L	5		<5.0	<5.0	0			
	1,2-dichlorobenzene	µg/L	5 (Primary): 1 (Interlab)		<5.0	<5.0	0			
	1,2,4-trichlorobenzene	µg/L	5		<5.0	<5.0	0			
	1,3-dichlorobenzene	µg/L	5 (Primary): 1 (Interlab)		<5.0	<5.0	0			
	2-chlorotoluene	µg/L	5		<5.0	<5.0	0			
	1,4-dichlorobenzene	µg/L	5 (Primary): 1 (Interlab)		<5.0	<5.0	0			
	4-chlorotoluene	µg/L	5 (Primary): 1 (Interlab)		<5.0	<5.0	0			
	Bromobenzene	µg/L	5 (Primary): 1 (Interlab)		<5.0	<5.0	0			
	Chlorobenzene	µg/L	5 (Primary): 1 (Interlab)		<5.0	<5.0	0			
Halogenated Hydrocarbons	1,2-dibromoethane	µg/L	5 (Primary): 1 (Interlab)		<5.0	<5.0	0			
	Bromomethane	µg/L	50 (Primary): 5 (Interlab		<50.0	<50.0	0			
	Dichlorodifluoromethane	µg/L	50 (Primary): 5 (Interlab		<50.0	<50.0	0			
	Iodomethane	µg/L	5 (Primary): 1 (Interlab)		<5.0	<5.0	0			
	Trichlorofluoromethane	µg/L	50 (Primary): 5 (Interlab		<50.0	<50.0	0			
Inorganics	Ammonia (as N)	mg/l	0.01		4.76	4.61	3			
	Nitrate (as N)	mg/l	0.01		0.02	0.02	0			
	Nitrite (as N)	mg/l	0.01		<0.01	<0.01	0			
	Total Kjeldahl Nitrogen	mg/l	0.1 (Primary): 0.2 (Interla		6.4	6.3	2			
	Nitrogen (Total)	µg/l	100 (Primary): 200 (Inter		6400.0	6300.0	2			
MAH	1,2,4-trimethylbenzene	mg/l	0.005 (Primary): 0.001 (		<0.005	<0.005	0			
	1,3,5-trimethylbenzene	mg/l	0.005 (Primary): 0.001 (		<0.005	<0.005	0			
	Isopropylbenzene	mg/l	0.005 (Primary): 0.001 (		<0.005	<0.005	0			
	n-butylbenzene	mg/l	0.005		<0.005	<0.005	0			
	n-propylbenzene	mg/l	0.005		<0.005	<0.005	0			
	p-isopropyltoluene	mg/l	0.005		<0.005	<0.005	0			
	sec-butylbenzene	mg/l	0.005		<0.005	<0.005	0			
	tert-butylbenzene	mg/l	0.005		<0.005	<0.005	0			
	Styrene	mg/l	0.005 (Primary): 0.001 (		<0.005	<0.005	0			
Metals	Arsenic (Filtered)	µg/l	1		<1.0	<1.0	0			
	Cadmium (Filtered)	µg/l	0.1		<0.1	<0.1	0			
	Chromium (Filtered)	µg/l	1		<1.0	<1.0	0			
	Copper (Filtered)	µg/l	1		2.0	2.0	0			
	Iron (Filtered)	µg/l	50		5770.0	5780.0	0			
	Lead (Filtered)	µg/l	1		<1.0	<1.0	0			
	Mercury (Filtered)	µg/l	0.1		<0.1	<0.1	0			
	Nickel (Filtered)	µg/l	1		**1.0**	**2.0**	**67**			
	Zinc (Filtered)	µg/l	5		14.0	13.0	7			
Solvents	Methyl Ethyl Ketone (MEK)	µg/L	50 (Primary): 5 (Interlab		<50.0	<50.0	0			
	2-hexanone (MBK)	µg/L	50		<50.0	<50.0	0			
	4-Methyl-2-pentanone	µg/L	50 (Primary): 5 (Interlab		<50.0	<50.0	0			
	Carbon disulfide	µg/L	5 (Primary): 1 (Interlab)		<5.0	<5.0	0			
	Vinyl acetate	µg/L	50		<50.0	<50.0	0			

*RPDs have only been considered where a concentration is greater than 1 times the EQL.
**High RPDs are in bold (Acceptable RPDs for each EQL multiplier range are: 30 (1-10 x EQL); 30 (10-30 x EQL); 30 (> 30 x EQL))
***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory

Field Duplicates (WATER)
Filter: Lab_Report_Number in('ES2202047','ES2201979','ES2201561')

Chem_Group	ChemName	Units	EQL	Lab Report Number	ES2202047	ES2202047		ES2201979	858448	
				Field ID	SMW_BH019	T01_220119	RPD	SMW_BH019	T01-220119	RPD
				Sampled Date	19-Jan-22	19-Jan-22		19-Jan-22	19-Jan-22	
Alkalinity	Hydroxide Alkalinity (as CaCO3)	mg/l	1				<1.0		
	Total Alkalinity (as CaCO3)	mg/l	1				856.0		
Fluorotelomer Sulfonic Acids	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	µg/L	0.05	<0.05	<0.05	0			
	6:2 Fluorotelomer Sulfonate (6:2 FtS)	µg/L	0.05	<0.05	<0.05	0			
	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	µg/L	0.05	<0.05	<0.05	0			
	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	µg/L	0.05	<0.05	<0.05	0			
Major Ions	Sulfate as SO4 - Turbidimetric (Filtered)	mg/l	1				2.0		
	Calcium (Filtered)	mg/l	1				411.0		
	Chloride	mg/l	1				6580.0		
	Magnesium (Filtered)	mg/l	1				358.0		
	Potassium (Filtered)	mg/l	1				43.0		
	Sodium (Filtered)	mg/l	1				2650.0		
	Anions Total	meq/L	0.01				203.0		
	Cations Total	meq/L	0.01				166.0		
	Ionic Balance	%	0.01				9.87		
PAHs	Acenaphthene	µg/L	1				<1.0	<1.0	0
	Acenaphthylene	µg/L	1				<1.0	<1.0	0
	Anthracene	µg/L	1				<1.0	<1.0	0
	Benz(a)anthracene	µg/L	1				<1.0	<1.0	0
	Benzo(a)pyrene	µg/L	0.5 (Primary): 1 (Interlab				<0.5	<1.0	0
	Benzo(b+j)fluoranthene	µg/L	1				<1.0	<1.0	0
	Benzo(g,h,i)perylene	µg/L	1				<1.0	<1.0	0
	Benzo(k)fluoranthene	µg/L	1				<1.0	<1.0	0
	Chrysene	µg/L	1				<1.0	<1.0	0
	Dibenz(a,h)anthracene	µg/L	1				<1.0	<1.0	0
	Fluoranthene	µg/L	1				<1.0	<1.0	0
	Fluorene	µg/L	1				<1.0	<1.0	0
	Indeno(1,2,3-c,d)pyrene	µg/L	1				<1.0	<1.0	0
	Naphthalene	µg/L	5 (Primary): 1 (Interlab)				<5.0	<1.0	0
	Naphthalene	µg/L	1				<1.0	<1.0	0
	Phenanthrene	µg/L	1				<1.0	<1.0	0
	Pyrene	µg/L	1				<1.0	<1.0	0
	Benzo(a)pyrene TEQ (Zero)	µg/L	0.5				<0.5		
	PAHs (Sum of total)	µg/L	0.5 (Primary): 1 (Interlab				<0.5	<1.0	0
PFAS	Perfluorohexanoic acid (PFHxA)	µg/L	0.02	<0.02	<0.02	0			
	Perfluorododecanoic acid (PFDoDA)	µg/L	0.02	<0.02	<0.02	0			
	Perfluorononanoic acid (PFNA)	µg/L	0.02	<0.02	<0.02	0			
	Perfluoropentanoic acid (PFPeA)	µg/L	0.02	<0.02	<0.02	0			
	Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.05	<0.05	<0.05	0			
	Perfluoroheptanoic acid (PFHpA)	µg/L	0.02	<0.02	<0.02	0			
	Perfluorobutanoic acid (PFBA)	µg/L	0.1	<0.1	<0.1	0			
	Perfluorodecanoic acid (PFDA)	µg/L	0.02	<0.02	<0.02	0			
	Perfluorotridecanoic acid (PFTrDA)	µg/L	0.02	<0.02	<0.02	0			
	Perfluoroundecanoic acid (PFUnDA)	µg/L	0.02	<0.02	<0.02	0			
	Perfluorooctanoic acid (PFOA)	µg/L	0.01	<0.01	<0.01	0			
	Perfluorooctanesulfonic acid (PFOS)	µg/L	0.01	0.02	0.02	0			
	Perfluoropentane sulfonic acid (PFPeS)	µg/L	0.02	<0.02	<0.02	0			
	Perfluorohexane sulfonic acid (PFHxS)	µg/L	0.01	<0.01	<0.01	0			
	Perfluoroheptane sulfonic acid (PFHpS)	µg/L	0.02	<0.02	<0.02	0			
	Perfluorodecanesulfonic acid (PFDS)	µg/L	0.02	<0.02	<0.02	0			
	Perfluorobutane sulfonic acid (PFBS)	µg/L	0.02	<0.02	<0.02	0			
	Sum of PFHxS and PFOS	µg/L	0.01	0.02	0.02	0			
	N-ethyl PFO sulfonamidoethanol (EtFOSE)	µg/L	0.05	<0.05	<0.05	0			
	N-methyl-PFO sulfonamidoacetic acid (MeFOSA	µg/L	0.02	<0.02	<0.02	0			
	N-ethyl-PFO sulfonamidoacetic acid (NEtFOSAA	µg/L	0.02	<0.02	<0.02	0			
	N-ethyl PFO sulfonamide (EtFOSA)	µg/L	0.05	<0.05	<0.05	0			
	N-Methyl perfluorooctane sulfonamide (MeFOSA	µg/L	0.05	<0.05	<0.05	0			
	N-methyl PFO sulfonamidoethanol (MeFOSE)	µg/L	0.05	<0.05	<0.05	0			
	Perfluorooctane sulfonamide (FOSA)	µg/L	0.02	<0.02	<0.02	0			
	Sum of PFAS	µg/L	0.01	0.02	0.02	0			
Physical Parameters	Total Dissolved Solids	mg/l	10				11800.0		
Total Petroleum Hydrocarbons	C6-C9 Fraction	µg/L	20				<20.0	<20.0	0
	C10-C14 Fraction	µg/L	50				<50.0	<50.0	0
	C15-C28 Fraction	µg/L	100				<100.0	<100.0	0
	C29-C36 Fraction	µg/L	50 (Primary): 100 (Interla				<50.0	<100.0	0
	C10-C36 Fraction (Sum)	µg/L	50 (Primary): 100 (Interla				<50.0	<100.0	0
Total Recoverable Hydrocarbons	C6-C10 Fraction	µg/L	20				<20.0	<20.0	0
	C6-C10 Fraction minus BTEX (F1)	µg/L	20				<20.0	<20.0	0
	>C10-C16 Fraction	µg/L	100 (Primary): 50 (Interla				<100.0	<50.0	0
	>C10-C16 Fraction minus naphthalene (F2)	µg/L	100 (Primary): 50 (Interla				<100.0	<50.0	0
	>C16-C34 Fraction	µg/L	100				<100.0	<100.0	0
	>C34-C40 Fraction	µg/L	100				**<100.0**	**200.0**	**67**
	>C10-C40 Fraction (Sum)	µg/L	100				**<100.0**	**200.0**	**67**
BTEX	Benzene	µg/L	1				1.0	<1.0	0
	Toluene	µg/L	2 (Primary): 1 (Interlab)				<2.0	<1.0	0
	Ethylbenzene	µg/L	2 (Primary): 1 (Interlab)				<2.0	<1.0	0
	Xylene (m & p)	µg/L	2				<2.0	<2.0	0
	Xylene (o)	µg/L	2 (Primary): 1 (Interlab)				<2.0	<1.0	0
	Total Xylene	µg/L	2 (Primary): 3 (Interlab)				<2.0	<3.0	0
	Total BTEX	µg/L	1				1.0		
Chlorinated Hydrocarbons	1,1-dichloropropene	µg/L	5				<5.0		
	1,1-dichloroethane	µg/L	5 (Primary): 1 (Interlab)				<5.0	<1.0	0
	1,1-dichloroethene	µg/L	5 (Primary): 1 (Interlab)				<5.0	<1.0	0
	1,1,1,2-tetrachloroethane	µg/L	5 (Primary): 1 (Interlab)				<5.0	<1.0	0
	1,1,1-trichloroethane	µg/L	5 (Primary): 1 (Interlab)				<5.0	<1.0	0
	1,2-dibromo-3-chloropropane	µg/L	5				<5.0		
	1,1,2-trichloroethane	µg/L	5 (Primary): 1 (Interlab)				<5.0	<1.0	0
	1,1,2,2-tetrachloroethane	µg/L	5 (Primary): 1 (Interlab)				<5.0	<1.0	0
	1,2,3-trichloropropane	µg/L	5 (Primary): 1 (Interlab)				<5.0	<1.0	0
	1,2-dichloroethane	µg/L	5 (Primary): 1 (Interlab)				<5.0	<1.0	0
	1,3-dichloropropane	µg/L	5 (Primary): 1 (Interlab)				<5.0	<1.0	0
	1,2-dichloropropane	µg/L	5 (Primary): 1 (Interlab)				<5.0	<1.0	0
	2,2-dichloropropane	µg/L	5				<5.0		
	Bromodichloromethane	µg/L	5 (Primary): 1 (Interlab)				<5.0	<1.0	0
	Bromoform	µg/L	5 (Primary): 1 (Interlab)				<5.0	<1.0	0
	Carbon tetrachloride	µg/L	5 (Primary): 1 (Interlab)				<5.0	<1.0	0
	Chlorodibromomethane	µg/L	5 (Primary): 1 (Interlab)				<5.0	<1.0	0
	Chloroethane	µg/L	50 (Primary): 5 (Interlab)				<50.0	<5.0	0
	Chloroform	µg/L	5				<5.0	<5.0	0
	Chloromethane	µg/L	50 (Primary): 5 (Interlab)				<50.0	<5.0	0

Field Duplicates (WATER)
Filter: Lab_Report_Number in('ES2202047','ES2201979','ES2201561')

				Lab Report Number	ES2202047	ES2202047		ES2201979	858448	
				Field ID	SMW_BH019	T01_220119	RPD	SMW_BH019	T01-220119	RPD
				Sampled Date	19-Jan-22	19-Jan-22		19-Jan-22	19-Jan-22	
	cis-1,4-Dichloro-2-butene	µg/L	5				<5.0		
	cis-1,2-dichloroethene	µg/L	5 (Primary): 1 (Interlab)				<5.0	<1.0	0
	Dibromomethane	µg/L	5 (Primary): 1 (Interlab)				<5.0	<1.0	0
	cis-1,3-dichloropropene	µg/L	5 (Primary): 1 (Interlab)				<5.0	<1.0	0
	Hexachlorobutadiene	µg/L	5				<5.0		
	Pentachloroethane	µg/L	5				<5.0		
	Tetrachloroethene	µg/L	5 (Primary): 1 (Interlab)				<5.0	<1.0	0
	trans-1,4-Dichloro-2-butene	µg/L	5				<5.0		
	trans-1,2-dichloroethene	µg/L	5 (Primary): 1 (Interlab)				<5.0	<1.0	0
	trans-1,3-dichloropropene	µg/L	5 (Primary): 1 (Interlab)				<5.0	<1.0	0
	Trichloroethene	µg/L	5 (Primary): 1 (Interlab)				<5.0	<1.0	0
	Vinyl chloride	µg/L	50 (Primary): 5 (Interlab				<50.0	<5.0	0
Halogenated Benzenes	1,2,3-trichlorobenzene	µg/L	5				<5.0		
	1,2-dichlorobenzene	µg/L	5 (Primary): 1 (Interlab)				<5.0	<1.0	0
	1,2,4-trichlorobenzene	µg/L	5				<5.0		
	1,3-dichlorobenzene	µg/L	5 (Primary): 1 (Interlab)				<5.0	<1.0	0
	2-chlorotoluene	µg/L	5				<5.0		
	1,4-dichlorobenzene	µg/L	5 (Primary): 1 (Interlab)				<5.0	<1.0	0
	4-chlorotoluene	µg/L	5 (Primary): 1 (Interlab)				<5.0	<1.0	0
	Bromobenzene	µg/L	5 (Primary): 1 (Interlab)				<5.0	<1.0	0
	Chlorobenzene	µg/L	5 (Primary): 1 (Interlab)				<5.0	<1.0	0
Halogenated Hydrocarbons	1,2-dibromoethane	µg/L	5 (Primary): 1 (Interlab)				<5.0	<1.0	0
	Bromomethane	µg/L	50 (Primary): 5 (Interlab				<50.0	<5.0	0
	Dichlorodifluoromethane	µg/L	50 (Primary): 5 (Interlab				<50.0	<5.0	0
	Iodomethane	µg/L	5 (Primary): 1 (Interlab)				<5.0	<1.0	0
	Trichlorofluoromethane	µg/L	50 (Primary): 5 (Interlab				<50.0	<5.0	0
Inorganics	Ammonia (as N)	mg/l	0.01				4.76		
	Nitrate (as N)	mg/l	0.01				0.02		
	Nitrite (as N)	mg/l	0.01				<0.01		
	Total Kjeldahl Nitrogen	mg/l	0.1 (Primary): 0.2 (Interla				6.4	5.6	13
	Nitrogen (Total)	µg/l	100 (Primary): 200 (Inter				6400.0	5600.0	13
MAH	1,2,4-trimethylbenzene	mg/l	0.005 (Primary): 0.001 (				<0.005	<0.001	0
	1,3,5-trimethylbenzene	mg/l	0.005 (Primary): 0.001 (				<0.005	<0.001	0
	Isopropylbenzene	mg/l	0.005 (Primary): 0.001 (				<0.005	<0.001	0
	n-butylbenzene	mg/l	0.005				<0.005		
	n-propylbenzene	mg/l	0.005				<0.005		
	p-isopropyltoluene	mg/l	0.005				<0.005		
	sec-butylbenzene	mg/l	0.005				<0.005		
	tert-butylbenzene	mg/l	0.005				<0.005		
	Styrene	mg/l	0.005 (Primary): 0.001 (				<0.005	<0.001	0
Metals	Arsenic (Filtered)	µg/l	1				<1.0		
	Cadmium (Filtered)	µg/l	0.1				<0.1		
	Chromium (Filtered)	µg/l	1				<1.0		
	Copper (Filtered)	µg/l	1				2.0		
	Iron (Filtered)	µg/l	50				5770.0		
	Lead (Filtered)	µg/l	1				<1.0		
	Mercury (Filtered)	µg/l	0.1				<0.1		
	Nickel (Filtered)	µg/l	1				1.0		
	Zinc (Filtered)	µg/l	5				14.0		
Solvents	Methyl Ethyl Ketone (MEK)	µg/L	50 (Primary): 5 (Interlab				<50.0	<5.0	0
	2-hexanone (MBK)	µg/L	50				<50.0		
	4-Methyl-2-pentanone	µg/L	50 (Primary): 5 (Interlab				<50.0	<5.0	0
	Carbon disulfide	µg/L	5 (Primary): 1 (Interlab)				<5.0	<1.0	0
	Vinyl acetate	µg/L	50				<50.0		

*RPDs have only been considered where a concentration is greater than 1 times the EQL.
**High RPDs are in bold (Acceptable RPDs for each EQL multiplier range are: 30 (1-10 x EQL); 30 (10-30 x EQL); 3
***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods i

Lab Report Number	ES2146476	ES2146476	ES2146625	ES2146990	ES2146990
Field ID	20211215_R01	20211216_R02	R03_20211217	R04_20211220	R05_20211221
Sampled_Date/Time	15-Dec-21	16-Dec-21	17-Dec-21	20-Dec-21	21-Dec-21
Sample Type	Rinsate	Rinsate	Rinsate	Rinsate	Rinsate

Chem_Group	ChemName	Units	EQL					
Chlorinated HCs	1,2,3-trichlorobenzene	µg/L	5	<5	<5			
	1,2,4-trichlorobenzene	µg/L	5	<5	<5			
	1,2-dichlorobenzene	µg/L	5	<5	<5			
	1,3-dichlorobenzene	µg/L	5	<5	<5			
	1,4-dichlorobenzene	µg/L	5	<5	<5			
	Chlorobenzene	µg/L	5	<5	<5			
Metals	Arsenic	µg/l	0.001	<1	<1		<1	<1
	Arsenic (Filtered)	µg/l	0.001			<1		
	Cadmium	µg/l	0.0001	<0.1	<0.1		<0.1	<0.1
	Cadmium (Filtered)	µg/l	0.0001			<0.1		
	Chromium	µg/l	0.001	<1	<1		<1	<1
	Chromium (Filtered)	µg/l	0.001			<1		
	Copper	µg/l	0.001	<1	<1		<1	<1
	Copper (Filtered)	µg/l	0.001			<1		
	Lead	µg/l	0.001	<1	<1		<1	<1
	Lead (Filtered)	µg/l	0.001			<1		
	Mercury	µg/l	0.0001	<0.1	<0.1		<0.1	<0.1
	Mercury (Filtered)	µg/l	0.0001			<0.1		
	Nickel	µg/l	0.001	<1	<1		<1	<1
	Nickel (Filtered)	µg/l	0.001			<1		
	Zinc	µg/l	0.005	<5	<5		<5	<5
	Zinc (Filtered)	µg/l	0.005			<5		
Naphthalene	Naphthalene	µg/L	1	<5	<5	<5	<5	<5
PCBs	PCBs (Sum of total)	µg/L	1	<1	<1			
Pesticides	4,4-DDE	µg/L	0.5	<0.5	<0.5			
	a-BHC	µg/L	0.5	<0.5	<0.5			
	Aldrin	µg/L	0.5	<0.5	<0.5			
	Aldrin + Dieldrin	µg/L	0.5	<0.5	<0.5			
	Azinophos methyl	µg/L	0.5	<0.5	<0.5			
	b-BHC	µg/L	0.5	<0.5	<0.5			
	Bromophos-ethyl	µg/L	0.5	<0.5	<0.5			
	Carbophenothion	µg/L	0.5	<0.5	<0.5			
	Chlordane	µg/L	0.5	<0.5	<0.5			
	Chlordane (cis)	µg/L	0.5	<0.5	<0.5			
	Chlordane (trans)	µg/L	0.5	<0.5	<0.5			
	Chlorfenvinphos	µg/L	0.5	<0.5	<0.5			
	Chlorpyrifos	µg/L	0.5	<0.5	<0.5			
	Chlorpyrifos-methyl	µg/L	0.5	<0.5	<0.5			
	d-BHC	µg/L	0.5	<0.5	<0.5			
	DDD	µg/L	0.5	<0.5	<0.5			
	DDT	µg/L	2	<2	<2			
	DDT+DDE+DDD	µg/L	0.5	<0.5	<0.5			
	Demeton-S-methyl	µg/L	0.5	<0.5	<0.5			
	Diazinon	µg/L	0.5	<0.5	<0.5			
	Dichlorvos	µg/L	0.5	<0.5	<0.5			
	Dieldrin	µg/L	0.5	<0.5	<0.5			
	Dimethoate	µg/L	0.5	<0.5	<0.5			
	Endosulfan I	µg/L	0.5	<0.5	<0.5			
	Endosulfan II	µg/L	0.5	<0.5	<0.5			
	Endosulfan sulphate	µg/L	0.5	<0.5	<0.5			
	Endrin	µg/L	0.5	<0.5	<0.5			
	Endrin aldehyde	µg/L	0.5	<0.5	<0.5			
	Endrin ketone	µg/L	0.5	<0.5	<0.5			
	Ethion	µg/L	0.5	<0.5	<0.5			
	Fenamiphos	µg/L	0.5	<0.5	<0.5			
	Fenthion	µg/L	0.5	<0.5	<0.5			
	g-BHC (Lindane)	µg/L	0.5	<0.5	<0.5			
	Heptachlor	µg/L	0.5	<0.5	<0.5			
	Heptachlor epoxide	µg/L	0.5	<0.5	<0.5			
	Hexachlorobenzene	µg/L	0.5	<0.5	<0.5			
	Malathion	µg/L	0.5	<0.5	<0.5			
	Methoxychlor	µg/L	2	<2	<2			
	Methyl parathion	µg/L	2	<2	<2			
	Monocrotophos	µg/L	2	<2	<2			
	Parathion	µg/L	2	<2	<2			
	Pirimphos-ethyl	µg/L	0.5	<0.5	<0.5			
	Prothiofos	µg/L	0.5	<0.5	<0.5			
SVOC	Hexachlorobutadiene	µg/L	5	<5	<5			
VOC	1,2,4-trimethylbenzene	µg/L	5	<5	<5			
	1,3,5-trimethylbenzene	µg/L	5	<5	<5			
	2-chlorotoluene	µg/L	5	<5	<5			
	4-chlorotoluene	µg/L	5	<5	<5			
	Bromobenzene	µg/L	5	<5	<5			
	Isopropylbenzene	µg/L	5	<5	<5			
	n-butylbenzene	µg/L	5	<5	<5			
	n-propylbenzene	µg/L	5	<5	<5			
	p-isopropyltoluene	µg/L	5	<5	<5			
	sec-butylbenzene	µg/L	5	<5	<5			
	Styrene	µg/L	5	<5	<5			
	tert-butylbenzene	µg/L	5	<5	<5			
	1,1,1,2-tetrachloroethane	µg/L	5	<5	<5			
	1,1,1-trichloroethane	µg/L	5	<5	<5			
	1,1,2,2-tetrachloroethane	µg/L	5	<5	<5			
	1,1,2-trichloroethane	µg/L	5	<5	<5			
	1,1-dichloroethane	µg/L	5	<5	<5			
	1,1-dichloroethene	µg/L	5	<5	<5			
	1,1-dichloropropene	µg/L	5	<5	<5			
	1,2,3-trichloropropane	µg/L	5	<5	<5			
	1,2-dibromo-3-chloropropane	µg/L	5	<5	<5			
	1,2-dibromoethane	µg/L	5	<5	<5			
	1,2-dichloroethane	µg/L	5	<5	<5			
	1,2-dichloropropane	µg/L	5	<5	<5			
	1,3-dichloropropane	µg/L	5	<5	<5			
	2,2-dichloropropane	µg/L	5	<5	<5			
	2-butanone (MEK)	µg/L	50	<50	<50			
	2-hexanone (MBK)	µg/L	50	<50	<50			
	4-methyl-2-pentanone (MIBK)	µg/L	50	<50	<50			
	Bromodichloromethane	µg/L	5	<5	<5			
	Bromoform	µg/L	5	<5	<5			
	Bromomethane	µg/L	50	<50	<50			

			Lab Report Number	ES2146476	ES2146476	ES2146625	ES2146990	ES2146990
			Field ID	20211215_R01	20211216_R02	R03_20211217	R04_20211220	R05_20211221
			Sampled_Date/Time	15-Dec-21	16-Dec-21	17-Dec-21	20-Dec-21	21-Dec-21
			Sample Type	Rinsate	Rinsate	Rinsate	Rinsate	Rinsate
	Carbon disulfide	µg/L	5	<5	<5			
	Carbon tetrachloride	µg/L	5	<5	<5			
	Chlorodibromomethane	µg/L	5	<5	<5			
	Chloroethane	µg/L	50	<50	<50			
	Chloroform	µg/L	5	<5	<5			
	Chloromethane	µg/L	50	<50	<50			
	cis-1,2-dichloroethene	µg/L	5	<5	<5			
	cis-1,3-dichloropropene	µg/L	5	<5	<5			
	cis-1,4-Dichloro-2-butene	µg/L	5	<5	<5			
	Dibromomethane	µg/L	5	<5	<5			
	Dichlorodifluoromethane	µg/L	50	<50	<50			
	Iodomethane	µg/L	5	<5	<5			
	Pentachloroethane	µg/L	5	<5	<5			
	TCE	µg/L	5	<5	<5			
	Tetrachloroethene	µg/L	5	<5	<5			
	trans-1,2-dichloroethene	µg/L	5	<5	<5			
	trans-1,3-dichloropropene	µg/L	5	<5	<5			
	trans-1,4-Dichloro-2-butene	µg/L	5	<5	<5			
	Trichlorofluoromethane	µg/L	50	<50	<50			
	Vinyl acetate	µg/L	50	<50	<50			
	Vinyl chloride	µg/L	50	<50	<50			

Lab Report	ES2201561	ES2201561	ES2201979	ES2201979	ES2202047		
Field ID	R01_2201117	R01_2201118	RO1-220119	RO1-20-01-22	R01_220121		
Sampled_Date	17-Jan-22	18-Jan-22	19-Jan-22	20-Jan-22	21-Jan-22		
Sample Type	Rinsate	Rinsate	Rinsate	Rinsate	Rinsate		

Chem_Group	**ChemName**	**Units**	**EQL**					
Amino Aliphatics	N-nitrosodiethylamine	µg/L	2					<2
	N-nitrosodi-n-butylamine	µg/L	2					<2
	N-nitrosodi-n-propylamine	µg/L	2					<2
	N-Nitrosomethylethylamine	µg/L	2					<2
Amino Aromatics	1-naphthylamine	µg/L	2					<2
	N-Nitrosodiphenyl & Diphenylamine	µg/L	4					<4
Anilines	2-nitroaniline	µg/L	4					<4
	3-nitroaniline	µg/L	4					<4
	4-chloroaniline	µg/L	2					<2
	4-nitroaniline	µg/L	2					<2
	2-methyl-5-nitroaniline	µg/L	2					<2
	Aniline	µg/L	2					<2
BTEX	Benzene	µg/L	1	<1	<1	<1	<1	<1
	Toluene	µg/L	2	<2	<2	<2	<2	<2
	Ethylbenzene	µg/L	2	<2	<2	<2	<2	<2
	Xylene (m & p)	µg/L	2	<2	<2	<2	<2	<2
	Xylene (o)	µg/L	2	<2	<2	<2	<2	<2
	Total Xylene	µg/L	2	<2	<2	<2	<2	<2
	Total BTEX	µg/L	1	<1	<1	<1	<1	<1
Chlorinated Hydrocarbons	1,1-dichloropropene	µg/L	5	<5	<5	<5	<5	<5
	1,1-dichloroethane	µg/L	5	<5	<5	<5	<5	<5
	1,1-dichloroethene	µg/L	5	<5	<5	<5	<5	<5
	1,1,1,2-tetrachloroethane	µg/L	5	<5	<5	<5	<5	<5
	1,1,1-trichloroethane	µg/L	5	<5	<5	<5	<5	<5
	1,2-dibromo-3-chloropropane	µg/L	5	<5	<5	<5	<5	<5
	1,1,2-trichloroethane	µg/L	5	<5	<5	<5	<5	<5
	1,1,2,2-tetrachloroethane	µg/L	5	<5	<5	<5	<5	<5
	1,2,3-trichloropropane	µg/L	5	<5	<5	<5	<5	<5
	1,2-dichloroethane	µg/L	5	<5	<5	<5	<5	<5
	1,3-dichloropropane	µg/L	5	<5	<5	<5	<5	<5
	1,2-dichloropropane	µg/L	5	<5	<5	<5	<5	<5
	2,2-dichloropropane	µg/L	5	<5	<5	<5	<5	<5
	Bromodichloromethane	µg/L	5	<5	<5	<5	<5	<5
	Bromoform	µg/L	5	<5	<5	<5	<5	<5
	Carbon tetrachloride	µg/L	5	<5	<5	<5	<5	<5
	Chlorodibromomethane	µg/L	5	<5	<5	<5	<5	<5
	Chloroethane	µg/L	50	<50	<50	<50	<50	<50
	Chloroform	µg/L	5	<5	<5	<5	<5	<5
	Chloromethane	µg/L	50	<50	<50	<50	<50	<50
	cis-1,4-Dichloro-2-butene	µg/L	5	<5	<5	<5	<5	<5
	cis-1,2-dichloroethene	µg/L	5	<5	<5	<5	<5	<5
	Dibromomethane	µg/L	5	<5	<5	<5	<5	<5
	cis-1,3-dichloropropene	µg/L	5	<5	<5	<5	<5	<5
	Hexachlorobutadiene	µg/L	2	<5	<5	<5	<5	<2
	Hexachlorocyclopentadiene	µg/L	10					<10
	Pentachloroethane	µg/L	5	<5	<5	<5	<5	<5
	Hexachloroethane	µg/L	2					<2
	Tetrachloroethene	µg/L	5	<5	<5	<5	<5	<5
	trans-1,4-Dichloro-2-butene	µg/L	5	<5	<5	<5	<5	<5
	trans-1,2-dichloroethene	µg/L	5	<5	<5	<5	<5	<5
	trans-1,3-dichloropropene	µg/L	5	<5	<5	<5	<5	<5
	Trichloroethene	µg/L	5	<5	<5	<5	<5	<5
	Vinyl chloride	µg/L	50	<50	<50	<50	<50	<50
Explosives	1,3,5-Trinitrobenzene	µg/L	2					<2
	2,4-Dinitrotoluene	µg/L	4					<4
	2,6-dinitrotoluene	µg/L	4					<4
	Nitrobenzene	µg/L	2					<2
Fluorotelomer Sulfonic Acids	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	µg/L	0.05					<0.05
	6:2 Fluorotelomer Sulfonate (6:2 FtS)	µg/L	0.05					<0.05
	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	µg/L	0.05					<0.05
	10:2 Fluorotelomer sulfonic acid (10:2 FT	µg/L	0.05					<0.05
Halogenated Benzenes	1,2,3-trichlorobenzene	µg/L	5	<5	<5	<5	<5	<5
	1,2-dichlorobenzene	µg/L	2	<5	<5	<5	<5	<2
	1,2,4-trichlorobenzene	µg/L	2	<5	<5	<5	<5	<2
	1,3-dichlorobenzene	µg/L	2	<5	<5	<5	<5	<2
	2-chlorotoluene	µg/L	5	<5	<5	<5	<5	<5
	1,4-dichlorobenzene	µg/L	2	<5	<5	<5	<5	<2
	4-chlorotoluene	µg/L	5	<5	<5	<5	<5	<5
	Bromobenzene	µg/L	5	<5	<5	<5	<5	<5
	Chlorobenzene	µg/L	5	<5	<5	<5	<5	<5
	Pentachlorobenzene	µg/L	2					<2
Halogenated Hydrocarbons	1,2-dibromoethane	µg/L	5	<5	<5	<5	<5	<5
	Bromomethane	µg/L	50	<50	<50	<50	<50	<50
	Dichlorodifluoromethane	µg/L	50	<50	<50	<50	<50	<50
	Iodomethane	µg/L	5	<5	<5	<5	<5	<5
	Trichlorofluoromethane	µg/L	50	<50	<50	<50	<50	<50
Halogenated Phenols	2,4,5-trichlorophenol	µg/L	2					<2
	2,4,6-trichlorophenol	µg/L	2					<2
	2,4-dichlorophenol	µg/L	2					<2
	2,6-dichlorophenol	µg/L	2					<2
	2-chlorophenol	µg/L	2					<2
	Pentachlorophenol	µg/L	4					<4
Herbicides	Pronamide	µg/L	2					<2
Inorganics	Ammonia (as N)	mg/l	0.01	**0.01**	<0.01	**0.02**	<0.01	<0.01
	Nitrate (as N)	mg/l	0.01					
	Nitrite (as N)	mg/l	0.01					
	Total Kjeldahl Nitrogen	mg/l	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Nitrogen (Total)	µg/l	100	<100	<100	<100	<100	<100
MAH	1,2,4-trimethylbenzene	mg/L	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	1,3,5-trimethylbenzene	mg/l	0.005	<0.005	<0.005	<0.005	<0.005	<0.005

			Lab Report	ES2201561	ES2201561	ES2201979	ES2201979	ES2202047
			Field ID	R01_2201117	R01_2201118	RO1-220119	RO1-20-01-22	R01_220121
			Sampled_Date	17-Jan-22	18-Jan-22	19-Jan-22	20-Jan-22	21-Jan-22
			Sample Type	Rinsate	Rinsate	Rinsate	Rinsate	Rinsate
	Isopropylbenzene	mg/l	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	n-butylbenzene	mg/l	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	n-propylbenzene	mg/l	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	p-isopropyltoluene	mg/l	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	sec-butylbenzene	mg/l	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	tert-butylbenzene	mg/l	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Styrene	mg/l	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Metals	Arsenic	µg/L	0.001	<1	<1			<1
	Arsenic (Filtered)	µg/l	0.001			<1	<1	
	Cadmium	µg/L	0.0001	<0.1	<0.1			<0.1
	Cadmium (Filtered)	µg/l	0.0001			<0.1	<0.1	
	Chromium	µg/l	0.001	<1	<1			<1
	Chromium (Filtered)	µg/l	0.001			<1	<1	
	Copper	µg/L	0.001	<1	<1			<1
	Copper (Filtered)	µg/l	0.001			<1	<1	
	Iron	µg/l	0.05	<50	<50			
	Iron (Filtered)	µg/l	0.05			<50	<50	
	Lead	µg/l	0.001	<1	<1			<1
	Lead (Filtered)	µg/l	0.001			<1	<1	
	Mercury	µg/l	0.0001	<0.1	<0.1			<0.1
	Mercury (Filtered)	µg/l	0.0001			<0.1	<0.1	
	Nickel	µg/L	0.001	<1	<1			<1
	Nickel (Filtered)	µg/l	0.001			<1	<1	
	Zinc	µg/L	0.005	<5	<5			<5
	Zinc (Filtered)	µg/l	0.005			<5	<5	
Nitroaromatics	2-Picoline	µg/L	2					<2
	4-aminobiphenyl	µg/L	2					<2
	Pentachloronitrobenzene	µg/L	2					<2
Organochlorine Pesticides	Hexachlorobenzene	µg/L	4					<4
	a-BHC	µg/L	2					<2
	b-BHC	µg/L	2					<2
	d-BHC	µg/L	2					<2
	Dieldrin	µg/L	2					<2
	g-BHC (Lindane)	µg/L	2					<2
	Aldrin	µg/L	2					<2
	Aldrin + Dieldrin	µg/L	4					<4
	DDT	µg/L	4					<4
	4,4-DDE	µg/L	2					<2
	DDD	µg/L	2					<2
	DDT+DDE+DDD	µg/L	4					<4
	Endosulfan I	µg/L	2					<2
	Endosulfan II	µg/L	2					<2
	Endosulfan sulfate	µg/L	2					<2
	Endrin	µg/L	2					<2
	Heptachlor	µg/L	2					<2
	Heptachlor epoxide	µg/L	2					<2
Organophosphorus Pesticides	Chlorfenvinphos	µg/L	2					<2
	Chlorpyrifos	µg/L	2					<2
	Chlorpyrifos-methyl	µg/L	2					<2
	Diazinon	µg/L	2					<2
	Dichlorvos	µg/L	2					<2
	Dimethoate	µg/L	2					<2
	Ethion	µg/L	2					<2
	Fenthion	µg/L	2					<2
	Malathion	µg/L	2					<2
	Pirimphos-ethyl	µg/L	2					<2
	Prothiofos	µg/L	2					<2
PAH/Phenols	2-methylnaphthalene	µg/L	2					<2
PAHs	Acenaphthene	µg/L	1	<1	<1	<1	<1	<2
	Acenaphthylene	µg/L	1	<1	<1	<1	<1	<2
	Anthracene	µg/L	1	<1	<1	<1	<1	<2
	Benz(a)anthracene	µg/L	1	<1	<1	<1	<1	<2
	2-chloronaphthalene	µg/L	2					<2
	Acetophenone	µg/L	2					<2
	Benzo(a)pyrene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<2
	Benzo(b+j)fluoranthene	µg/L	1	<1	<1	<1	<1	<1
	Benzo(g,h,i)perylene	µg/L	1	<1	<1	<1	<1	<2
	Benzo(b+j+k)fluoranthene	µg/L	4					<4
	Benzo(k)fluoranthene	µg/L	1	<1	<1	<1	<1	<1
	Chrysene	µg/L	1	<1	<1	<1	<1	<2
	7,12-dimethylbenz(a)anthracene	µg/L	2					<2
	Dibenz(a,h)anthracene	µg/L	1	<1	<1	<1	<1	<2
	Fluoranthene	µg/L	1	<1	<1	<1	<1	<2
	Fluorene	µg/L	1	<1	<1	<1	<1	<2
	3-methylcholanthrene	µg/L	2					<2
	Indeno(1,2,3-c,d)pyrene	µg/L	1	<1	<1	<1	<1	<2
	Naphthalene	µg/L	1	<5	<5	<5	<5	<5
	Phenanthrene	µg/L	1	<1	<1	<1	<1	<2
	Pyrene	µg/L	1	<1	<1	<1	<1	<2
	Benzo(a)pyrene TEQ (Zero)	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<2
	PAHs (Sum of total)	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<2
PFAS	Perfluorohexanoic acid (PFHxA)	µg/L	0.02					<0.02
	Perfluorododecanoic acid (PFDoDA)	µg/L	0.02					<0.02
	Perfluorononanoic acid (PFNA)	µg/L	0.02					<0.02
	Perfluoropentanoic acid (PFPeA)	µg/L	0.02					<0.02
	Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.05					<0.05
	Perfluoroheptanoic acid (PFHpA)	µg/L	0.02					<0.02
	Perfluorobutanoic acid (PFBA)	µg/L	0.1					<0.1
	Perfluorodecanoic acid (PFDA)	µg/L	0.02					<0.02
	Perfluorotridecanoic acid (PFTrDA)	µg/L	0.02					<0.02
	Perfluoroundecanoic acid (PFUnDA)	µg/L	0.02					<0.02
	Perfluorooctanoic acid (PFOA)	µg/L	0.01					<0.01
	Perfluorooctanesulfonic acid (PFOS)	µg/L	0.01					<0.01
	Perfluoropentane sulfonic acid (PFPeS)	µg/L	0.02					<0.02
	Perfluorohexane sulfonic acid (PFHxS)	µg/L	0.01					<0.01
	Perfluoroheptane sulfonic acid (PFHpS)	µg/L	0.02					<0.02
	Perfluorodecanesulfonic acid (PFDS)	µg/L	0.02					<0.02

			Lab Report	ES2201561	ES2201561	ES2201979	ES2201979	ES2202047
			Field ID	R01_2201117	R01_2201118	RO1-220119	RO1-20-01-22	R01_220121
			Sampled_Date	17-Jan-22	18-Jan-22	19-Jan-22	20-Jan-22	21-Jan-22
			Sample Type	Rinsate	Rinsate	Rinsate	Rinsate	Rinsate
	Perfluorobutane sulfonic acid (PFBS)	µg/L	0.02					<0.02
	Sum of PFHxS and PFOS	µg/L	0.01					<0.01
	N-ethyl PFO sulfonamidoethanol (EtFOS	µg/L	0.05					<0.05
	N-methyl-PFO sulfonamidoacetic acid (M	µg/L	0.02					<0.02
	N-ethyl-PFO sulfonamidoacetic acid (NE	µg/L	0.02					<0.02
	N-ethyl PFO sulfonamide (EtFOSA)	µg/L	0.05					<0.05
	N-Methyl perfluorooctane sulfonamide (M	µg/L	0.05					<0.05
	N-methyl PFO sulfonamidoethanol (MeF	µg/L	0.05					<0.05
	Perfluorooctane sulfonamide (FOSA)	µg/L	0.02					<0.02
	Sum of PFAS	µg/L	0.01					<0.01
Pesticides	Chlorobenzilate	µg/L	2					<2
Phenols	2-methylphenol	µg/L	2					<2
	2-nitrophenol	µg/L	2					<2
	2,4-dimethylphenol	µg/L	2					<2
	4-chloro-3-methylphenol	µg/L	2					<2
	Phenol	µg/L	2					<2
Phthalates	Bis(2-ethylhexyl) phthalate	µg/L	10					<10
	Butyl benzyl phthalate	µg/L	2					<2
	Diethyl Phthalate	µg/L	2					<2
	Dimethyl phthalate	µg/L	2					<2
	Dibutyl Phthalate	µg/L	2					<2
	Di-n-octyl phthalate	µg/L	2					<2
Physical Parameters	Total Dissolved Solids	mg/l	10					
Solvents	Methyl Ethyl Ketone (MEK)	µg/L	50	<50	<50	<50	<50	<50
	2-hexanone (MBK)	µg/L	50	<50	<50	<50	<50	<50
	4-Methyl-2-pentanone	µg/L	50	<50	<50	<50	<50	<50
	Carbon disulfide	µg/L	5	<5	<5	<5	<5	<5
	Isophorone	µg/L	2					<2
	Vinyl acetate	µg/L	50	<50	<50	<50	<50	<50
SVOCs	2-(acetylamino) fluorene	µg/L	2					<2
	3,3-Dichlorobenzidine	µg/L	2					<2
	4-(dimethylamino) azobenzene	µg/L	2					<2
	4-bromophenyl phenyl ether	µg/L	2					<2
	4-chlorophenyl phenyl ether	µg/L	2					<2
	4-Nitroquinoline-N-oxide	µg/L	2					<2
	Azobenzene	µg/L	2					<2
	Bis(2-chloroethoxy) methane	µg/L	2					<2
	Bis(2-chloroethyl)ether	µg/L	2					<2
	Carbazole	µg/L	2					<2
	Dibenzofuran	µg/L	2					<2
	Hexachloropropene	µg/L	2					<2
	Methapyrilene	µg/L	2					<2
	N-nitrosomorpholine	µg/L	2					<2
	N-nitrosopiperidine	µg/L	2					<2
	N-nitrosopyrrolidine	µg/L	4					<4
	Phenacetin	µg/L	2					<2
Total Petroleum Hydrocarbons	C6-C9 Fraction	µg/L	20	<20	<20	<20	<20	<20
	C10-C14 Fraction	µg/L	50	<50	<50	<50	<50	<50
	C15-C28 Fraction	µg/L	100	<100	<100	<100	<100	<100
	C29-C36 Fraction	µg/L	50	<50	<50	<50	<50	<50
	C10-C36 Fraction (Sum)	µg/L	50	<50	<50	<50	<50	<50
Total Recoverable Hydrocarbo	C6-C10 Fraction	µg/L	20	<20	<20	<20	<20	<20
	C6-C10 Fraction minus BTEX (F1)	µg/L	20	<20	<20	<20	<20	<20
	>C10-C16 Fraction	µg/L	100	<100	<100	<100	<100	<100
	>C10-C16 Fraction minus naphthalene (I	µg/L	100	<100	<100	<100	<100	<100
	>C16-C34 Fraction	µg/L	100	<100	<100	<100	<100	<100
	>C34-C40 Fraction	µg/L	100	<100	<100	<100	<100	<100
	>C10-C40 Fraction (Sum)	µg/L	100	<100	<100	<100	<100	<100

Lab Report	ES2202047	ES2202047	ES2202047	ES2202047
Field ID	R01_220119	R01_220118	R01_220117	R01_220120
Sampled_Date	19-Jan-22	18-Jan-22	17-Jan-22	20-Jan-22
Sample Type	Rinsate	Rinsate	Rinsate	Rinsate

Chem_Group	ChemName	Units	EQL				
Amino Aliphatics	N-nitrosodiethylamine	µg/L	2				
	N-nitrosodi-n-butylamine	µg/L	2				
	N-nitrosodi-n-propylamine	µg/L	2				
	N-Nitrosomethylethylamine	µg/L	2				
Amino Aromatics	1-naphthylamine	µg/L	2				
	N-Nitrosodiphenyl & Diphenylamine	µg/L	4				
Anilines	2-nitroaniline	µg/L	4				
	3-nitroaniline	µg/L	4				
	4-chloroaniline	µg/L	2				
	4-nitroaniline	µg/L	2				
	2-methyl-5-nitroaniline	µg/L	2				
	Aniline	µg/L	2				
BTEX	Benzene	µg/L	1				
	Toluene	µg/L	2				
	Ethylbenzene	µg/L	2				
	Xylene (m & p)	µg/L	2				
	Xylene (o)	µg/L	2				
	Total Xylene	µg/L	2				
	Total BTEX	µg/L	1				
Chlorinated Hydrocarbons	1,1-dichloropropene	µg/L	5				
	1,1-dichloroethane	µg/L	5				
	1,1-dichloroethene	µg/L	5				
	1,1,1,2-tetrachloroethane	µg/L	5				
	1,1,1-trichloroethane	µg/L	5				
	1,2-dibromo-3-chloropropane	µg/L	5				
	1,1,2-trichloroethane	µg/L	5				
	1,1,2,2-tetrachloroethane	µg/L	5				
	1,2,3-trichloropropane	µg/L	5				
	1,2-dichloroethane	µg/L	5				
	1,3-dichloropropane	µg/L	5				
	1,2-dichloropropane	µg/L	5				
	2,2-dichloropropane	µg/L	5				
	Bromodichloromethane	µg/L	5				
	Bromoform	µg/L	5				
	Carbon tetrachloride	µg/L	5				
	Chlorodibromomethane	µg/L	5				
	Chloroethane	µg/L	50				
	Chloroform	µg/L	5				
	Chloromethane	µg/L	50				
	cis-1,4-Dichloro-2-butene	µg/L	5				
	cis-1,2-dichloroethene	µg/L	5				
	Dibromomethane	µg/L	5				
	cis-1,3-dichloropropene	µg/L	5				
	Hexachlorobutadiene	µg/L	2				
	Hexachlorocyclopentadiene	µg/L	10				
	Pentachloroethane	µg/L	5				
	Hexachloroethane	µg/L	2				
	Tetrachloroethene	µg/L	5				
	trans-1,4-Dichloro-2-butene	µg/L	5				
	trans-1,2-dichloroethene	µg/L	5				
	trans-1,3-dichloropropene	µg/L	5				
	Trichloroethene	µg/L	5				
	Vinyl chloride	µg/L	50				
Explosives	1,3,5-Trinitrobenzene	µg/L	2				
	2,4-Dinitrotoluene	µg/L	4				
	2,6-dinitrotoluene	µg/L	4				
	Nitrobenzene	µg/L	2				
Fluorotelomer Sulfonic Acids	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	µg/L	0.05	<0.05	<0.05	<0.05	<0.05
	6:2 Fluorotelomer Sulfonate (6:2 FtS)	µg/L	0.05	<0.05	<0.05	<0.05	<0.05
	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	µg/L	0.05	<0.05	<0.05	<0.05	<0.05
	10:2 Fluorotelomer sulfonic acid (10:2 FT	µg/L	0.05	<0.05	<0.05	<0.05	<0.05
Halogenated Benzenes	1,2,3-trichlorobenzene	µg/L	5				
	1,2-dichlorobenzene	µg/L	2				
	1,2,4-trichlorobenzene	µg/L	2				
	1,3-dichlorobenzene	µg/L	2				
	2-chlorotoluene	µg/L	5				
	1,4-dichlorobenzene	µg/L	2				
	4-chlorotoluene	µg/L	5				
	Bromobenzene	µg/L	5				
	Chlorobenzene	µg/L	5				
	Pentachlorobenzene	µg/L	2				
Halogenated Hydrocarbons	1,2-dibromoethane	µg/L	5				
	Bromomethane	µg/L	50				
	Dichlorodifluoromethane	µg/L	50				
	Iodomethane	µg/L	5				
	Trichlorofluoromethane	µg/L	50				
Halogenated Phenols	2,4,5-trichlorophenol	µg/L	2				
	2,4,6-trichlorophenol	µg/L	2				
	2,4-dichlorophenol	µg/L	2				
	2,6-dichlorophenol	µg/L	2				
	2-chlorophenol	µg/L	2				
	Pentachlorophenol	µg/L	4				
Herbicides	Pronamide	µg/L	2				
Inorganics	Ammonia (as N)	mg/l	0.01				
	Nitrate (as N)	mg/l	0.01				
	Nitrite (as N)	mg/l	0.01				
	Total Kjeldahl Nitrogen	mg/l	0.1				
	Nitrogen (Total)	µg/l	100				
MAH	1,2,4-trimethylbenzene	mg/L	0.005				
	1,3,5-trimethylbenzene	mg/l	0.005				

			Lab Report	ES2202047	ES2202047	ES2202047	ES2202047
			Field ID	R01_220119	R01_220118	R01_220117	R01_220120
			Sampled_Date	19-Jan-22	18-Jan-22	17-Jan-22	20-Jan-22
			Sample Type	Rinsate	Rinsate	Rinsate	Rinsate
	Isopropylbenzene	mg/l	0.005				
	n-butylbenzene	mg/l	0.005				
	n-propylbenzene	mg/l	0.005				
	p-isopropyltoluene	mg/l	0.005				
	sec-butylbenzene	mg/l	0.005				
	tert-butylbenzene	mg/l	0.005				
	Styrene	mg/l	0.005				
Metals	Arsenic	µg/L	0.001				
	Arsenic (Filtered)	µg/l	0.001				
	Cadmium	µg/L	0.0001				
	Cadmium (Filtered)	µg/l	0.0001				
	Chromium	µg/l	0.001				
	Chromium (Filtered)	µg/l	0.001				
	Copper	µg/L	0.001				
	Copper (Filtered)	µg/l	0.001				
	Iron	µg/l	0.05				
	Iron (Filtered)	µg/l	0.05				
	Lead	µg/l	0.001				
	Lead (Filtered)	µg/l	0.001				
	Mercury	µg/l	0.0001				
	Mercury (Filtered)	µg/l	0.0001				
	Nickel	µg/L	0.001				
	Nickel (Filtered)	µg/l	0.001				
	Zinc	µg/L	0.005				
	Zinc (Filtered)	µg/l	0.005				
Nitroaromatics	2-Picoline	µg/L	2				
	4-aminobiphenyl	µg/L	2				
	Pentachloronitrobenzene	µg/L	2				
Organochlorine Pesticides	Hexachlorobenzene	µg/L	4				
	a-BHC	µg/L	2				
	b-BHC	µg/L	2				
	d-BHC	µg/L	2				
	Dieldrin	µg/L	2				
	g-BHC (Lindane)	µg/L	2				
	Aldrin	µg/L	2				
	Aldrin + Dieldrin	µg/L	4				
	DDT	µg/L	4				
	4,4-DDE	µg/L	2				
	DDD	µg/L	2				
	DDT+DDE+DDD	µg/L	4				
	Endosulfan I	µg/L	2				
	Endosulfan II	µg/L	2				
	Endosulfan sulfate	µg/L	2				
	Endrin	µg/L	2				
	Heptachlor	µg/L	2				
	Heptachlor epoxide	µg/L	2				
Organophosphorus Pesticides	Chlorfenvinphos	µg/L	2				
	Chlorpyrifos	µg/L	2				
	Chlorpyrifos-methyl	µg/L	2				
	Diazinon	µg/L	2				
	Dichlorvos	µg/L	2				
	Dimethoate	µg/L	2				
	Ethion	µg/L	2				
	Fenthion	µg/L	2				
	Malathion	µg/L	2				
	Pirimphos-ethyl	µg/L	2				
	Prothiofos	µg/L	2				
PAH/Phenols	2-methylnaphthalene	µg/L	2				
PAHs	Acenaphthene	µg/L	1				
	Acenaphthylene	µg/L	1				
	Anthracene	µg/L	1				
	Benz(a)anthracene	µg/L	1				
	2-chloronaphthalene	µg/L	2				
	Acetophenone	µg/L	2				
	Benzo(a)pyrene	µg/L	0.5				
	Benzo(b+j)fluoranthene	µg/L	1				
	Benzo(g,h,i)perylene	µg/L	1				
	Benzo(b+j+k)fluoranthene	µg/L	4				
	Benzo(k)fluoranthene	µg/L	1				
	Chrysene	µg/L	1				
	7,12-dimethylbenz(a)anthracene	µg/L	2				
	Dibenz(a,h)anthracene	µg/L	1				
	Fluoranthene	µg/L	1				
	Fluorene	µg/L	1				
	3-methylcholanthrene	µg/L	2				
	Indeno(1,2,3-c,d)pyrene	µg/L	1				
	Naphthalene	µg/L	1				
	Phenanthrene	µg/L	1				
	Pyrene	µg/L	1				
	Benzo(a)pyrene TEQ (Zero)	µg/L	0.5				
	PAHs (Sum of total)	µg/L	0.5				
PFAS	Perfluorohexanoic acid (PFHxA)	µg/L	0.02	<0.02	<0.02	<0.02	<0.02
	Perfluorododecanoic acid (PFDoDA)	µg/L	0.02	<0.02	<0.02	<0.02	<0.02
	Perfluorononanoic acid (PFNA)	µg/L	0.02	<0.02	<0.02	<0.02	<0.02
	Perfluoropentanoic acid (PFPeA)	µg/L	0.02	<0.02	<0.02	<0.02	<0.02
	Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.05	<0.05	<0.05	<0.05	<0.05
	Perfluoroheptanoic acid (PFHpA)	µg/L	0.02	<0.02	<0.02	<0.02	<0.02
	Perfluorobutanoic acid (PFBA)	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
	Perfluorodecanoic acid (PFDA)	µg/L	0.02	<0.02	<0.02	<0.02	<0.02
	Perfluorotridecanoic acid (PFTrDA)	µg/L	0.02	<0.02	<0.02	<0.02	<0.02
	Perfluoroundecanoic acid (PFUnDA)	µg/L	0.02	<0.02	<0.02	<0.02	<0.02
	Perfluorooctanoic acid (PFOA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01
	Perfluorooctanesulfonic acid (PFOS)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01
	Perfluoropentane sulfonic acid (PFPeS)	µg/L	0.02	<0.02	<0.02	<0.02	<0.02
	Perfluorohexane sulfonic acid (PFHxS)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01
	Perfluoroheptane sulfonic acid (PFHpS)	µg/L	0.02	<0.02	<0.02	<0.02	<0.02
	Perfluorodecanesulfonic acid (PFDS)	µg/L	0.02	<0.02	<0.02	<0.02	<0.02

			Lab Report	ES2202047	ES2202047	ES2202047	ES2202047
			Field ID	R01_220119	R01_220118	R01_220117	R01_220120
			Sampled_Date	19-Jan-22	18-Jan-22	17-Jan-22	20-Jan-22
			Sample Type	Rinsate	Rinsate	Rinsate	Rinsate
	Perfluorobutane sulfonic acid (PFBS)	µg/L	0.02	<0.02	<0.02	<0.02	<0.02
	Sum of PFHxS and PFOS	µg/L	0.01	<0.01	<0.01	<0.01	<0.01
	N-ethyl PFO sulfonamidoethanol (EtFOS	µg/L	0.05	<0.05	<0.05	<0.05	<0.05
	N-methyl-PFO sulfonamidoacetic acid (M	µg/L	0.02	<0.02	<0.02	<0.02	<0.02
	N-ethyl-PFO sulfonamidoacetic acid (NE	µg/L	0.02	<0.02	<0.02	<0.02	<0.02
	N-ethyl PFO sulfonamide (EtFOSA)	µg/L	0.05	<0.05	<0.05	<0.05	<0.05
	N-Methyl perfluorooctane sulfonamide (M	µg/L	0.05	<0.05	<0.05	<0.05	<0.05
	N-methyl PFO sulfonamidoethanol (MeF	µg/L	0.05	<0.05	<0.05	<0.05	<0.05
	Perfluorooctane sulfonamide (FOSA)	µg/L	0.02	<0.02	<0.02	<0.02	<0.02
	Sum of PFAS	µg/L	0.01	<0.01	<0.01	<0.01	<0.01
Pesticides	Chlorobenzilate	µg/L	2				
Phenols	2-methylphenol	µg/L	2				
	2-nitrophenol	µg/L	2				
	2,4-dimethylphenol	µg/L	2				
	4-chloro-3-methylphenol	µg/L	2				
	Phenol	µg/L	2				
Phthalates	Bis(2-ethylhexyl) phthalate	µg/L	10				
	Butyl benzyl phthalate	µg/L	2				
	Diethyl Phthalate	µg/L	2				
	Dimethyl phthalate	µg/L	2				
	Dibutyl Phthalate	µg/L	2				
	Di-n-octyl phthalate	µg/L	2				
Physical Parameters	Total Dissolved Solids	mg/l	10				
Solvents	Methyl Ethyl Ketone (MEK)	µg/L	50				
	2-hexanone (MBK)	µg/L	50				
	4-Methyl-2-pentanone	µg/L	50				
	Carbon disulfide	µg/L	5				
	Isophorone	µg/L	2				
	Vinyl acetate	µg/L	50				
SVOCs	2-(acetylamino) fluorene	µg/L	2				
	3,3-Dichlorobenzidine	µg/L	2				
	4-(dimethylamino) azobenzene	µg/L	2				
	4-bromophenyl phenyl ether	µg/L	2				
	4-chlorophenyl phenyl ether	µg/L	2				
	4-Nitroquinoline-N-oxide	µg/L	2				
	Azobenzene	µg/L	2				
	Bis(2-chloroethoxy) methane	µg/L	2				
	Bis(2-chloroethyl)ether	µg/L	2				
	Carbazole	µg/L	2				
	Dibenzofuran	µg/L	2				
	Hexachloropropene	µg/L	2				
	Methapyrilene	µg/L	2				
	N-nitrosomorpholine	µg/L	2				
	N-nitrosopiperidine	µg/L	2				
	N-nitrosopyrrolidine	µg/L	4				
	Phenacetin	µg/L	2				
Total Petroleum Hydrocarbons	C6-C9 Fraction	µg/L	20				
	C10-C14 Fraction	µg/L	50				
	C15-C28 Fraction	µg/L	100				
	C29-C36 Fraction	µg/L	50				
	C10-C36 Fraction (Sum)	µg/L	50				
Total Recoverable Hydrocarbo	C6-C10 Fraction	µg/L	20				
	C6-C10 Fraction minus BTEX (F1)	µg/L	20				
	>C10-C16 Fraction	µg/L	100				
	>C10-C16 Fraction minus naphthalene (I	µg/L	100				
	>C16-C34 Fraction	µg/L	100				
	>C34-C40 Fraction	µg/L	100				
	>C10-C40 Fraction (Sum)	µg/L	100				

Field Blanks (SOIL)
Filter: Lab_Report_Number in('ES2201633','ES2146990','ES2146625','ES2146476')

Lab Report Number	ES2146476	ES2146625	ES2146990
Field ID	Trip Blank	Trip Blank 1	TB
Sampled_Date/Time	15/12/2021 15:00	15/12/2021 15:00	20/12/2021 15:00
Sample Type	Trip_B	Trip_B	Trip_B

Chem_Group	ChemName	Units	EQL			
	Electrical Conductivity @ 25°C	µS/cm	1			
Asbestos	APPROVED IDENTIFIER:	-				
	Asbestos fibres	-	0.1			
	Sample weight (dry)	g	0.01			
Asbestos Identification in Soi	Organic Fibre	g/kg	0.1			
	Asbestos (Trace)	Fibres	5			
	Asbestos Type	-				
	Description	--				
	Synthetic Mineral Fibre	g/kg	0.1			
Chlorinated HCs	1,2,3-trichlorobenzene	mg/kg	0.5			
	1,2,4-trichlorobenzene	mg/kg	0.5			
	1,2-dichlorobenzene	mg/kg	0.5			
	1,3-dichlorobenzene	mg/kg	0.5			
	1,4-dichlorobenzene	mg/kg	0.5			
	Chlorobenzene	mg/kg	0.5			
Electrical Conductivity (Satur	Electrical Conductivity (Saturated Paste)	µS/cm	1			
Inorganics	Chloride	mg/kg	10			
Metals	Arsenic	mg/kg	5			
	Cadmium	mg/kg	1			
	Chromium	mg/kg	2			
	Copper	mg/kg	5			
	Lead	mg/kg	5			
	Mercury	mg/kg	0.1			
	Nickel	mg/kg	2			
	Zinc	mg/kg	5			
Moisture Content	Moisture Content	%	0.1			
Naphthalene	Naphthalene	mg/kg	0.5	<1	<1	<1
PAH/Phenols (SIM)	Acenaphthene	mg/kg	0.5			
	Acenaphthylene	mg/kg	0.5			
	Anthracene	mg/kg	0.5			
	Fluoranthene	mg/kg	0.5			
	Fluorene	mg/kg	0.5			
	Benz(a)anthracene	mg/kg	0.5			
	Benzo(a)pyrene	mg/kg	0.5			
	Benzo(a)pyrene TEQ (half LOR)	mg/kg	0.5			
	Benzo(a)pyrene TEQ (LOR)	mg/kg	0.5			
	Benzo(a)pyrene TEQ (zero)	mg/kg	0.5			
	Benzo(b+j)fluoranthene	mg/kg	0.5			
	Benzo(g.h.i)perylene	mg/kg	0.5			
	Benzo(k)fluoranthene	mg/kg	0.5			
	Chrysene	mg/kg	0.5			
	Dibenz(a.h)anthracene	mg/kg	0.5			
	Indeno(1.2.3.cd)pyrene	mg/kg	0.5			
	Phenanthrene	mg/kg	0.5			
	Pyrene	mg/kg	0.5			
	Sum of polycyclic aromatic hydrocarbons	mg/kg	0.5			
PCBs	PCBs (Sum of total)	mg/kg	0.1			

Field Blanks (SOIL)
Filter: Lab_Report_Number in('ES2201633','ES2146990','ES2146625','ES2146476')

			Lab Report Number	ES2146476	ES2146625	ES2146990
			Field ID	Trip Blank	Trip Blank 1	TB
			Sampled_Date/Time	15/12/2021 15:00	15/12/2021 15:00	20/12/2021 15:00
			Sample Type	Trip_B	Trip_B	Trip_B
Per- and Polyfluoroalkyl Subst	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	µg/kg	0.5			
	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	µg/kg	0.5			
	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	µg/kg	0.5			
	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	µg/kg	0.5			
	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	µg/kg	0.5			
	N-Ethyl perfluorooctane sulfonamidoacetic acid (Et	µg/kg	0.2			
	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE	µg/kg	0.5			
	N-Methyl perfluorooctane sulfonamide (MeFOSA)	µg/kg	0.5			
	N-Methyl perfluorooctane sulfonamidoacetic acid (M	µg/kg	0.2			
	N-Methyl perfluorooctane sulfonamidoethanol (MeFOS	µg/kg	0.5			
	Perfluorobutanoic acid (PFBA)	µg/kg	1			
	Perfluoroheptane sulfonic acid (PFHpS)	µg/kg	0.2			
	Perfluorooctane sulfonic acid (PFOS)	µg/kg	0.2			
	Perfluoropentane sulfonic acid (PFPeS)	µg/kg	0.2			
	Perfluoropentanoic acid (PFPeA)	µg/kg	0.2			
	Perfluorooctanoic acid (PFOA)	µg/kg	0.2			
	Perfluorotetradecanoic acid (PFTeDA)	µg/kg	0.5			
	Perfluorotridecanoic acid (PFTrDA)	µg/kg	0.2			
	Sum of PFAS	µg/kg	0.2			
	Sum of PFAS (WA DER List)	µg/kg	0.2			
	Sum of PFHxS and PFOS	µg/kg	0.2			
Pesticides	4,4-DDE	mg/kg	0.05			
	a-BHC	mg/kg	0.05			
	Aldrin	mg/kg	0.05			
	Aldrin + Dieldrin	mg/kg	0.05			
	Azinophos methyl	mg/kg	0.05			
	b-BHC	mg/kg	0.05			
	Bromophos-ethyl	mg/kg	0.05			
	Carbophenothion	mg/kg	0.05			
	Chlordane	mg/kg	0.05			
	Chlordane (cis)	mg/kg	0.05			
	Chlordane (trans)	mg/kg	0.05			
	Chlorfenvinphos	mg/kg	0.05			
	Chlorpyrifos	mg/kg	0.05			
	Chlorpyrifos-methyl	mg/kg	0.05			
	d-BHC	mg/kg	0.05			
	DDD	mg/kg	0.05			
	DDT	mg/kg	0.2			
	DDT+DDE+DDD	mg/kg	0.05			
	Demeton-S-methyl	mg/kg	0.05			
	Diazinon	mg/kg	0.05			
	Dichlorvos	mg/kg	0.05			
	Dieldrin	mg/kg	0.05			
	Dimethoate	mg/kg	0.05			
	Endosulfan	mg/kg	0.05			
	Endosulfan I	mg/kg	0.05			
	Endosulfan II	mg/kg	0.05			
	Endosulfan sulphate	mg/kg	0.05			
	Endrin	mg/kg	0.05			
	Endrin aldehyde	mg/kg	0.05			
	Endrin ketone	mg/kg	0.05			
	Ethion	mg/kg	0.05			
	Fenamiphos	mg/kg	0.05			
	Fenthion	mg/kg	0.05			
	g-BHC (Lindane)	mg/kg	0.05			
	Heptachlor	mg/kg	0.05			
	Heptachlor epoxide	mg/kg	0.05			
	Hexachlorobenzene	mg/kg	0.05			
	Malathion	mg/kg	0.05			

Field Blanks (SOIL)
Filter: Lab_Report_Number in('ES2201633','ES2146990','ES2146625','ES2146476')

			Lab Report Number	ES2146476	ES2146625	ES2146990
			Field ID	Trip Blank	Trip Blank 1	TB
			Sampled_Date/Time	15/12/2021 15:00	15/12/2021 15:00	20/12/2021 15:00
			Sample Type	Trip_B	Trip_B	Trip_B
	Methoxychlor	mg/kg	0.2			
	Methyl parathion	mg/kg	0.2			
	Monocrotophos	mg/kg	0.2			
	Parathion	mg/kg	0.2			
	Pirimphos-ethyl	mg/kg	0.05			
	Prothiofos	mg/kg	0.05			
PFOS and PFOA	Perfluorobutanesulfonic acid (PFBS)	mg/kg	0.0002			
	Perfluorodecanesulfonic acid (PFDS)	mg/kg	0.0002			
	Perfluorodecanoic acid (PFDA)	mg/kg	0.0002			
	Perfluorohexanesulfonic acid (PFHxS)	mg/kg	0.0002			
	Perfluorododecanoic acid (PFDoA)	mg/kg	0.0002			
	Perfluoroheptanoic acid (PFHpA)	mg/kg	0.0002			
	Perfluorohexanoic acid (PFHxA)	mg/kg	0.0002			
	Perfluorononanoic acid (PFNA)	mg/kg	0.0002			
	Perfluorooctanesulfonamide (PFOSA)	mg/kg	0.0002			
	Perfluoroundecanoic acid (PFUnA)	mg/kg	0.0002			
SVOC	Hexachlorobutadiene	mg/kg	0.5			
Total Soluble Salts	Total Soluble Salts	mg/kg	5			
TRH - Semivolatile Fraction	>C10 - C16 Fraction	mg/kg	50			
	>C10 - C16 Fraction minus Naphthalene (F2)	mg/kg	50			
	>C10 - C40 Fraction (sum)	mg/kg	50			
	>C16 - C34 Fraction	mg/kg	100			
	>C34 - C40 Fraction	mg/kg	100			
	C10 - C14 Fraction	mg/kg	50			
	C10 - C36 Fraction (sum)	mg/kg	50			
	C15 - C28 Fraction	mg/kg	100			
	C29 - C36 Fraction	mg/kg	100			
TRH Volatiles/BTEX	Toluene	mg/kg	0.5	<0.5	<0.5	<0.5
	Total Xylenes	mg/kg	0.5	<0.5	<0.5	<0.5
	Benzene	mg/kg	0.2	<0.2	<0.2	<0.2
	C6 - C10 Fraction	mg/kg	10		<10	<10
	C6 - C10 Fraction minus BTEX (F1)	mg/kg	10		<10	<10
	C6 - C9 Fraction	mg/kg	10		<10	<10
	Ethylbenzene	mg/kg	0.5	<0.5	<0.5	<0.5
	meta- & para-Xylene	mg/kg	0.5	<0.5	<0.5	<0.5
	ortho-Xylene	mg/kg	0.5	<0.5	<0.5	<0.5
	Sum of BTEX	mg/kg	0.2	<0.2	<0.2	<0.2
VOC	1,2,4-trimethylbenzene	mg/kg	0.5			
	1,3,5-trimethylbenzene	mg/kg	0.5			
	2-chlorotoluene	mg/kg	0.5			
	4-chlorotoluene	mg/kg	0.5			
	Bromobenzene	mg/kg	0.5			
	Isopropylbenzene	mg/kg	0.5			
	n-butylbenzene	mg/kg	0.5			
	n-propylbenzene	mg/kg	0.5			
	p-isopropyltoluene	mg/kg	0.5			
	sec-butylbenzene	mg/kg	0.5			
	Styrene	mg/kg	0.5			
	tert-butylbenzene	mg/kg	0.5			
	1,1,1,2-tetrachloroethane	mg/kg	0.5			
	1,1,1-trichloroethane	mg/kg	0.5			
	1,1,2,2-tetrachloroethane	mg/kg	0.5			
	1,1,2-trichloroethane	mg/kg	0.5			
	1,1-dichloroethane	mg/kg	0.5			

Field Blanks (SOIL)
Filter: Lab_Report_Number in('ES2201633','ES2146990','ES2146625','ES2146476')

			Lab Report Number	ES2146476	ES2146625	ES2146990
			Field ID	Trip Blank	Trip Blank 1	TB
			Sampled_Date/Time	15/12/2021 15:00	15/12/2021 15:00	20/12/2021 15:00
			Sample Type	Trip_B	Trip_B	Trip_B
	1,1-dichloroethene	mg/kg	0.5			
	1,1-dichloropropene	mg/kg	0.5			
	1,2,3-trichloropropane	mg/kg	0.5			
	1,2-dibromo-3-chloropropane	mg/kg	0.5			
	1,2-dibromoethane	mg/kg	0.5			
	1,2-dichloroethane	mg/kg	0.5			
	1,2-dichloropropane	mg/kg	0.5			
	1,3-dichloropropane	mg/kg	0.5			
	2,2-dichloropropane	mg/kg	0.5			
	2-butanone (MEK)	mg/kg	5			
	2-hexanone (MBK)	mg/kg	5			
	4-methyl-2-pentanone (MIBK)	mg/kg	5			
	Bromodichloromethane	mg/kg	0.5			
	Bromoform	mg/kg	0.5			
	Bromomethane	mg/kg	5			
	Carbon disulfide	mg/kg	0.5			
	Carbon tetrachloride	mg/kg	0.5			
	Chlorodibromomethane	mg/kg	0.5			
	Chloroethane	mg/kg	5			
	Chloroform	mg/kg	0.5			
	Chloromethane	mg/kg	5			
	cis-1,2-dichloroethene	mg/kg	0.5			
	cis-1,3-dichloropropene	mg/kg	0.5			
	cis-1,4-Dichloro-2-butene	mg/kg	0.5			
	Dibromomethane	mg/kg	0.5			
	Dichlorodifluoromethane	mg/kg	5			
	Iodomethane	mg/kg	0.5			
	Pentachloroethane	mg/kg	0.5			
	TCE	mg/kg	0.5			
	Tetrachloroethene	mg/kg	0.5			
	trans-1,2-dichloroethene	mg/kg	0.5			
	trans-1,3-dichloropropene	mg/kg	0.5			
	trans-1,4-Dichloro-2-butene	mg/kg	0.5			
	Trichlorofluoromethane	mg/kg	5			
	Vinyl acetate	mg/kg	5			
	Vinyl chloride	mg/kg	5			

Lab Report	ES2201561	ES2201979	ES2202047
Field ID	Trip blank	Trip blank	TRIP BLANK
Sampled_Date	13-Jan-22	13-Jan-22	13-Jan-22
Sample Type	Trip_B	Trip_B	Trip_B

Chem_Group	ChemName	Units	EQL			
BTEX	Benzene	µg/L	1	<1	<1	<1
	Toluene	µg/L	2	<2	<2	<2
	Ethylbenzene	µg/L	2	<2	<2	<2
	Xylene (m & p)	µg/L	2	<2	<2	<2
	Xylene (o)	µg/L	2	<2	<2	<2
	Total Xylene	µg/L	2	<2	<2	<2
	Total BTEX	µg/L	1	<1	<1	<1
PAHs	Naphthalene	µg/L	1	<5	<5	<5
Total Petroleum Hydrocarbons	C6-C9 Fraction	µg/L	20	<20	<20	<20
Total Recoverable Hydrocarbons	C6-C10 Fraction	µg/L	20	<20	<20	<20
	C6-C10 Fraction minus BTEX (F1)	µg/L	20	<20	<20	<20

Contents

Trip Spike Recoveries (70% - 130% is acceptable)

SDG	Lab_Report_Number	Matrix_Type	SampleCode	Field_ID	Compound	Trip_Spike_Result	Trip_Spike_Control	Result_Units	Spike_Recovery_%	Acceptable
ALSE-Sydney 17-Dec-21	ES2146476	SOIL	ES2146476007	Trip Spike	Benzene	<0.2	<0.2	mg/kg	100	Y
ALSE-Sydney 17-Dec-21	ES2146476	SOIL	ES2146476007	Trip Spike	Ethylbenzene	3.6	3.8	mg/kg	95	Y
ALSE-Sydney 17-Dec-21	ES2146476	SOIL	ES2146476007	Trip Spike	meta- & para-Xylene	18.8	20	mg/kg	94	Y
ALSE-Sydney 17-Dec-21	ES2146476	SOIL	ES2146476007	Trip Spike	Naphthalene	1	1	mg/kg	100	Y
ALSE-Sydney 17-Dec-21	ES2146476	SOIL	ES2146476007	Trip Spike	ortho-Xylene	7.9	8.4	mg/kg	94	Y
ALSE-Sydney 17-Dec-21	ES2146476	SOIL	ES2146476007	Trip Spike	Sum of BTEX	49.5	52.4	mg/kg	94	Y
ALSE-Sydney 17-Dec-21	ES2146476	SOIL	ES2146476007	Trip Spike	Toluene	19.2	20.2	mg/kg	95	Y
ALSE-Sydney 17-Dec-21	ES2146476	SOIL	ES2146476007	Trip Spike	Total Xylenes	26.7	28.4	mg/kg	94	Y
ALSE-Sydney 20-Dec-21	ES2146625	SOIL	ES2146625026	Trip Spike 23	Benzene	0.2	0.3	mg/kg	67	N
ALSE-Sydney 20-Dec-21	ES2146625	SOIL	ES2146625026	Trip Spike 23	Ethylbenzene	4.3	5	mg/kg	86	Y
ALSE-Sydney 20-Dec-21	ES2146625	SOIL	ES2146625026	Trip Spike 23	meta- & para-Xylene	21.2	24.7	mg/kg	86	Y
ALSE-Sydney 20-Dec-21	ES2146625	SOIL	ES2146625026	Trip Spike 23	Naphthalene	<1	<1	mg/kg	100	Y
ALSE-Sydney 20-Dec-21	ES2146625	SOIL	ES2146625026	Trip Spike 23	ortho-Xylene	8.8	10.2	mg/kg	86	Y
ALSE-Sydney 20-Dec-21	ES2146625	SOIL	ES2146625026	Trip Spike 23	Sum of BTEX	57.9	68	mg/kg	85	Y
ALSE-Sydney 20-Dec-21	ES2146625	SOIL	ES2146625026	Trip Spike 23	Toluene	23.4	27.8	mg/kg	84	Y
ALSE-Sydney 20-Dec-21	ES2146625	SOIL	ES2146625026	Trip Spike 23	Total Xylenes	30	34.9	mg/kg	86	Y
ALSE-Sydney 22-Dec-21	ES2146990	SOIL	ES2146990026	TS 22	Benzene	<0.2	<0.2	mg/kg	100	Y
ALSE-Sydney 22-Dec-21	ES2146990	SOIL	ES2146990026	TS 22	Ethylbenzene	2.5	3.1	mg/kg	81	Y
ALSE-Sydney 22-Dec-21	ES2146990	SOIL	ES2146990026	TS 22	meta- & para-Xylene	15.5	19.1	mg/kg	81	Y
ALSE-Sydney 22-Dec-21	ES2146990	SOIL	ES2146990026	TS 22	Naphthalene	<1	<1	mg/kg	100	Y
ALSE-Sydney 22-Dec-21	ES2146990	SOIL	ES2146990026	TS 22	ortho-Xylene	5.7	7.4	mg/kg	77	Y
ALSE-Sydney 22-Dec-21	ES2146990	SOIL	ES2146990026	TS 22	Sum of BTEX	41.1	47.3	mg/kg	87	Y
ALSE-Sydney 22-Dec-21	ES2146990	SOIL	ES2146990026	TS 22	Toluene	17.4	17.7	mg/kg	98	Y
ALSE-Sydney 22-Dec-21	ES2146990	SOIL	ES2146990026	TS 22	Total Xylenes	21.2	26.5	mg/kg	80	Y

Field_ID	Trip Spike	TRIP SPIKE	Trip Spike Control	Recovery (%)
Sampled_Date-Time	13/01/2022	13/01/2022		
SampleCode	ES2201979013	ES2202047014		
Lab_Report_Number	ES2201979	ES2202047	ES2202047	ES2202047

Chem_Group	ChemName	Units	EQL				
PAHs	Naphthalene	µg/L	5	<5	18	20	90%
BTEX	Benzene	µg/L	1	<1	16	20	80%
	Toluene	µg/L	2	<2	16	20	80%
	Ethylbenzene	µg/L	2	<2	15	20	75%
	Xylene (m & p)	µg/L	2	<2	15	20	75%
	Xylene (o)	µg/L	2	<2	16	20	80%
	Total Xylene	µg/L	2	<2	31	40	78%
	Total BTEX	µg/L	1	<1	78	100	78%

APPENDIX E LABORATORY CERTIFICATES

CHAIN OF CUSTODY

ALS Laboratory: please tick →

CLIENT: ERM	TURNAROUND REQUIREMENTS : ☐ Standard TAT (List due date):	FOR LABORATORY USE ONLY (Circle)
OFFICE: Sydney	(Standard TAT may be longer for some tests e.g., Ultra Trace Organics) ☐ Non Standard or urgent TAT (List due date):	Custody Seal Intact? Yes No N/A
PROJECT: 0577577 - Burwood	ALS QUOTE NO.:	COC SEQUENCE NUMBER (Circle) COC: 1 2 3 4 5 6 7
ORDER NUMBER:		OF: 1 2 3 4 5 6 7
PROJECT MANAGER: Jessica Lawrence	CONTACT PH: 0404935554	Free ice / Frozen ice bricks present upon receipt? Yes No N/A; Random Sample Temperature on Receipt: °C; Other comment: 2°
SAMPLER: Tristan Rodrigues / Madushani Bolonghe	SAMPLER MOBILE: 0417187687 / 0449091150	
COC emailed to ALS? YES	EDD FORMAT (or default):	
Email Reports to (will default to PM if no other addresses are listed): jessica.lawrence@erm.com, tristan.rodrigues@erm.com		
Email Invoice to (will default to PM if no other addresses are listed): jessica.lawrence@erm.com		

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Madushani Bolonghe			Evrothis!
DATE/TIME: 17/12/2021	DATE/TIME: 17/12/21 1850	DATE/TIME:	DATE/TIME: 20/12 4:46pm

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

#852763

ALS USE	SAMPLE DETAILS MATRIX: SOLID (S) WATER (W)			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required).								Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL CONTAINERS	PFAS (28 analytes) LOR = 5ug/kg	S16	Asbestos ID	VOC	BTEXN			Hold	Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc.
1	BUR_BH105_0.1	15/12/2021	S			x	x	x	x					
2	BUR_BH105_1.0	15/12/2021	S										x	
3	BUR_BH105_2.0	15/12/2021	S										x	
4	BUR_BH105_3.0	15/12/2021	S				x							
5	20211215_R01	15/12/2021	W			x	x		x					
6	Trip Blank	15/12/2021	S							x				
7	Trip Spike	15/12/2021	S							x				

Environmental Division Sydney

Work Order Reference

ES2146476

Telephone : + 61-2-8784 8555

CHAIN OF CUSTODY

ALS Laboratory: please tick →

CLIENT: ERM	TURNAROUND REQUIREMENTS: ☐ Standard TAT (List due date):	FOR LABORATORY USE ONLY (Circle)
OFFICE: Sydney	(Standard TAT may be longer for some tests e.g. Ultra Trace Organics) ☐ Non Standard or urgent TAT (List due date):	Custody Seal Intact? Yes No N/A
PROJECT: 0577577 - Burwood	ALS QUOTE NO.:	Cooling Ice / Gel Ice Packs present upon receipt? Yes No N/A
ORDER NUMBER:	COC SEQUENCE NUMBER (Circle) COC: 1 2 3 4 5 6 7	Random Sample Temperature on Receipt: 2.6 °C
PROJECT MANAGER: Jessica Lawrence CONTACT PH: 0404935554	OF: 1 2 3 4 5 6 7	Other comment:

SAMPLER: Tristan Rodrigues / Madushani Bolonghe	SAMPLER MOBILE: 0417187687 / 0449091150	RELINQUISHED BY: Madushani Bolonghe	RECEIVED BY:
COC emailed to ALS? YES	EDD FORMAT (or default):	DATE/TIME: 17/12/2021	DATE/TIME: 17/12 1550
Email Reports to (will default to PM if no other addresses are listed): jessica.lawrence@erm.com, tristan.rodrigues@erm.com		RELINQUISHED BY:	RECEIVED BY: Eurofins Newcastle
Email Invoice to (will default to PM if no other addresses are listed): jessica.lawrence@erm.com		DATE/TIME:	DATE/TIME: 20/12 4:46pm

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL: 488263

ALS USE	SAMPLE DETAILS MATRIX: SOLID (S) WATER (W)			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required).							Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL CONTAINERS	PFAS (28 analytes) LOR = 5ug/kg	S16	Asbestos ID	VOC	BTEXN			Hold	
2	BUR_BH102_0.2 received as 0.15	16/12/2021	S			x	x	x	x					
9	BUR_BH102_1.0	16/12/2021	S										x	
10	BUR_BH102_2.0	16/12/2021	S				x							
11	BUR_BH102_3.0	16/12/2021	S										x	
12	BUR_BH103_0.1	16/12/2021	S			x	x	x	x					
13	BUR_BH103_0.7	16/12/2021	S				x		x					
14	BUR_BH103_1.0	16/12/2021	S										x	
15	BUR_BH103_2.0	16/12/2021	S										x	
16	BUR_BH103_3.0	16/12/2021	S										x	
17	BUR_BH103_4.0	16/12/2021	S										x	
18	BUR_BH103_5.0	16/12/2021	S			x	x		x					

CHAIN OF CUSTODY

ALS Laboratory: please tick →

CLIENT: ERM	TURNAROUND REQUIREMENTS : ☐ Standard TAT (List due date): (Standard TAT may be longer for some tests e.g. Ultra Trace Organics) ☐ Non Standard or urgent TAT (List due date):	FOR LABORATORY USE ONLY (Circle)	
OFFICE: Sydney		Custody Seal Intact?	Yes / No / N/A
PROJECT: 0577577 - Burwood	ALS QUOTE NO.:	Free ice / frozen ice bricks present upon receipt?	Yes / No / N/A
ORDER NUMBER:	COC SEQUENCE NUMBER (Circle) COC: 1 2 3 4 5 6 7	Random Sample Temperature on Receipt:	2.6 °C
PROJECT MANAGER: Jessica Lawrence	CONTACT PH: 0404935554 OF: 1 2 3 4 5 6 7	Other comment:	
SAMPLER: Tristan Rodrigues / Madushani Bolonghe	SAMPLER MOBILE: 0417187687 / 0449091150	RELINQUISHED BY: Madushani Bolonghe	RECEIVED BY: [signature]
COC emailed to ALS? YES	EDD FORMAT (or default):	DATE/TIME: 17/12/2021	DATE/TIME: 17/12/2021
Email Reports to (will default to PM if no other addresses are listed): jessica.lawrence@erm.com, tristan.rodrigues@erm.com		RELINQUISHED BY:	RECEIVED BY: Enviros [signature]
Email Invoice to (will default to PM if no other addresses are listed): jessica.lawrence@erm.com		DATE/TIME:	DATE/TIME: 20/12 4:46pm

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

#882763

ALS USE	SAMPLE DETAILS MATRIX: SOLID (S) WATER (W)			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required).								Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL CONTAINERS	PFAS (28 analytes) LOR = 5ug/kg	S16	Asbestos ID	VOC	BTEXN			Hold	Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc.
19	BUR_BH104_0.2	16/12/2021	S			x	x	x	x					
20	BUR_BH104_1.0	16/12/2021	S				x		x					
21	BUR_BH104_2.0	16/12/2021	S										x	
22	BUR_BH104_3.0	16/12/2021	S										x	
23	BUR_BH104_4.0	16/12/2021	S			x	x							
24	BUR_BH104_5.0	16/12/2021	S										x	
25	BUR_BH118_0.25	16/12/2021	S			x	x	x	x					
26	BUR_BH118_1.0	16/12/2021	S										x	

CHAIN OF CUSTODY

ALS Laboratory: please tick →

CLIENT: ERM	TURNAROUND REQUIREMENTS: ☐ Standard TAT (List due date):	FOR LABORATORY USE ONLY (Circle)
OFFICE: Sydney	(Standard TAT may be longer for some tests e.g. Ultra Trace Organics) ☐ Non Standard or urgent TAT (List due date):	Custody Seal Intact? Yes No N/A
PROJECT: 0577577 - Burwood	ALS QUOTE NO.:	Free ice / frozen ice bricks present upon receipt? Yes No N/A
ORDER NUMBER:	COC SEQUENCE NUMBER (Circle) COC: 1 2 3 4 5 6 7	Random Sample Temperature on Receipt: C
PROJECT MANAGER: Jessica Lawrence CONTACT PH: 0404935554	OF: 1 2 3 4 5 6 7	Other comment: 7.6

SAMPLER: Tristan Rodrigues / Madushani Bolonghe	SAMPLER MOBILE: 0417187687 / 0449091150	RELINQUISHED BY: Madushani Bolonghe	RECEIVED BY:	RELINQUISHED BY:
COC emailed to ALS? YES	EDD FORMAT (or default):			
Email Reports to (will default to PM if no other addresses are listed): jessica.lawrence@erm.com, tristan.rodrigues@erm.com		DATE/TIME:	DATE/TIME:	DATE/TIME:
Email Invoice to (will default to PM if no other addresses are listed): jessica.lawrence@erm.com		17/12/2021		

RECEIVED BY:
Evelyn:
DATE/TIME: 20/12 4:46pm

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL: #852763

ALS USE	SAMPLE DETAILS MATRIX: SOLID (S) WATER (W)			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required).								Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL CONTAINERS	PFAS (28 analytes) LOR = 5ug/kg	S16	Asbestos ID	VOC	BTEXN			Hold	Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc.
27	BUR_BH115_1.5	16/12/2021	S				x		x					
28	BUR_BH118_2.0	16/12/2021	S										x	
29	BUR_BH119_0.25	16/12/2021	S			x	x	x	x					
30	BUR_BH119_1.0	16/12/2021	S				x		x					
31	D01_20211216	16/12/2021	S			x	x		x					
32	T01_20211216	16/12/2021	S			x	x		x					Please forward to Eurofins
33	20211216_R02	16/12/2021	W			x	x		x					
34	Trip Blank	16/12/2021	S							x				
35	Trip Spike	16/12/2021	S							x				

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide/Cd Preserved; S = Sodium Hydroxide Preserved Plastic; AG = Amber Glass Unpreserved; AP = Airfreight Unpreserved Plastic; V = VOA Vial HCl Preserved; VB = VOA Vial Sodium Bisulphate Preserved; VS = VOA Vial Sulfuric Preserved; AV = Airfreight Unpreserved Vial SG = Sulfuric Preserved Amber Glass; H = Hydrochloric Preserved Plastic; FO = (Fumaric/Ascorbic Acid) Preserved Specialty Bottle; ST = Sterile Bottle; F = Formaldehyde Preserved Glass; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottle; AT = Sterile Bottle; ASS = Plastic Bag for Acid Sulphate Soils; B = Unpreserved Bag.

36 TSC 15/12

#38 PFAS 1gr Extra NO ID.

eurofins | Environment Testing

www.eurofins.com.au EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

Sample Receipt Advice

Company name:	ERM Sydney
Contact name:	Jessica Lawrence
Project name:	BURWOOD
Project ID:	0577577
Turnaround time:	5 Day
Date/Time received	Dec 20, 2021 4:46 PM
Eurofins reference	852763

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
X	Split sample sent to requested external lab.
X	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

John Nguyen on phone : or by email: JohnNguyen@eurofins.com

Results will be delivered electronically via email to Jessica Lawrence - jessica.lawrence@erm.com.

Note: A copy of these results will also be delivered to the general ERM Sydney email address.

eurofins | Environment Testing

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
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1/21 Smallwood Place
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NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

Company Name: ERM Sydney
Address: Level 15, 309 Kent St
Sydney
NSW 2000

Project Name: BURWOOD
Project ID: 0577577

Order No.:
Report #: 852763
Phone: 02 8584 8888
Fax: 02 8584 8800

Received: Dec 20, 2021 4:46 PM
Due: Dec 29, 2021
Priority: 5 Day
Contact Name: Jessica Lawrence

Eurofins Analytical Services Manager : John Nguyen

Sample Detail						Eurofins Suite B15	Volatile Organics	Moisture Set	Eurofins Suite B7	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254										
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794										X
Mayfield Laboratory - NATA # 1261 Site # 25079										
Perth Laboratory - NATA # 2377 Site # 2370										
External Laboratory										
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**					
1	T01_20211216	Dec 16, 2021		Soil	S21-De54917	X	X	X	X	X
Test Counts						1	1	1	1	1

ERM Sydney
Level 15, 309 Kent St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: **Jessica Lawrence**

Report **852763-S**
Project name BURWOOD
Project ID 0577577
Received Date Dec 20, 2021

Client Sample ID			[G01]**T01_20211216**
Sample Matrix			**Soil**
Eurofins Sample No.			**S21-De54917**
Date Sampled			**Dec 16, 2021**
Test/Reference	LOR	Unit	
Total Recoverable Hydrocarbons			
TRH C6-C9	20	mg/kg	< 20
TRH C10-C14	20	mg/kg	< 200
TRH C15-C28	50	mg/kg	750
TRH C29-C36	50	mg/kg	660
TRH C10-C36 (Total)	50	mg/kg	1410
Naphthalene[N02]	0.5	mg/kg	< 0.5
TRH C6-C10	20	mg/kg	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20
TRH >C10-C16	50	mg/kg	< 500
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 500
TRH >C16-C34	100	mg/kg	1200
TRH >C34-C40	100	mg/kg	< 1000
TRH >C10-C40 (total)*	100	mg/kg	1200
BTEX			
Benzene	0.1	mg/kg	< 0.1
Toluene	0.1	mg/kg	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2
o-Xylene	0.1	mg/kg	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3
4-Bromofluorobenzene (surr.)	1	%	106
Volatile Organics			
1.1-Dichloroethane	0.5	mg/kg	< 0.5
1.1-Dichloroethene	0.5	mg/kg	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5
1.2-Dibromoethane	0.5	mg/kg	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5
1.2-Dichloroethane	0.5	mg/kg	< 0.5
1.2-Dichloropropane	0.5	mg/kg	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5

Client Sample ID			G01T01_20211216
Sample Matrix			**Soil**
Eurofins Sample No.			**S21-De54917**
Date Sampled			**Dec 16, 2021**
Test/Reference	LOR	Unit	
Volatile Organics			
1.3-Dichloropropane	0.5	mg/kg	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5
2-Butanone (MEK)	0.5	mg/kg	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	< 0.5
4-Chlorotoluene	0.5	mg/kg	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5
Allyl chloride	0.5	mg/kg	< 0.5
Benzene	0.1	mg/kg	< 0.1
Bromobenzene	0.5	mg/kg	< 0.5
Bromochloromethane	0.5	mg/kg	< 0.5
Bromodichloromethane	0.5	mg/kg	< 0.5
Bromoform	0.5	mg/kg	< 0.5
Bromomethane	0.5	mg/kg	< 0.5
Carbon disulfide	0.5	mg/kg	< 0.5
Carbon Tetrachloride	0.5	mg/kg	< 0.5
Chlorobenzene	0.5	mg/kg	< 0.5
Chloroethane	0.5	mg/kg	< 0.5
Chloroform	0.5	mg/kg	< 0.5
Chloromethane	0.5	mg/kg	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5
Dibromochloromethane	0.5	mg/kg	< 0.5
Dibromomethane	0.5	mg/kg	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	< 0.5
Ethylbenzene	0.1	mg/kg	< 0.1
Iodomethane	0.5	mg/kg	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5
m&p-Xylenes	0.2	mg/kg	< 0.2
Methylene Chloride	0.5	mg/kg	< 0.5
o-Xylene	0.1	mg/kg	< 0.1
Styrene	0.5	mg/kg	< 0.5
Tetrachloroethene	0.5	mg/kg	< 0.5
Toluene	0.1	mg/kg	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5
Trichloroethene	0.5	mg/kg	< 0.5
Trichlorofluoromethane	0.5	mg/kg	< 0.5
Vinyl chloride	0.5	mg/kg	< 0.5
Xylenes - Total*	0.3	mg/kg	< 0.3
Total MAH*	0.5	mg/kg	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5
4-Bromofluorobenzene (surr.)	1	%	106
Toluene-d8 (surr.)	1	%	110

Client Sample ID			G01T01_20211216
Sample Matrix			**Soil**
Eurofins Sample No.			**S21-De54917**
Date Sampled			**Dec 16, 2021**
Test/Reference	LOR	Unit	
Polycyclic Aromatic Hydrocarbons			
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	12
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	12
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	12
Acenaphthene	0.5	mg/kg	< 0.5
Acenaphthylene	0.5	mg/kg	1.6
Anthracene	0.5	mg/kg	2.5
Benz(a)anthracene	0.5	mg/kg	8.4
Benzo(a)pyrene	0.5	mg/kg	8.2
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	5.3
Benzo(g.h.i)perylene	0.5	mg/kg	3.5
Benzo(k)fluoranthene	0.5	mg/kg	8.7
Chrysene	0.5	mg/kg	9.6
Dibenz(a.h)anthracene	0.5	mg/kg	0.9
Fluoranthene	0.5	mg/kg	16
Fluorene	0.5	mg/kg	0.7
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	3.2
Naphthalene	0.5	mg/kg	0.6
Phenanthrene	0.5	mg/kg	10
Pyrene	0.5	mg/kg	18
Total PAH*	0.5	mg/kg	97.2
2-Fluorobiphenyl (surr.)	1	%	111
p-Terphenyl-d14 (surr.)	1	%	98
Organochlorine Pesticides			
Chlordanes - Total	0.1	mg/kg	< 1
4.4'-DDD	0.05	mg/kg	< 0.5
4.4'-DDE	0.05	mg/kg	< 0.5
4.4'-DDT	0.05	mg/kg	< 0.5
a-HCH	0.05	mg/kg	< 0.5
Aldrin	0.05	mg/kg	< 0.5
b-HCH	0.05	mg/kg	< 0.5
d-HCH	0.05	mg/kg	< 0.5
Dieldrin	0.05	mg/kg	< 0.5
Endosulfan I	0.05	mg/kg	< 0.5
Endosulfan II	0.05	mg/kg	< 0.5
Endosulfan sulphate	0.05	mg/kg	< 0.5
Endrin	0.05	mg/kg	< 0.5
Endrin aldehyde	0.05	mg/kg	< 0.5
Endrin ketone	0.05	mg/kg	< 0.5
g-HCH (Lindane)	0.05	mg/kg	< 0.5
Heptachlor	0.05	mg/kg	< 0.5
Heptachlor epoxide	0.05	mg/kg	< 0.5
Hexachlorobenzene	0.05	mg/kg	< 0.5
Methoxychlor	0.05	mg/kg	< 0.5
Toxaphene	0.5	mg/kg	< 10
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.5
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.5
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 1
Dibutylchlorendate (surr.)	1	%	INT
Tetrachloro-m-xylene (surr.)	1	%	105

Client Sample ID			G01T01_20211216
Sample Matrix			**Soil**
Eurofins Sample No.			**S21-De54917**
Date Sampled			**Dec 16, 2021**
Test/Reference	LOR	Unit	
Organophosphorus Pesticides			
Azinphos-methyl	0.2	mg/kg	< 0.5
Bolstar	0.2	mg/kg	< 0.5
Chlorfenvinphos	0.2	mg/kg	< 0.5
Chlorpyrifos	0.2	mg/kg	< 0.5
Chlorpyrifos-methyl	0.2	mg/kg	< 0.5
Coumaphos	2	mg/kg	< 5
Demeton-S	0.2	mg/kg	< 0.5
Demeton-O	0.2	mg/kg	< 0.5
Diazinon	0.2	mg/kg	< 0.5
Dichlorvos	0.2	mg/kg	< 0.5
Dimethoate	0.2	mg/kg	< 0.5
Disulfoton	0.2	mg/kg	< 0.5
EPN	0.2	mg/kg	< 0.5
Ethion	0.2	mg/kg	< 0.5
Ethoprop	0.2	mg/kg	< 0.5
Ethyl parathion	0.2	mg/kg	< 0.5
Fenitrothion	0.2	mg/kg	< 0.5
Fensulfothion	0.2	mg/kg	< 0.5
Fenthion	0.2	mg/kg	< 0.5
Malathion	0.2	mg/kg	< 0.5
Merphos	0.2	mg/kg	< 0.5
Methyl parathion	0.2	mg/kg	< 0.5
Mevinphos	0.2	mg/kg	< 0.5
Monocrotophos	2	mg/kg	< 5
Naled	0.2	mg/kg	< 0.5
Omethoate	2	mg/kg	< 5
Phorate	0.2	mg/kg	< 0.5
Pirimiphos-methyl	0.2	mg/kg	< 0.5
Pyrazophos	0.2	mg/kg	< 0.5
Ronnel	0.2	mg/kg	< 0.5
Terbufos	0.2	mg/kg	< 0.5
Tetrachlorvinphos	0.2	mg/kg	< 0.5
Tokuthion	0.2	mg/kg	< 0.5
Trichloronate	0.2	mg/kg	< 0.5
Triphenylphosphate (surr.)	1	%	85
Polychlorinated Biphenyls			
Aroclor-1016	0.1	mg/kg	< 1
Aroclor-1221	0.1	mg/kg	< 1
Aroclor-1232	0.1	mg/kg	< 1
Aroclor-1242	0.1	mg/kg	< 1
Aroclor-1248	0.1	mg/kg	< 1
Aroclor-1254	0.1	mg/kg	< 1
Aroclor-1260	0.1	mg/kg	< 1
Total PCB*	0.1	mg/kg	< 1
Dibutylchlorendate (surr.)	1	%	INT
Tetrachloro-m-xylene (surr.)	1	%	105

Client Sample ID			G01T01_20211216
Sample Matrix			**Soil**
Eurofins Sample No.			**S21-De54917**
Date Sampled			**Dec 16, 2021**
Test/Reference	LOR	Unit	
Heavy Metals			
Arsenic	2	mg/kg	9.8
Cadmium	0.4	mg/kg	0.6
Chromium	5	mg/kg	22
Copper	5	mg/kg	96
Lead	5	mg/kg	350
Mercury	0.1	mg/kg	0.3
Nickel	5	mg/kg	12
Zinc	5	mg/kg	280
% Moisture	1	%	15
Perfluoroalkyl carboxylic acids (PFCAs)			
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5
13C4-PFBA (surr.)	1	%	83
13C5-PFPeA (surr.)	1	%	87
13C5-PFHxA (surr.)	1	%	89
13C4-PFHpA (surr.)	1	%	123
13C8-PFOA (surr.)	1	%	107
13C5-PFNA (surr.)	1	%	132
13C6-PFDA (surr.)	1	%	161
13C2-PFUnDA (surr.)	1	%	120
13C2-PFDoDA (surr.)	1	%	78
13C2-PFTeDA (surr.)	1	%	53
Perfluoroalkyl sulfonamido substances			
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)[N11]	5	ug/kg	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)[N11]	5	ug/kg	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10
13C8-FOSA (surr.)	1	%	78
D3-N-MeFOSA (surr.)	1	%	47
D5-N-EtFOSA (surr.)	1	%	66
D7-N-MeFOSE (surr.)	1	%	59
D9-N-EtFOSE (surr.)	1	%	56

Client Sample ID			[G01]T01_20211216
Sample Matrix			**Soil**
Eurofins Sample No.			**S21-De54917**
Date Sampled			**Dec 16, 2021**
Test/Reference	LOR	Unit	
Perfluoroalkyl sulfonamido substances			
D5-N-EtFOSAA (surr.)	1	%	87
D3-N-MeFOSAA (surr.)	1	%	141
Perfluoroalkyl sulfonic acids (PFSAs)			
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	[N09]8.2
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5
13C3-PFBS (surr.)	1	%	94
18O2-PFHxS (surr.)	1	%	127
13C8-PFOS (surr.)	1	%	115
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)[N11]	10	ug/kg	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5
13C2-4:2 FTSA (surr.)	1	%	163
13C2-6:2 FTSA (surr.)	1	%	196
13C2-8:2 FTSA (surr.)	1	%	171
13C2-10:2 FTSA (surr.)	1	%	INT
PFASs Summations			
Sum (PFHxS + PFOS)*	5	ug/kg	8.2
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	8.2
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	8.2
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Dec 23, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Dec 23, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Dec 23, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Dec 23, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons	Sydney	Dec 23, 2021	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Metals M8	Sydney	Dec 23, 2021	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Volatile Organics	Sydney	Dec 23, 2021	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices			
Eurofins Suite B15			
Organochlorine Pesticides	Sydney	Dec 23, 2021	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Organophosphorus Pesticides	Sydney	Dec 23, 2021	14 Days
- Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS			
Polychlorinated Biphenyls	Sydney	Dec 23, 2021	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
% Moisture	Sydney	Dec 23, 2021	14 Days
- Method: LTM-GEN-7080 Moisture			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Brisbane	Dec 31, 2021	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Brisbane	Dec 31, 2021	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Brisbane	Dec 31, 2021	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Brisbane	Dec 31, 2021	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

eurofins | Environment Testing

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

Company Name: ERM Sydney
Address: Level 15, 309 Kent St
Sydney
NSW 2000

Project Name: BURWOOD
Project ID: 0577577

Order No.:
Report #: 852763
Phone: 02 8584 8888
Fax: 02 8584 8800

Received: Dec 20, 2021 4:46 PM
Due: Dec 29, 2021
Priority: 5 Day
Contact Name: Jessica Lawrence

Eurofins Analytical Services Manager : John Nguyen

Sample Detail						Eurofins Suite B15	Volatile Organics	Moisture Set	Eurofins Suite B7	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254										
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794										X
Mayfield Laboratory - NATA # 1261 Site # 25079										
Perth Laboratory - NATA # 2377 Site # 2370										
External Laboratory										
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**					
1	T01_20211216	Dec 16, 2021		Soil	S21-De54917	X	X	X	X	X
Test Counts						1	1	1	1	1

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
µg/L: micrograms per litre
ppm: parts per million
ppb: parts per billion
%: Percentage
org/100mL: Organisms per 100 millilitres
NTU: Nephelometric Turbidity Units
MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.4
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

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QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
1.1.1-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.1.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dibromoethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.3-Trichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.4-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.3.5-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
2-Butanone (MEK)	mg/kg	< 0.5			0.5	Pass	
2-Propanone (Acetone)	mg/kg	< 0.5			0.5	Pass	
4-Chlorotoluene	mg/kg	< 0.5			0.5	Pass	
4-Methyl-2-pentanone (MIBK)	mg/kg	< 0.5			0.5	Pass	
Allyl chloride	mg/kg	< 0.5			0.5	Pass	
Bromobenzene	mg/kg	< 0.5			0.5	Pass	
Bromochloromethane	mg/kg	< 0.5			0.5	Pass	
Bromodichloromethane	mg/kg	< 0.5			0.5	Pass	
Bromoform	mg/kg	< 0.5			0.5	Pass	
Bromomethane	mg/kg	< 0.5			0.5	Pass	
Carbon disulfide	mg/kg	< 0.5			0.5	Pass	
Carbon Tetrachloride	mg/kg	< 0.5			0.5	Pass	
Chlorobenzene	mg/kg	< 0.5			0.5	Pass	
Chloroethane	mg/kg	< 0.5			0.5	Pass	
Chloroform	mg/kg	< 0.5			0.5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chloromethane	mg/kg	< 0.5			0.5	Pass	
cis-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
cis-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Dibromochloromethane	mg/kg	< 0.5			0.5	Pass	
Dibromomethane	mg/kg	< 0.5			0.5	Pass	
Dichlorodifluoromethane	mg/kg	< 0.5			0.5	Pass	
Iodomethane	mg/kg	< 0.5			0.5	Pass	
Isopropyl benzene (Cumene)	mg/kg	< 0.5			0.5	Pass	
Methylene Chloride	mg/kg	< 0.5			0.5	Pass	
Styrene	mg/kg	< 0.5			0.5	Pass	
Tetrachloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Trichloroethene	mg/kg	< 0.5			0.5	Pass	
Trichlorofluoromethane	mg/kg	< 0.5			0.5	Pass	
Vinyl chloride	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-HCH	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-HCH	mg/kg	< 0.05			0.05	Pass	
d-HCH	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-HCH (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.05			0.05	Pass	
Toxaphene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organophosphorus Pesticides							
Azinphos-methyl	mg/kg	< 0.2			0.2	Pass	
Bolstar	mg/kg	< 0.2			0.2	Pass	
Chlorfenvinphos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos-methyl	mg/kg	< 0.2			0.2	Pass	
Coumaphos	mg/kg	< 2			2	Pass	
Demeton-S	mg/kg	< 0.2			0.2	Pass	
Demeton-O	mg/kg	< 0.2			0.2	Pass	
Diazinon	mg/kg	< 0.2			0.2	Pass	
Dichlorvos	mg/kg	< 0.2			0.2	Pass	
Dimethoate	mg/kg	< 0.2			0.2	Pass	
Disulfoton	mg/kg	< 0.2			0.2	Pass	
EPN	mg/kg	< 0.2			0.2	Pass	
Ethion	mg/kg	< 0.2			0.2	Pass	
Ethoprop	mg/kg	< 0.2			0.2	Pass	
Ethyl parathion	mg/kg	< 0.2			0.2	Pass	
Fenitrothion	mg/kg	< 0.2			0.2	Pass	
Fensulfothion	mg/kg	< 0.2			0.2	Pass	
Fenthion	mg/kg	< 0.2			0.2	Pass	
Malathion	mg/kg	< 0.2			0.2	Pass	
Merphos	mg/kg	< 0.2			0.2	Pass	
Methyl parathion	mg/kg	< 0.2			0.2	Pass	
Mevinphos	mg/kg	< 0.2			0.2	Pass	
Monocrotophos	mg/kg	< 2			2	Pass	
Naled	mg/kg	< 0.2			0.2	Pass	
Omethoate	mg/kg	< 2			2	Pass	
Phorate	mg/kg	< 0.2			0.2	Pass	
Pirimiphos-methyl	mg/kg	< 0.2			0.2	Pass	
Pyrazophos	mg/kg	< 0.2			0.2	Pass	
Ronnel	mg/kg	< 0.2			0.2	Pass	
Terbufos	mg/kg	< 0.2			0.2	Pass	
Tetrachlorvinphos	mg/kg	< 0.2			0.2	Pass	
Tokuthion	mg/kg	< 0.2			0.2	Pass	
Trichloronate	mg/kg	< 0.2			0.2	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.1			0.1	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	Pass	
Aroclor-1232	mg/kg	< 0.1			0.1	Pass	
Aroclor-1242	mg/kg	< 0.1			0.1	Pass	
Aroclor-1248	mg/kg	< 0.1			0.1	Pass	
Aroclor-1254	mg/kg	< 0.1			0.1	Pass	
Aroclor-1260	mg/kg	< 0.1			0.1	Pass	
Total PCB*	mg/kg	< 0.1			0.1	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/kg	< 5			5	Pass	
Perfluoropentanoic acid (PFPeA)	ug/kg	< 5			5	Pass	
Perfluorohexanoic acid (PFHxA)	ug/kg	< 5			5	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/kg	< 5			5	Pass	
Perfluorooctanoic acid (PFOA)	ug/kg	< 5			5	Pass	
Perfluorononanoic acid (PFNA)	ug/kg	< 5			5	Pass	
Perfluorodecanoic acid (PFDA)	ug/kg	< 5			5	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/kg	< 5			5	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/kg	< 5			5	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/kg	< 5			5	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/kg	< 5			5	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/kg	< 5			5	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/kg	< 5			5	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/kg	< 5			5	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	ug/kg	< 5			5	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	ug/kg	< 5			5	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	< 10			10	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	< 10			10	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	ug/kg	< 5			5	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/kg	< 5			5	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/kg	< 5			5	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/kg	< 5			5	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	< 5			5	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/kg	< 5			5	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/kg	< 5			5	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/kg	< 5			5	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	ug/kg	< 10			10	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	96			70-130	Pass	
TRH C10-C14	%	103			70-130	Pass	
Naphthalene	%	110			70-130	Pass	
TRH C6-C10	%	90			70-130	Pass	
TRH >C10-C16	%	102			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	125			70-130	Pass	
Toluene	%	122			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Ethylbenzene	%	113			70-130	Pass	
m&p-Xylenes	%	129			70-130	Pass	
o-Xylene	%	129			70-130	Pass	
Xylenes - Total*	%	129			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethene	%	117			70-130	Pass	
1.1.1-Trichloroethane	%	108			70-130	Pass	
1.2-Dichlorobenzene	%	115			70-130	Pass	
1.2-Dichloroethane	%	128			70-130	Pass	
Trichloroethene	%	108			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	75			70-130	Pass	
Acenaphthylene	%	89			70-130	Pass	
Anthracene	%	78			70-130	Pass	
Benz(a)anthracene	%	77			70-130	Pass	
Benzo(a)pyrene	%	75			70-130	Pass	
Benzo(b&j)fluoranthene	%	75			70-130	Pass	
Benzo(g.h.i)perylene	%	75			70-130	Pass	
Benzo(k)fluoranthene	%	79			70-130	Pass	
Chrysene	%	73			70-130	Pass	
Dibenz(a.h)anthracene	%	70			70-130	Pass	
Fluoranthene	%	74			70-130	Pass	
Fluorene	%	79			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	70			70-130	Pass	
Naphthalene	%	75			70-130	Pass	
Phenanthrene	%	73			70-130	Pass	
Pyrene	%	79			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	76			70-130	Pass	
4.4'-DDD	%	86			70-130	Pass	
4.4'-DDE	%	83			70-130	Pass	
4.4'-DDT	%	70			70-130	Pass	
a-HCH	%	82			70-130	Pass	
Aldrin	%	80			70-130	Pass	
b-HCH	%	85			70-130	Pass	
d-HCH	%	74			70-130	Pass	
Dieldrin	%	95			70-130	Pass	
Endosulfan I	%	82			70-130	Pass	
Endosulfan II	%	84			70-130	Pass	
Endosulfan sulphate	%	75			70-130	Pass	
Endrin	%	92			70-130	Pass	
Endrin aldehyde	%	123			70-130	Pass	
Endrin ketone	%	74			70-130	Pass	
g-HCH (Lindane)	%	84			70-130	Pass	
Heptachlor	%	74			70-130	Pass	
Heptachlor epoxide	%	74			70-130	Pass	
Hexachlorobenzene	%	76			70-130	Pass	
Methoxychlor	%	119			70-130	Pass	
LCS - % Recovery							
Organophosphorus Pesticides							
Diazinon	%	77			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Dimethoate	%	70			70-130	Pass	
Ethion	%	116			70-130	Pass	
Fenitrothion	%	108			70-130	Pass	
Mevinphos	%	95			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1016	%	80			70-130	Pass	
Aroclor-1260	%	77			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	104			80-120	Pass	
Cadmium	%	105			80-120	Pass	
Chromium	%	108			80-120	Pass	
Copper	%	108			80-120	Pass	
Lead	%	103			80-120	Pass	
Mercury	%	104			80-120	Pass	
Nickel	%	107			80-120	Pass	
Zinc	%	103			80-120	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	112			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	107			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	88			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	101			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	98			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	111			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	100			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	147			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	114			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	139			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	119			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	144			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	82			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	121			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	%	115			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	%	98			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	90			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	115			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	85			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	108			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	100			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	89			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	107			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	148			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	112			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	123			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	92			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	%	135			50-150	Pass	

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)			%	125			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)			%	113			50-150	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C10-C14	S21-De51711	NCP	%	100			70-130	Pass	
Naphthalene	S21-De34818	NCP	%	81			70-130	Pass	
TRH >C10-C16	S21-De51711	NCP	%	106			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S21-De34818	NCP	%	76			70-130	Pass	
Toluene	S21-De34818	NCP	%	73			70-130	Pass	
Ethylbenzene	S21-De54636	NCP	%	80			70-130	Pass	
m&p-Xylenes	S21-De34818	NCP	%	75			70-130	Pass	
o-Xylene	S21-De34818	NCP	%	80			70-130	Pass	
Xylenes - Total*	S21-De34818	NCP	%	77			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S21-De56761	NCP	%	87			70-130	Pass	
Acenaphthylene	S21-De56761	NCP	%	101			70-130	Pass	
Anthracene	S21-De56761	NCP	%	89			70-130	Pass	
Benz(a)anthracene	S21-De56761	NCP	%	90			70-130	Pass	
Benzo(a)pyrene	S21-De56761	NCP	%	90			70-130	Pass	
Benzo(b&j)fluoranthene	S21-De56761	NCP	%	92			70-130	Pass	
Benzo(g.h.i)perylene	S21-De56761	NCP	%	77			70-130	Pass	
Benzo(k)fluoranthene	S21-De56761	NCP	%	90			70-130	Pass	
Chrysene	S21-De56761	NCP	%	86			70-130	Pass	
Dibenz(a.h)anthracene	S21-De56761	NCP	%	79			70-130	Pass	
Fluoranthene	S21-De56761	NCP	%	83			70-130	Pass	
Fluorene	S21-De54917	CP	%	93			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S21-De56761	NCP	%	79			70-130	Pass	
Naphthalene	S21-De56761	NCP	%	88			70-130	Pass	
Phenanthrene	S21-De56761	NCP	%	87			70-130	Pass	
Pyrene	S21-De56761	NCP	%	90			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S21-De56761	NCP	%	87			70-130	Pass	
4.4'-DDD	S21-De56761	NCP	%	100			70-130	Pass	
4.4'-DDE	S21-De56761	NCP	%	92			70-130	Pass	
4.4'-DDT	S21-De56761	NCP	%	84			70-130	Pass	
a-HCH	S21-De56761	NCP	%	94			70-130	Pass	
Aldrin	S21-De56761	NCP	%	87			70-130	Pass	
b-HCH	S21-De56761	NCP	%	97			70-130	Pass	
d-HCH	S21-De56761	NCP	%	90			70-130	Pass	
Dieldrin	S21-De56761	NCP	%	106			70-130	Pass	
Endosulfan I	S21-De56761	NCP	%	96			70-130	Pass	
Endosulfan II	S21-De56761	NCP	%	93			70-130	Pass	
Endrin	S21-De56761	NCP	%	106			70-130	Pass	
Endrin ketone	S21-De56761	NCP	%	71			70-130	Pass	
g-HCH (Lindane)	S21-De56761	NCP	%	92			70-130	Pass	
Heptachlor	S21-De56761	NCP	%	70			70-130	Pass	
Heptachlor epoxide	S21-De56761	NCP	%	87			70-130	Pass	
Hexachlorobenzene	S21-De56761	NCP	%	85			70-130	Pass	
Spike - % Recovery									

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Polychlorinated Biphenyls				Result 1					
Aroclor-1016	S21-De56761	NCP	%	85			70-130	Pass	
Aroclor-1260	S21-De56761	NCP	%	84			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S21-De54764	NCP	%	108			75-125	Pass	
Cadmium	S21-De54764	NCP	%	102			75-125	Pass	
Chromium	S21-De54764	NCP	%	97			75-125	Pass	
Copper	S21-De54764	NCP	%	95			75-125	Pass	
Lead	S21-De54764	NCP	%	90			75-125	Pass	
Mercury	S21-De54764	NCP	%	96			75-125	Pass	
Nickel	S21-De54764	NCP	%	90			75-125	Pass	
Zinc	S21-De54764	NCP	%	79			75-125	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	B21-De42378	NCP	%	111			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	B21-De42378	NCP	%	105			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	B21-De42378	NCP	%	74			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	B21-De42378	NCP	%	101			50-150	Pass	
Perfluorooctanoic acid (PFOA)	B21-De42378	NCP	%	95			50-150	Pass	
Perfluorononanoic acid (PFNA)	B21-De42378	NCP	%	107			50-150	Pass	
Perfluorodecanoic acid (PFDA)	B21-De42378	NCP	%	89			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	B21-De42378	NCP	%	143			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	B21-De42378	NCP	%	112			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	B21-De42378	NCP	%	146			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	B21-De42378	NCP	%	146			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	B21-De42378	NCP	%	145			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	B21-De42378	NCP	%	89			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	B21-De42378	NCP	%	107			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	B21-De42378	NCP	%	83			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	B21-De42378	NCP	%	120			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	B21-De42378	NCP	%	90			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	B21-De42378	NCP	%	114			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	B21-De42378	NCP	%	87			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	B21-De42378	NCP	%	107			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	B21-De42378	NCP	%	144			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	B21-De42378	NCP	%	96			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	B21-De42378	NCP	%	111			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluoroheptanesulfonic acid (PFHpS)	B21-De42378	NCP	%	138			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	B21-De42378	NCP	%	102			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	B21-De42378	NCP	%	105			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	B21-De42378	NCP	%	115			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	B21-De42378	NCP	%	77			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	B21-De42378	NCP	%	107			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	B21-De42378	NCP	%	135			50-150	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	S21-De54633	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	N21-De38148	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	N21-De38148	NCP	mg/kg	57	52	9.0	30%	Pass	
TRH C29-C36	N21-De38148	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
Naphthalene	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S21-De54633	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	N21-De38148	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	N21-De38148	NCP	mg/kg	110	110	5.0	30%	Pass	
TRH >C34-C40	N21-De38148	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S21-De54633	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S21-De54633	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S21-De54633	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S21-De54633	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S21-De54633	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S21-De54633	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1-Dichloroethene	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1-Trichloroethane	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2-Trichloroethane	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichlorobenzene	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloroethane	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloropropane	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3-Trichloropropane	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trimethylbenzene	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichlorobenzene	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichloropropane	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3.5-Trimethylbenzene	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.4-Dichlorobenzene	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Butanone (MEK)	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Propanone (Acetone)	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chlorotoluene	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Allyl chloride	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromobenzene	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromochloromethane	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromodichloromethane	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromoform	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromomethane	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon disulfide	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon Tetrachloride	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chlorobenzene	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroethane	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroform	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloromethane	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.2-Dichloroethene	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.3-Dichloropropene	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromochloromethane	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromomethane	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorodifluoromethane	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Iodomethane	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Isopropyl benzene (Cumene)	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Methylene Chloride	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Styrene	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Tetrachloroethene	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.2-Dichloroethene	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.3-Dichloropropene	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichloroethene	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichlorofluoromethane	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Vinyl chloride	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S21-De54702	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S21-De54702	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S21-De54702	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S21-De54702	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S21-De54702	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S21-De54702	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S21-De54702	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S21-De54702	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S21-De54702	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S21-De54702	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S21-De54702	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S21-De54702	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S21-De54702	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S21-De54702	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S21-De54702	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S21-De54702	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S21-De54702	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S21-De54702	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S21-De54702	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S21-De54702	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	S21-De54702	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S21-De54702	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	S21-De54702	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	S21-De54702	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S21-De54702	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S21-De54702	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S21-De54702	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S21-De54702	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S21-De54702	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S21-De54702	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S21-De54702	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	S21-De54702	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S21-De54702	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S21-De54702	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S21-De54702	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S21-De54702	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toxaphene	S21-De54702	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Azinphos-methyl	S21-De54702	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Bolstar	S21-De54702	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorfenvinphos	S21-De54702	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos	S21-De54702	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos-methyl	S21-De54702	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Coumaphos	S21-De54702	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Demeton-S	S21-De54702	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Demeton-O	S21-De54702	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Diazinon	S21-De54702	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dichlorvos	S21-De54702	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dimethoate	S21-De54702	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Disulfoton	S21-De54702	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
EPN	S21-De54702	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethion	S21-De54702	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethoprop	S21-De54702	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethyl parathion	S21-De54702	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenitrothion	S21-De54702	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fensulfothion	S21-De54702	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenthion	S21-De54702	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Malathion	S21-De54702	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Merphos	S21-De54702	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Methyl parathion	S21-De54702	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Mevinphos	S21-De54702	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Monocrotophos	S21-De54702	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Naled	S21-De54702	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Omethoate	S21-De54702	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Phorate	S21-De54702	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pirimiphos-methyl	S21-De54702	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pyrazophos	S21-De54702	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ronnel	S21-De54702	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Terbufos	S21-De54702	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	

Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Tetrachlorvinphos	S21-De54702	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tokuthion	S21-De54702	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Trichloronate	S21-De54702	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	S21-De54702	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1221	S21-De54702	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	S21-De54702	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1242	S21-De54702	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1248	S21-De54702	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1254	S21-De54702	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1260	S21-De54702	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Total PCB*	S21-De54702	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-De54763	NCP	mg/kg	8.1	10	22	30%	Pass	
Cadmium	S21-De54763	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S21-De54763	NCP	mg/kg	16	17	5.0	30%	Pass	
Copper	S21-De54763	NCP	mg/kg	57	57	1.0	30%	Pass	
Lead	S21-De54763	NCP	mg/kg	42	29	37	30%	Fail	Q15
Mercury	S21-De54763	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S21-De54763	NCP	mg/kg	43	45	4.0	30%	Pass	
Zinc	S21-De54763	NCP	mg/kg	57	67	16	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-De54909	NCP	%	24	26	7.0	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	B21-De42159	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	B21-De42159	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	B21-De42159	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	B21-De42159	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	B21-De42159	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	B21-De42159	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	B21-De42159	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	B21-De42159	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	B21-De42159	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	B21-De42159	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	B21-De42159	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	B21-De42159	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	B21-De42159	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	B21-De42159	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	B21-De42159	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	B21-De42159	NCP	ug/kg	< 5	< 5	<1	30%	Pass	

Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	B21-De42159	NCP	ug/kg	< 10	< 10	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	B21-De42159	NCP	ug/kg	< 10	< 10	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	B21-De42159	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	B21-De42159	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	B21-De42159	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	B21-De42159	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	B21-De42159	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	B21-De42159	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	B21-De42159	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	B21-De42159	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	B21-De42159	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	B21-De42159	NCP	ug/kg	< 10	< 10	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	B21-De42159	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	B21-De42159	NCP	ug/kg	< 5	< 5	<1	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
G01	The LORs have been raised due to matrix interference
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
N09	Quantification of linear and branched isomers has been conducted as a single total response using the relative response factor for the corresponding linear/branched standard.
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised by:

Ursula Long	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
John Nguyen	Senior Analyst-Metal (NSW)
Roopesh Rangarajan	Senior Analyst-Volatile (NSW)
Sarah McCallion	Senior Analyst-PFAS (QLD)



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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Subcon / [illegible] / Split PO:
Lab / Analysis: Newcastle → Asbestos
Organised by / Date: Eurofins → TO3_20211217
Relinquished By: TO4_20211217
Connote / Courier: TO2_20211217
WO No:
Attached ID, PO, Internal Sheet:

CHAIN OF CUSTODY

ALS

CLIENT:	ERM	TURNAROUND REQUIREMENTS:	FOR LABORATORY USE ONLY (Circle)
OFFICE:	Sydney		
PROJECT:	0572621 - Burwood	ALS QUOTE NO:	COC SEQUENCE NUMBER (Circle): 1 2 3 4 5 6 7 8 9 10
ORDER NUMBER:			25
PROJECT MANAGER:	Jessica Lawrence	CONTACT PH: 0294913554	
SAMPLER:	Tristan Rodrigues	SAMPLER MOBILE: 0487187067	
COC emailed to ALS?	YES	EDD FORMAT (or default):	
Email Reports to:	[illegible]		
Email Invoice to:	[illegible]		

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Tristan Rodrigues	SCHISH ALS		
DATE/TIME: 20/12/21	DATE/TIME: 20/12/21 17:50	DATE/TIME:	DATE/TIME:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE ONLY	SAMPLE DETAILS (MATRIX: Soil/Solid (S), Water (W))			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB. Suite codes must be listed to attract suite prices)					
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (for codes)	TOTAL BOTTLES	HFAS (28 analytes) LOR= Sydney	BSG	Asbestos	VOC		HOLD
1	DO3_20211217	17/12/21	Soil			X	X		X		
2	TO3_20211217					X	X		X		Please Send to Eurofins
3	BUR_BH120_0.1						X		X		
4	-0.5					X	X				
5	BUR_BH105_0.4					X	X		X		
6	DO4_20211217					X	X		X		
7	TO4_20211217										Please Send to Eurofins
8	BUR_BH106_0.5					X	X		X		
9	-2.4						X				
10	-5.0						X		X		
11	-11.0						X				
12	-20.0					X	X		X		
	-17.0						X				

Water Container Codes:

M. H #853149
22/12/21

Environmental Division
Sydney
Work Order Reference
ES2146625

Telephone : +61-2-8784 8555

CHAIN OF CUSTODY

ALS

CLIENT: ERM
OFFICE: Sydney
PROJECT: 0577577 - Burrabool
ORDER NUMBER:
PROJECT MANAGER: Jessica Lawrence
SAMPLER: Tristan Rodrigues
CONTACT PH: 0424135554
SAMPLER MOBILE: 0417187487
EDD FORMAT (or default):
CCC emailed to ALS? YES
Email Reports to:
Email Invoice to:

TURNAROUND REQUIREMENTS
ALS QUOTE NO.:
COC SEQUENCE NUMBER (if any):

FOR LABORATORY USE ONLY

RELINQUISHED BY: Tristan Rodrigues
DATE/TIME: 20/12/21
RECEIVED BY:
DATE/TIME: 20/12/21 1750
RELINQUISHED BY:
RECEIVED BY:
DATE/TIME:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE ONLY	SAMPLE DETAILS (MATRIX)			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES				
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE	TOTAL BOTTLES	PFAS (28 analytes) LOR=	ISIS	Asbestos	VOL	HOLD
12	BUR_BH106_0.2	17/12/21	Soil			X	X	X	X	
13	-1.0						X			
14	-2.0						X		X	
15	-3.0						X			
16	-4.0					X	X		X	
17	-5.0						X			
18	DG2_20211217					X	X		X	
1	TG2_20211217					X	X		X	
19	BUR_BH107_0.2					X	X	X		
20	-1.0						X		X	
21	-2.0						#14			
22	-3.0					X	X		X	
	[illegible]						#14			
23	-5.6					#14	X		X	

Please Send to Eurofins

24	BUR_BH102_0.15	16/12/21	29	Trip Spike 24	13/12/21
25	Trip Blank 1	15/12/21	30	TSK 24	13/12/21
26	Trip Spike 23	13/12/21	31	EQS_20211217	17/12/21
27	TSK 23	13/12/21			
28	Trip Blank 2	15/12/21			

M·H

#853149

22/12/21

eurofins | Environment Testing

www.eurofins.com.au EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

Sample Receipt Advice

Company name:	ERM Sydney
Contact name:	Jessica Lawrence
Project name:	0577577-BURWOOD
Project ID:	Not provided
Turnaround time:	10 Day
Date/Time received	Dec 22, 2021 9:18 AM
Eurofins reference	853149

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
X	Split sample sent to requested external lab.
X	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

John Nguyen on phone : or by email: JohnNguyen@eurofins.com

Results will be delivered electronically via email to Jessica Lawrence - jessica.lawrence@erm.com.

Note: A copy of these results will also be delivered to the general ERM Sydney email address.

eurofins | Environment Testing

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
Unit F3, Building F
16 Mars Road
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Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

Company Name: ERM Sydney
Address: Level 15, 309 Kent St
Sydney
NSW 2000

Project Name: 0577577-BURWOOD

Order No.:
Report #: 853149
Phone: 02 8584 8888
Fax: 02 8584 8800

Received: Dec 22, 2021 9:18 AM
Due: Jan 7, 2022
Priority: 10 Day
Contact Name: Jessica Lawrence

Eurofins Analytical Services Manager : John Nguyen

Sample Detail						Volatile Organics	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	Suite B10B:TRH/BTEXN/PAH/OCP/OPP/PCB/M8
Melbourne Laboratory - NATA # 1261 Site # 1254									
Sydney Laboratory - NATA # 1261 Site # 18217						X	X		X
Brisbane Laboratory - NATA # 1261 Site # 20794								X	
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**				
1	TO3-20211217	Dec 17, 2021		Soil	S21-De58036	X	X	X	X
2	TO4-20211217	Dec 17, 2021		Soil	S21-De58037	X	X	X	X
3	TO2-20211217	Dec 17, 2021		Soil	S21-De58038	X	X	X	X
Test Counts						3	3	3	3

ERM Sydney
Level 15, 309 Kent St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: **Jessica Lawrence**

Report **853149-S**
Project name 0577577-BURWOOD
Received Date Dec 22, 2021

Client Sample ID			**TO3-20211217**	**TO4-20211217**	**TO2-20211217**
Sample Matrix			**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**S21-De58036**	**S21-De58037**	**S21-De58038**
Date Sampled			**Dec 17, 2021**	**Dec 17, 2021**	**Dec 17, 2021**
Test/Reference	LOR	Unit			
Total Recoverable Hydrocarbons					
TRH C6-C9	20	mg/kg	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100
BTEX					
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	99	82	84
Volatile Organics					
1.1-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.1-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.2-Dibromoethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.2-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.2-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.3-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5

Client Sample ID			TO3-20211217	TO4-20211217	TO2-20211217
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			S21-De58036	S21-De58037	S21-De58038
Date Sampled			Dec 17, 2021	Dec 17, 2021	Dec 17, 2021
Test/Reference	LOR	Unit			
Volatile Organics					
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
2-Butanone (MEK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	< 0.5	< 0.5
4-Chlorotoluene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Allyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Bromobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Bromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Bromodichloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Bromoform	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Bromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Carbon disulfide	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Chlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Chloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Chloroform	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Chloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Dibromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Dibromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Iodomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	< 0.5	< 0.5
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Methylene Chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Styrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Tetrachloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Trichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Vinyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3
Total MAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr.)	1	%	99	82	84
Toluene-d8 (surr.)	1	%	110	92	97
Polycyclic Aromatic Hydrocarbons					
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	0.7	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	1.0	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.3	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5

Client Sample ID			TO3-20211217	TO4-20211217	TO2-20211217
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			S21-De58036	S21-De58037	S21-De58038
Date Sampled			Dec 17, 2021	Dec 17, 2021	Dec 17, 2021
Test/Reference	LOR	Unit			
Polycyclic Aromatic Hydrocarbons					
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	0.6	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	0.7	< 0.5
Chrysene	0.5	mg/kg	< 0.5	0.6	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	1.0	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	0.6	< 0.5
Pyrene	0.5	mg/kg	< 0.5	1.1	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	5.1	< 0.5
2-Fluorobiphenyl (surr.)	1	%	120	88	97
p-Terphenyl-d14 (surr.)	1	%	106	66	80
Organochlorine Pesticides					
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	119	68	93
Tetrachloro-m-xylene (surr.)	1	%	123	87	97

Client Sample ID			TO3-20211217	TO4-20211217	TO2-20211217
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			S21-De58036	S21-De58037	S21-De58038
Date Sampled			Dec 17, 2021	Dec 17, 2021	Dec 17, 2021
Test/Reference	LOR	Unit			
Organophosphorus Pesticides					
Azinphos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Bolstar	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Chlorfenvinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Chlorpyrifos	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Coumaphos	2	mg/kg	< 2	< 2	< 2
Demeton-S	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Demeton-O	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Diazinon	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Dichlorvos	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Dimethoate	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Disulfoton	0.2	mg/kg	< 0.2	< 0.2	< 0.2
EPN	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Ethion	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Ethoprop	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Ethyl parathion	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Fenitrothion	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Fensulfothion	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Fenthion	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Malathion	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Merphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Methyl parathion	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Mevinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Monocrotophos	2	mg/kg	< 2	< 2	< 2
Naled	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Omethoate	2	mg/kg	< 2	< 2	< 2
Phorate	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Pirimiphos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Pyrazophos	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Ronnel	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Terbufos	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Tetrachlorvinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Tokuthion	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Trichloronate	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Triphenylphosphate (surr.)	1	%	104	60	82
Polychlorinated Biphenyls					
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	119	68	93
Tetrachloro-m-xylene (surr.)	1	%	123	87	97

Client Sample ID			TO3-20211217	TO4-20211217	TO2-20211217
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			S21-De58036	S21-De58037	S21-De58038
Date Sampled			Dec 17, 2021	Dec 17, 2021	Dec 17, 2021
Test/Reference	LOR	Unit			
Heavy Metals					
Arsenic	2	mg/kg	8.5	3.8	5.6
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	11	14	9.3
Copper	5	mg/kg	22	32	28
Lead	5	mg/kg	11	150	14
Mercury	0.1	mg/kg	< 0.1	0.2	< 0.1
Nickel	5	mg/kg	< 5	8.7	5.3
Zinc	5	mg/kg	15	200	27
% Moisture	1	%	11	22	8.6
Perfluoroalkyl carboxylic acids (PFCAs)					
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	< 5	< 5	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	< 5	< 5	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	< 5	< 5	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	< 5	< 5	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	< 5	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	< 5	< 5	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	< 5	< 5	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	< 5	< 5	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	< 5	< 5	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	< 5	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5	< 5	< 5
13C4-PFBA (surr.)	1	%	151	106	92
13C5-PFPeA (surr.)	1	%	130	92	76
13C5-PFHxA (surr.)	1	%	124	91	96
13C4-PFHpA (surr.)	1	%	130	89	86
13C8-PFOA (surr.)	1	%	122	87	82
13C5-PFNA (surr.)	1	%	124	92	90
13C6-PFDA (surr.)	1	%	128	96	89
13C2-PFUnDA (surr.)	1	%	116	83	71
13C2-PFDoDA (surr.)	1	%	152	94	84
13C2-PFTeDA (surr.)	1	%	113	88	93
Perfluoroalkyl sulfonamido substances					
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)[N11]	5	ug/kg	< 5	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)[N11]	5	ug/kg	< 5	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10	< 10	< 10
13C8-FOSA (surr.)	1	%	151	103	96
D3-N-MeFOSA (surr.)	1	%	110	86	84
D5-N-EtFOSA (surr.)	1	%	95	55	109
D7-N-MeFOSE (surr.)	1	%	119	86	121
D9-N-EtFOSE (surr.)	1	%	128	82	135
D5-N-EtFOSAA (surr.)	1	%	110	76	74
D3-N-MeFOSAA (surr.)	1	%	121	84	78

Client Sample ID			TO3-20211217	TO4-20211217	TO2-20211217
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			S21-De58036	S21-De58037	S21-De58038
Date Sampled			Dec 17, 2021	Dec 17, 2021	Dec 17, 2021
Test/Reference	LOR	Unit			
Perfluoroalkyl sulfonic acids (PFSAs)					
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	< 5	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	136	89	94
18O2-PFHxS (surr.)	1	%	125	85	89
13C8-PFOS (surr.)	1	%	122	88	95
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)[N11]	10	ug/kg	< 10	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	137	121	146
13C2-6:2 FTSA (surr.)	1	%	157	102	108
13C2-8:2 FTSA (surr.)	1	%	120	100	101
13C2-10:2 FTSA (surr.)	1	%	125	93	103
PFASs Summations					
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	< 5	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	< 10	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50	< 50	< 50

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Dec 30, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Dec 30, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Dec 30, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Dec 30, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons	Sydney	Dec 30, 2021	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Organochlorine Pesticides	Sydney	Dec 30, 2021	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Organophosphorus Pesticides	Sydney	Dec 30, 2021	14 Days
- Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS			
Polychlorinated Biphenyls	Sydney	Dec 30, 2021	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Metals M8	Sydney	Dec 30, 2021	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Volatile Organics	Sydney	Dec 30, 2021	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices			
% Moisture	Sydney	Dec 24, 2021	14 Days
- Method: LTM-GEN-7080 Moisture			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Brisbane	Jan 05, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Brisbane	Jan 05, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Brisbane	Jan 05, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Brisbane	Jan 05, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

eurofins | Environment Testing

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

Company Name: ERM Sydney
Address: Level 15, 309 Kent St
Sydney
NSW 2000

Project Name: 0577577-BURWOOD

Order No.:
Report #: 853149
Phone: 02 8584 8888
Fax: 02 8584 8800

Received: Dec 22, 2021 9:18 AM
Due: Jan 7, 2022
Priority: 10 Day
Contact Name: Jessica Lawrence

Eurofins Analytical Services Manager : John Nguyen

Sample Detail						Volatile Organics	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	Suite B10B:TRH/BTEXN/PAH/OCP/OPP/PCB/M8
Melbourne Laboratory - NATA # 1261 Site # 1254									
Sydney Laboratory - NATA # 1261 Site # 18217						X	X		X
Brisbane Laboratory - NATA # 1261 Site # 20794								X	
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**				
1	TO3-20211217	Dec 17, 2021		Soil	S21-De58036	X	X	X	X
2	TO4-20211217	Dec 17, 2021		Soil	S21-De58037	X	X	X	X
3	TO2-20211217	Dec 17, 2021		Soil	S21-De58038	X	X	X	X
Test Counts						3	3	3	3

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
µg/L: micrograms per litre
ppm: parts per million
ppb: parts per billion
%: Percentage
org/100mL: Organisms per 100 millilitres
NTU: Nephelometric Turbidity Units
MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.4
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

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QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
1.1.1-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.1.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dibromoethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.3-Trichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.4-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.3.5-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
2-Butanone (MEK)	mg/kg	< 0.5			0.5	Pass	
2-Propanone (Acetone)	mg/kg	< 0.5			0.5	Pass	
4-Chlorotoluene	mg/kg	< 0.5			0.5	Pass	
4-Methyl-2-pentanone (MIBK)	mg/kg	< 0.5			0.5	Pass	
Allyl chloride	mg/kg	< 0.5			0.5	Pass	
Bromobenzene	mg/kg	< 0.5			0.5	Pass	
Bromochloromethane	mg/kg	< 0.5			0.5	Pass	
Bromodichloromethane	mg/kg	< 0.5			0.5	Pass	
Bromoform	mg/kg	< 0.5			0.5	Pass	
Bromomethane	mg/kg	< 0.5			0.5	Pass	
Carbon disulfide	mg/kg	< 0.5			0.5	Pass	
Carbon Tetrachloride	mg/kg	< 0.5			0.5	Pass	
Chlorobenzene	mg/kg	< 0.5			0.5	Pass	
Chloroethane	mg/kg	< 0.5			0.5	Pass	
Chloroform	mg/kg	< 0.5			0.5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chloromethane	mg/kg	< 0.5			0.5	Pass	
cis-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
cis-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Dibromochloromethane	mg/kg	< 0.5			0.5	Pass	
Dibromomethane	mg/kg	< 0.5			0.5	Pass	
Dichlorodifluoromethane	mg/kg	< 0.5			0.5	Pass	
Iodomethane	mg/kg	< 0.5			0.5	Pass	
Isopropyl benzene (Cumene)	mg/kg	< 0.5			0.5	Pass	
Methylene Chloride	mg/kg	< 0.5			0.5	Pass	
Styrene	mg/kg	< 0.5			0.5	Pass	
Tetrachloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Trichloroethene	mg/kg	< 0.5			0.5	Pass	
Trichlorofluoromethane	mg/kg	< 0.5			0.5	Pass	
Vinyl chloride	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-HCH	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-HCH	mg/kg	< 0.05			0.05	Pass	
d-HCH	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-HCH (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.05			0.05	Pass	
Toxaphene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organophosphorus Pesticides							
Azinphos-methyl	mg/kg	< 0.2			0.2	Pass	
Bolstar	mg/kg	< 0.2			0.2	Pass	
Chlorfenvinphos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos-methyl	mg/kg	< 0.2			0.2	Pass	
Coumaphos	mg/kg	< 2			2	Pass	
Demeton-S	mg/kg	< 0.2			0.2	Pass	
Demeton-O	mg/kg	< 0.2			0.2	Pass	
Diazinon	mg/kg	< 0.2			0.2	Pass	
Dichlorvos	mg/kg	< 0.2			0.2	Pass	
Dimethoate	mg/kg	< 0.2			0.2	Pass	
Disulfoton	mg/kg	< 0.2			0.2	Pass	
EPN	mg/kg	< 0.2			0.2	Pass	
Ethion	mg/kg	< 0.2			0.2	Pass	
Ethoprop	mg/kg	< 0.2			0.2	Pass	
Ethyl parathion	mg/kg	< 0.2			0.2	Pass	
Fenitrothion	mg/kg	< 0.2			0.2	Pass	
Fensulfothion	mg/kg	< 0.2			0.2	Pass	
Fenthion	mg/kg	< 0.2			0.2	Pass	
Malathion	mg/kg	< 0.2			0.2	Pass	
Merphos	mg/kg	< 0.2			0.2	Pass	
Methyl parathion	mg/kg	< 0.2			0.2	Pass	
Mevinphos	mg/kg	< 0.2			0.2	Pass	
Monocrotophos	mg/kg	< 2			2	Pass	
Naled	mg/kg	< 0.2			0.2	Pass	
Omethoate	mg/kg	< 2			2	Pass	
Phorate	mg/kg	< 0.2			0.2	Pass	
Pirimiphos-methyl	mg/kg	< 0.2			0.2	Pass	
Pyrazophos	mg/kg	< 0.2			0.2	Pass	
Ronnel	mg/kg	< 0.2			0.2	Pass	
Terbufos	mg/kg	< 0.2			0.2	Pass	
Tetrachlorvinphos	mg/kg	< 0.2			0.2	Pass	
Tokuthion	mg/kg	< 0.2			0.2	Pass	
Trichloronate	mg/kg	< 0.2			0.2	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.1			0.1	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	Pass	
Aroclor-1232	mg/kg	< 0.1			0.1	Pass	
Aroclor-1242	mg/kg	< 0.1			0.1	Pass	
Aroclor-1248	mg/kg	< 0.1			0.1	Pass	
Aroclor-1254	mg/kg	< 0.1			0.1	Pass	
Aroclor-1260	mg/kg	< 0.1			0.1	Pass	
Total PCB*	mg/kg	< 0.1			0.1	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/kg	< 5			5	Pass	
Perfluoropentanoic acid (PFPeA)	ug/kg	< 5			5	Pass	
Perfluorohexanoic acid (PFHxA)	ug/kg	< 5			5	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/kg	< 5			5	Pass	
Perfluorooctanoic acid (PFOA)	ug/kg	< 5			5	Pass	
Perfluorononanoic acid (PFNA)	ug/kg	< 5			5	Pass	
Perfluorodecanoic acid (PFDA)	ug/kg	< 5			5	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/kg	< 5			5	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/kg	< 5			5	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/kg	< 5			5	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/kg	< 5			5	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/kg	< 5			5	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/kg	< 5			5	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/kg	< 5			5	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	ug/kg	< 5			5	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	ug/kg	< 5			5	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	< 10			10	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	< 10			10	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	ug/kg	< 5			5	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/kg	< 5			5	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/kg	< 5			5	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/kg	< 5			5	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	< 5			5	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/kg	< 5			5	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/kg	< 5			5	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/kg	< 5			5	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	ug/kg	< 10			10	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	83			70-130	Pass	
TRH C10-C14	%	91			70-130	Pass	
Naphthalene	%	73			70-130	Pass	
TRH C6-C10	%	78			70-130	Pass	
TRH >C10-C16	%	91			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	112			70-130	Pass	
Toluene	%	103			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Ethylbenzene	%	95			70-130	Pass	
m&p-Xylenes	%	124			70-130	Pass	
o-Xylene	%	117			70-130	Pass	
Xylenes - Total*	%	122			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethene	%	100			70-130	Pass	
1.1.1-Trichloroethane	%	73			70-130	Pass	
1.2-Dichlorobenzene	%	106			70-130	Pass	
1.2-Dichloroethane	%	99			70-130	Pass	
Trichloroethene	%	91			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	87			70-130	Pass	
Acenaphthylene	%	90			70-130	Pass	
Anthracene	%	97			70-130	Pass	
Benz(a)anthracene	%	82			70-130	Pass	
Benzo(a)pyrene	%	87			70-130	Pass	
Benzo(b&j)fluoranthene	%	82			70-130	Pass	
Benzo(g.h.i)perylene	%	82			70-130	Pass	
Benzo(k)fluoranthene	%	102			70-130	Pass	
Chrysene	%	86			70-130	Pass	
Dibenz(a.h)anthracene	%	88			70-130	Pass	
Fluoranthene	%	88			70-130	Pass	
Fluorene	%	92			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	90			70-130	Pass	
Naphthalene	%	88			70-130	Pass	
Phenanthrene	%	83			70-130	Pass	
Pyrene	%	89			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	87			70-130	Pass	
4.4'-DDD	%	77			70-130	Pass	
4.4'-DDE	%	90			70-130	Pass	
4.4'-DDT	%	80			70-130	Pass	
a-HCH	%	81			70-130	Pass	
Aldrin	%	85			70-130	Pass	
b-HCH	%	83			70-130	Pass	
d-HCH	%	82			70-130	Pass	
Dieldrin	%	88			70-130	Pass	
Endosulfan I	%	87			70-130	Pass	
Endosulfan II	%	82			70-130	Pass	
Endosulfan sulphate	%	89			70-130	Pass	
Endrin	%	93			70-130	Pass	
Endrin aldehyde	%	77			70-130	Pass	
Endrin ketone	%	85			70-130	Pass	
g-HCH (Lindane)	%	88			70-130	Pass	
Heptachlor	%	87			70-130	Pass	
Heptachlor epoxide	%	85			70-130	Pass	
Hexachlorobenzene	%	86			70-130	Pass	
Methoxychlor	%	87			70-130	Pass	
LCS - % Recovery							
Organophosphorus Pesticides							
Diazinon	%	99			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Dimethoate	%	79			70-130	Pass	
Ethion	%	96			70-130	Pass	
Fenitrothion	%	84			70-130	Pass	
Methyl parathion	%	97			70-130	Pass	
Mevinphos	%	79			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1016	%	73			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	93			80-120	Pass	
Cadmium	%	100			80-120	Pass	
Chromium	%	107			80-120	Pass	
Copper	%	111			80-120	Pass	
Lead	%	110			80-120	Pass	
Mercury	%	108			80-120	Pass	
Nickel	%	110			80-120	Pass	
Zinc	%	107			80-120	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	94			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	96			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	85			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	83			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	88			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	97			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	83			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	93			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	110			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	112			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	113			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	84			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	91			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	111			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	%	103			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	%	83			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	102			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	99			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	73			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	87			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	86			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	73			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	84			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	85			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	96			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	70			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	94			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	%	100			50-150	Pass	

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)			%	107			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)			%	92			50-150	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
Naphthalene	S21-De56972	NCP	%	77			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	N21-De38148	NCP	%	85			70-130	Pass	
Toluene	N21-De38148	NCP	%	86			70-130	Pass	
Ethylbenzene	N21-De38148	NCP	%	81			70-130	Pass	
m&p-Xylenes	N21-De38148	NCP	%	78			70-130	Pass	
o-Xylene	N21-De38148	NCP	%	81			70-130	Pass	
Xylenes - Total*	N21-De38148	NCP	%	79			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S21-De56860	NCP	%	99			70-130	Pass	
Acenaphthylene	S21-De56860	NCP	%	113			70-130	Pass	
Anthracene	S21-De56860	NCP	%	104			70-130	Pass	
Benz(a)anthracene	S21-De47752	NCP	%	75			70-130	Pass	
Benzo(a)pyrene	S21-De56860	NCP	%	98			70-130	Pass	
Benzo(b&j)fluoranthene	S21-De56860	NCP	%	94			70-130	Pass	
Benzo(g.h.i)perylene	S21-De56860	NCP	%	100			70-130	Pass	
Benzo(k)fluoranthene	S21-De56860	NCP	%	111			70-130	Pass	
Chrysene	S21-De56860	NCP	%	75			70-130	Pass	
Dibenz(a.h)anthracene	S21-De56860	NCP	%	103			70-130	Pass	
Fluoranthene	S21-De56860	NCP	%	98			70-130	Pass	
Fluorene	S21-De56860	NCP	%	106			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S21-De56860	NCP	%	106			70-130	Pass	
Naphthalene	S21-De56860	NCP	%	101			70-130	Pass	
Phenanthrene	S21-De56860	NCP	%	94			70-130	Pass	
Pyrene	S21-De56860	NCP	%	98			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S21-De49180	NCP	%	81			70-130	Pass	
4.4'-DDD	S21-De49180	NCP	%	79			70-130	Pass	
4.4'-DDE	S21-De49180	NCP	%	86			70-130	Pass	
4.4'-DDT	S21-De49180	NCP	%	73			70-130	Pass	
a-HCH	S21-De49180	NCP	%	76			70-130	Pass	
Aldrin	S21-De49180	NCP	%	81			70-130	Pass	
b-HCH	S21-De49180	NCP	%	80			70-130	Pass	
d-HCH	S21-De49180	NCP	%	77			70-130	Pass	
Dieldrin	S21-De49180	NCP	%	83			70-130	Pass	
Endosulfan I	S21-De49180	NCP	%	80			70-130	Pass	
Endosulfan II	S21-De49180	NCP	%	73			70-130	Pass	
Endosulfan sulphate	S21-De49180	NCP	%	82			70-130	Pass	
Endrin	S21-De49180	NCP	%	79			70-130	Pass	
Endrin aldehyde	S21-De49180	NCP	%	75			70-130	Pass	
Endrin ketone	S21-De49180	NCP	%	82			70-130	Pass	
g-HCH (Lindane)	S21-De49180	NCP	%	81			70-130	Pass	
Heptachlor	S21-De49180	NCP	%	82			70-130	Pass	
Heptachlor epoxide	S21-De49180	NCP	%	80			70-130	Pass	
Hexachlorobenzene	S21-De49180	NCP	%	80			70-130	Pass	
Methoxychlor	S21-De49180	NCP	%	78			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Organophosphorus Pesticides				Result 1					
Diazinon	S21-De49180	NCP	%	87			70-130	Pass	
Dimethoate	S21-De49180	NCP	%	84			70-130	Pass	
Ethion	S21-De49180	NCP	%	91			70-130	Pass	
Fenitrothion	S21-De49180	NCP	%	79			70-130	Pass	
Methyl parathion	S21-De49180	NCP	%	90			70-130	Pass	
Mevinphos	S21-De49180	NCP	%	81			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1016	S21-De49180	NCP	%	74			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S21-De58108	NCP	%	79			75-125	Pass	
Cadmium	S21-De58108	NCP	%	86			75-125	Pass	
Chromium	S21-De58108	NCP	%	92			75-125	Pass	
Copper	S21-De58108	NCP	%	93			75-125	Pass	
Lead	S21-De58108	NCP	%	96			75-125	Pass	
Mercury	S21-De58108	NCP	%	91			75-125	Pass	
Nickel	S21-De58108	NCP	%	93			75-125	Pass	
Zinc	S21-De58108	NCP	%	93			75-125	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	L21-De56360	NCP	%	102			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	L21-De56360	NCP	%	96			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	L21-De56360	NCP	%	87			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	L21-De56360	NCP	%	94			50-150	Pass	
Perfluorooctanoic acid (PFOA)	L21-De56360	NCP	%	89			50-150	Pass	
Perfluorononanoic acid (PFNA)	L21-De56360	NCP	%	94			50-150	Pass	
Perfluorodecanoic acid (PFDA)	L21-De56360	NCP	%	90			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	L21-De56360	NCP	%	94			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	L21-De56360	NCP	%	116			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	L21-De56360	NCP	%	71			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	L21-De56360	NCP	%	122			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	L21-De56360	NCP	%	82			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	L21-De56360	NCP	%	90			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	L21-De56360	NCP	%	119			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	L21-De56360	NCP	%	95			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	L21-De56360	NCP	%	80			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	L21-De56360	NCP	%	104			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	L21-De56360	NCP	%	108			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorobutanesulfonic acid (PFBS)	L21-De56360	NCP	%	83			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	L21-De56360	NCP	%	94			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	L21-De56360	NCP	%	120			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	L21-De56360	NCP	%	95			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	L21-De56360	NCP	%	83			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	L21-De56360	NCP	%	81			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	L21-De56360	NCP	%	98			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	L21-De56360	NCP	%	58			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	L21-De56360	NCP	%	85			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	L21-De56360	NCP	%	79			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	L21-De56360	NCP	%	120			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	L21-De56360	NCP	%	86			50-150	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C10-C14	S21-De58037	CP	%	77			70-130	Pass	
TRH >C10-C16	S21-De58037	CP	%	78			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	S21-De52738	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S21-De58036	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S21-De58036	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S21-De58036	CP	mg/kg	< 50	< 50	<1	30%	Pass	
Naphthalene	S21-De52738	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S21-De52738	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S21-De58036	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S21-De58036	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S21-De58036	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S21-De52738	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S21-De52738	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S21-De52738	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S21-De52738	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S21-De52738	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S21-De52738	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	

Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1-Dichloroethene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1-Trichloroethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2-Trichloroethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichlorobenzene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloroethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloropropane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3-Trichloropropane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trimethylbenzene	S21-De51655	NCP	mg/kg	0.9	1.6	50	30%	Fail	Q15
1.3-Dichlorobenzene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichloropropane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3.5-Trimethylbenzene	S21-De51655	NCP	mg/kg	< 0.5	0.6	63	30%	Fail	Q15
1.4-Dichlorobenzene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Butanone (MEK)	S21-De51655	NCP	mg/kg	0.5	0.7	26	30%	Pass	
2-Propanone (Acetone)	S21-De51655	NCP	mg/kg	2.9	3.3	13	30%	Pass	
4-Chlorotoluene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Allyl chloride	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromobenzene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromochloromethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromodichloromethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromoform	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromomethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon disulfide	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon Tetrachloride	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chlorobenzene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroform	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloromethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.2-Dichloroethene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.3-Dichloropropene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromochloromethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromomethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorodifluoromethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Iodomethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Isopropyl benzene (Cumene)	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Methylene Chloride	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Styrene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Tetrachloroethene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.2-Dichloroethene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.3-Dichloropropene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichloroethene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichlorofluoromethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Vinyl chloride	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S21-De58631	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S21-De58631	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S21-De58631	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S21-De58631	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S21-De58631	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Benzo(b&j)fluoranthene	S21-De58631	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S21-De58631	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S21-De58631	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S21-De58631	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S21-De58631	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S21-De58631	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S21-De58631	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S21-De58631	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S21-De58631	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S21-De58631	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S21-De58631	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S21-De58631	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S21-De58631	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S21-De58631	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S21-De58631	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	S21-De58631	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S21-De58631	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	S21-De58631	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	S21-De58631	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S21-De58631	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S21-De58631	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S21-De58631	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S21-De58631	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S21-De58631	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S21-De58631	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S21-De58631	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	S21-De58631	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S21-De58631	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S21-De58631	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S21-De58631	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S21-De58631	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toxaphene	S21-De58631	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Azinphos-methyl	S21-De58631	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Bolstar	S21-De58631	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorfenvinphos	S21-De58631	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos	S21-De58631	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos-methyl	S21-De58631	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Coumaphos	S21-De58631	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Demeton-S	S21-De58631	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Demeton-O	S21-De58631	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Diazinon	S21-De58631	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dichlorvos	S21-De58631	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dimethoate	S21-De58631	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Disulfoton	S21-De58631	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
EPN	S21-De58631	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethion	S21-De58631	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethoprop	S21-De58631	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethyl parathion	S21-De58631	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenitrothion	S21-De58631	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fensulfothion	S21-De58631	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	

Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Fenthion	S21-De58631	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Malathion	S21-De58631	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Merphos	S21-De58631	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Methyl parathion	S21-De58631	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Mevinphos	S21-De58631	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Monocrotophos	S21-De58631	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Naled	S21-De58631	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Omethoate	S21-De58631	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Phorate	S21-De58631	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pirimiphos-methyl	S21-De58631	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pyrazophos	S21-De58631	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ronnel	S21-De58631	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Terbufos	S21-De58631	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tetrachlorvinphos	S21-De58631	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tokuthion	S21-De58631	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Trichloronate	S21-De58631	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	S21-De58631	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1221	S21-De58631	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	S21-De58631	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1242	S21-De58631	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1248	S21-De58631	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1254	S21-De58631	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1260	S21-De58631	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Total PCB*	S21-De58631	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-De58036	CP	%	11	12	8.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-De58038	CP	mg/kg	5.6	8.0	36	30%	Fail	Q15
Cadmium	S21-De58038	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S21-De58038	CP	mg/kg	9.3	12	21	30%	Pass	
Copper	S21-De58038	CP	mg/kg	28	39	32	30%	Fail	Q15
Lead	S21-De58038	CP	mg/kg	14	18	27	30%	Pass	
Mercury	S21-De58038	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S21-De58038	CP	mg/kg	5.3	7.1	29	30%	Pass	
Zinc	S21-De58038	CP	mg/kg	27	37	29	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	S21-De58038	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	S21-De58038	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	S21-De58038	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	S21-De58038	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	S21-De58038	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	S21-De58038	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	S21-De58038	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	S21-De58038	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	S21-De58038	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	S21-De58038	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	S21-De58038	CP	ug/kg	< 5	< 5	<1	30%	Pass	

Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	S21-De58038	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S21-De58038	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S21-De58038	CP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	S21-De58038	CP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	S21-De58038	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S21-De58038	CP	ug/kg	< 10	< 10	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S21-De58038	CP	ug/kg	< 10	< 10	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	S21-De58038	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	S21-De58038	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	S21-De58038	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	S21-De58038	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	S21-De58038	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S21-De58038	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	S21-De58038	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	S21-De58038	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S21-De58038	CP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	S21-De58038	CP	ug/kg	< 10	< 10	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S21-De58038	CP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S21-De58038	CP	ug/kg	< 5	< 5	<1	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised by:

Ursula Long	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
John Nguyen	Senior Analyst-Metal (NSW)
Roopesh Rangarajan	Senior Analyst-Volatile (NSW)
Sarah McCallion	Senior Analyst-PFAS (QLD)



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

Eurofins shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

CHAIN OF CUSTODY

ALS Laboratory: please tick →

☐ Sydney, 277 Woodpark Rd Smithfield NSW 2164 Ph: 02 8784 8555 E:samples.sydney@alsenviro.com
☐ Brisbane, 32 Shand St, Stafford QLD 4053 Ph:07 3243 7222 E:samples.brisbane@alsenviro.com
☐ Melbourne, 2-4 Westall Rd Springvale VIC 3171 Ph:03 8549 9600 E: samples.melbourne@alsenviro.com
☐ Newcastle, 5 Rosegum Rd, Warabrook NSW 2304 Ph:02 4958 5433 E:samples.newcastle@alsenviro.com
☐ Townsville, 14-15 Desma Ct, Bohle QLD 4818 Ph:07 4796 0600 E: townsville@alsenviro.com
☐ Adelaide, 2-3 Burma Rd, Pooraka SA 5095 Ph: 08 8359 0890 E:adelaide@alsenviro.com

CLIENT:	ERM	TURNAROUND REQUIREMENTS: (Standard TAT may be longer for some tests e.g., Ultra Trace Organics)	☐ Standard TAT (List due date):
OFFICE:	Sydney		☐ Non Standard or urgent TAT (List due date):
PROJECT:	0577577 - Burwood	ALS QUOTE NO.:	
ORDER NUMBER:			
PROJECT MANAGER:	Jessica Lawrence	CONTACT PH: 0404935554	
SAMPLER:	Tristan Rodrigues	SAMPLER MOBILE: 0417187687	
COC emailed to ALS? YES		EDD FORMAT (or default):	
Email Reports to: jessica.lawrence@erm.com, tristan.rodrigues@erm.com			
Email Invoice to: jessica.lawrence@erm.com			

COC SEQUENCE NUMBER (Circle)

COC: 1 2 3 4 5 6 7

OF: 1 2 3 4 5 6 7

FOR LABORATORY USE ONLY (Circle)

Custody Seal Intact? Yes No N/A

Free ice / frozen ice bricks present upon receipt? Yes No N/A

Random Sample Temperature on Receipt: -1.3 °C

Other comment:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Tristan Rodrigues	Scott Mc		
DATE/TIME: 22/12/21	DATE/TIME: 22/12/21 16:10	DATE/TIME:	DATE/TIME:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE ONLY	SAMPLE DETAILS MATRIX: Solid(S) Water(W)			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required).							Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PREservative (refer to codes below)	TOTAL BOTTLES	PFAS (28 analytes) LOR= 5ug/kg	S16	Asbestos	VOC			HOLD	Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc. Please use the lower hexavalent chromium LOR.
1	BUR_BH109_0.2	20/12/21	Soil			X	X	X	X				
2	-0.5						X						
3	-1.0						X		X			X	
4	-3.0					X	X						
5	BUR_BH111_0.2					X	X		X				
6	-0.5					X	X						
7	DO5-20211220					X	X						
—	TO5-20211220					X	X						Please Send to ALS
8	-2.0						X		X				
9	-5.0					X	X						
10	BUR_BH110_0.2					X	X		X				
11	-0.5						X						
12	-1.0						X		X				
13	-5.0					X	X						

Attached By PO / Internal Sheet:
WO No.:
Connote / Courier:
Organised By / Date:
Relinquished By / Date:
Subcon / Forward Lab / Split WO
Lab / Analysis: TO5 TO7 TO8

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide/Cd Preserved; S = Sodium Hydroxide Preserved Plastic; AG = Amber Glass Unpreserved; AP - Airfreight Unpreserved Plastic
V = VOA Vial HCl Preserved; VB = VOA Vial Sodium Bisulphate Preserved; VS = VOA Vial Sulfuric Preserved; AV = Airfreight Unpreserved Vial SG = Sulfuric Preserved Amber Glass; H = HCl preserved Plastic; HS = HCl preserved Speciation bottle; SP = Sulfuric Preserved Plastic; F = For
Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; ASS = Plastic Bag for Acid Sulphate Soils; B = Unpreserved Bag.

A.S Alecco 28/12/21 3:44 PM 853323

Environmental Division
Sydney
Work Order Reference
ES2146990

Telephone : +61-2-8784 8555

CHAIN OF CUSTODY

ALS Laboratory: please tick →

☐ Sydney: 277 Woodpark Rd, Smithfield NSW 2164 Ph: 02 8784 8555 E: samples.sydney@alsenviro.com
☐ Brisbane: 32 Shand St, Stafford QLD 4053 Ph: 07 3243 7222 E: samples.brisbane@alsenviro.com
☐ Melbourne: 2-4 Westall Rd, Springvale VIC 3171 Ph: 03 8549 9600 E: samples.melbourne@alsenviro.com
☐ Newcastle: 5 Rosegum Rd, Warabrook NSW 2304 Ph: 02 4958 9630 E: samples.newcastle@alsenviro.com
☐ Townsville: 14-15 Desma Ct, Bohle QLD 4818 Ph: 07 4796 0600 E: samples.townsville@alsenviro.com
☐ Adelaide: 2-1 Burma Rd, Pooraka SA 5095 Ph: 08 8359 0890 E: adelaide@alsenviro.com

CLIENT:	ERM	TURNAROUND REQUIREMENTS: (Standard TAT may be longer for some tests e.g. Ultra Trace Organics)	☐ Standard TAT (List due date): ☐ Non Standard or urgent TAT (List due date):
OFFICE:	Sydney		
PROJECT:	0577577 - Burwood	ALS QUOTE NO.:	
ORDER NUMBER:			
PROJECT MANAGER:	Jessica Lawrence	CONTACT PH: 0404935554	
SAMPLER:	Tristan Rodrigues	SAMPLER MOBILE: 0417187687	
COC emailed to ALS? YES		EDD FORMAT (or default):	
Email Reports to: jessica.lawrence@erm.com, tristan.rodrigues@erm.com			
Email Invoice to: jessica.lawrence@erm.com			

COC SEQUENCE NUMBER (Circle)
COC: 1 2 3 4 5 6 7
OF: 1 2 3 4 5 6 7

FOR LABORATORY USE ONLY (Circle)
Custody seal Intact? Yes No N/A
Free ice / frozen ice bricks present upon receipt? Yes No N/A
Random Sample Temperature on Receipt: °C
Other comment: -1 -3

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Tristan Rodrigues	SCHENKER		
DATE/TIME: 22/12/21	DATE/TIME: 22/12/21 1410	DATE/TIME:	DATE/TIME:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE ONLY	SAMPLE DETAILS MATRIX: Solid(S) Water(W)			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required).								Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL BOTTLES	PFAS (28 analytes) LOR= 5ug/kg	S16	Asbestos	VOC	8 Metals	BTEX xN	TRH	HOLD	Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc. Please use the lower hexavalent chromium LOR.
14	BUR_BH113_0.2	20/12/21	Soil			X	X	X	X					
15	-1.0						X							
16	-2.0						X		X					
17	-5.0					X	X							
18	DOG_20211220						X		X					
—	TOG_20211220						X		X					Please Send to Eurofins
19	BUR_BH114_0.2					X	X	X						
20	-0.5						X		X					
21	-5.0						X							
22	-10.0						X		X					
23	-15.0					X	X							
24	ROW_20211220	20/12/21	Water			X				X	X	X		
25	ROS_20211221	21/12/21	Water			X				X	X	X		
26	TS/TB <3		Soil								X	X		

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide/Cd Preserved; S = Sodium Hydroxide Preserved Plastic; AG = Amber Glass Unpreserved; AP = Airfreight Unpreserved Plastic
V = VOA Vial HCl Preserved; VB = VOA Vial Sodium Bisulphate Preserved; VS = VOA Vial Sulfuric Preserved; AV = Airfreight Unpreserved Vial SG = Sulfuric Preserved Amber Glass; H = HCl preserved Plastic; HS = HCl preserved Speciation bottle; SP = Sulfuric Preserved Plastic; F = Formaldehyde Preserved Glass;
Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; ASS = Plastic Bag for Acid Sulphate Soils; B = Unpreserved Bag

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CHAIN OF CUSTODY

ALS Laboratory: please tick →

☐ Sydney: 277 Woodpark Rd, Smithfield NSW 2164 Ph:02 8784 8555 E:samples.sydney@alsenviro.com
☐ Brisbane: 32 Shand St, Stafford QLD 4053 Ph:07 3243 7222 E:samples.brisbane@alsenviro.com
☐ Melbourne: 2-4 Westall Rd, Springvale VIC 3171 Ph:03 8549 9600 E: samples.melbourne@alsenviro.com
☐ Newcastle: 5 Rosegum Rd, Warabrook NSW 2304 Ph:02 4968 9433 E:samples.newcastle@alsenviro.com
☐ Townsville: 14-15 Desma Ct, Bohle QLD 4818 Ph:07 4796 0600 E:townsville@alsenviro.com
☐ Adelaide: 21 Burma Rd, Pooraka SA 5095 Ph:08 8359 0890 E:adelaide@alsenviro.com

CLIENT:	ERM	TURNAROUND REQUIREMENTS : (Standard TAT may be longer for some tests e.g. Ultra Trace Organics)	☐ Standard TAT (List due date): ☐ Non Standard or urgent TAT (List due date):
OFFICE:	Sydney		
PROJECT:	0577577 - Burwood	ALS QUOTE NO.:	
ORDER NUMBER:			COC SEQUENCE NUMBER (Circle) COC: 1 2 3 4 5 6 7 OF: 1 2 3 4 5 6 7
PROJECT MANAGER:	Jessica Lawrence	CONTACT PH: 0404935554	
SAMPLER:	Tristan Rodrigues	SAMPLER MOBILE: 0417187687	
COC emailed to ALS? YES		EDD FORMAT (or default):	
Email Reports to: jessica.lawrence@erm.com, tristan.rodrigues@erm.com			
Email Invoice to: jessica.lawrence@erm.com			

FOR LABORATORY USE ONLY (Circle)
Custody Seal Intact? Yes No N/A
Free ice / frozen ice bricks present upon receipt? Yes No N/A
Random Sample Temperature on Receipt: °C
Other comment: -1.3

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Tristan Rodrigues	SOFIA DO		
DATE/TIME: 22/12/21	DATE/TIME: 22/12/21 14:10	DATE/TIME:	DATE/TIME:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE ONLY	SAMPLE DETAILS MATRIX: Solid(S) Water(W)			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required).								Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL BOTTLES	PFAS (28 analytes) LOR= 5ug/kg	S16	Asbestos	VOC				HOLD	Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc. Please use the lower hexavalent chromium LOR.
27	BUR_BH15_0.2	21/12/21	Soil			✓	✓	✓	✓					
28	-0.5						✓							
29	-1.0						✓		✓					
30	-5.0						✓							
31	-10.0						✓		✓					
32	-15.0					✓	✓							
33	BUR_BH117_0.2					✓	✓	✓	✓					
34	-1.0						✓							
35	-3.0					✓	✓							
36	DUP_20211221					✓	✓	✓	✓					
—	TRIP_20211221					✓	✓	✓	✓					Please Send to Envirolab
37	BUR_BH125_0.2					✓	✓	✓						
38	-1.0						✓		✓					
39	-5.0					✓	✓							

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide/Cd Preserved; S = Sodium Hydroxide Preserved Plastic; AG = Amber Glass Unpreserved; AP = Airfreight Unpreserved Plastic
V = VOA Vial HCl Preserved; VB = VOA Vial Sodium Bisulphate Preserved; VS = VOA Vial Sulfuric Preserved; AV = Airfreight Unpreserved Vial SG = Sulfuric Preserved Amber Glass; H = HCl preserved Plastic; HS = HCl preserved Speciation bottle; SP = Sulfuric Preserved Plastic; F = Formaldehyde Preserved Glass;
Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; ASS = Plastic Bag for Acid Sulphate Soils; B = Unpreserved Bag.

A.S Alex B 23/12/21 3:44 PM 853323

CHAIN OF CUSTODY

ALS Laboratory: please tick →

Sydney: 277 Woodpark Rd, Smithfield NSW 2164 Ph: 02 8784 8555 E: samples.sydney@alsenviro.com

Newcastle: 5 Rosegum Rd, Warabrook NSW 2304 Ph: 02 4968 9433 E: samples.newcastle@alsenviro.com

Brisbane: 32 Shand St, Stafford QLD 4053 Ph: 07 3243 7222 E: samples.brisbane@alsenviro.com

Townsville: 14-15 Desma Ct, Bohle QLD 4818 Ph: 07 4796 0600 E: townsville.environmental@alsenviro.com

Melbourne: 2-4 Westall Rd, Springvale VIC 3171 Ph: 03 8549 9600 E: samples.melbourne@alsenviro.com

Adelaide: 2-4 Burma Rd, Pooraka SA 5095 Ph: 08 8359 0890 E: samples@alsenviro.com

CLIENT:	ERM	TURNAROUND REQUIREMENTS : (Standard TAT may be longer for some tests e.g., Ultra Trace Organics)	☐ Standard TAT (List due date): ☐ Non Standard or urgent TAT (List due date):
OFFICE:	Sydney		
PROJECT:	0577577 - Burwood	ALS QUOTE NO.:	
ORDER NUMBER:			
PROJECT MANAGER:	Jessica Lawrence	CONTACT PH: 0404935554	
SAMPLER:	Tristan Rodrigues	SAMPLER MOBILE: 0417187687	
COC emailed to ALS?	YES	EDD FORMAT (or default):	
Email Reports to:	jessica.lawrence@erm.com, tristan.rodrigues@erm.com		
Email Invoice to:	jessica.lawrence@erm.com		

COC SEQUENCE NUMBER (Circle)

COC: 1 2 3 4 5 6 7

OF: 1 2 3 4 5 6 7

FOR LABORATORY USE ONLY (Circle)

Custody Seal Intact? Yes No N/A

Free ice / frozen ice bricks present upon receipt? Yes No N/A

Random Sample Temperature on Receipt: -1.3 °C

Other comment:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Tristan Rodrigues	Scott Allo ALS		
DATE/TIME: 22/12/21	DATE/TIME: 22/12/21 1410	DATE/TIME:	DATE/TIME:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE ONLY	SAMPLE DETAILS MATRIX: Solid(S) Water(W)			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required).								Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL BOTTLES	PFAS (28 analytes) LOR= 5ug/kg	S16	Asbestos	VOC				HOLD	Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc. Please use the lower hexavalent chromium LOR.
40	BUR_BH101_0.1	21/12/21	Soil			Y	Y	Y	Y					
41	-0.5													
42	-2.0								Y					
43	BUR_BH112_0.2					Y	Y	Y						
44	-0.5						X		X					
45	-2.0													
46	-5.0					X	X		X					
47	BUR_BH116_0.2					X	X							
48	DO7_20211221					X	X							
✓	TO7_20211221					Y	X							Please Send to Eurofins
49	BUR_BH116_0.5						X		X					
50	-3.0					X	X							
51	BUR_BH116_0.2_ACM		Fray					X						
52	BUR_BH115_0.2		Soil			Y	Y	Y	X					
54	TSC													

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V = VOA Vial HCl Preserved; VB = VOA Vial Sodium Bisulphate Preserved; VS = VOA Vial Sulfuric Preserved; AV = Airfreight Unpreserved Vial SG = Sulfuric Preserved Amber Glass; H = HCl preserved Plastic; HS = HCl preserved Speciation bottle; SP = Sulfuric Preserved Plastic; F = Formaldehyde Preserved Glass;
Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; ASS = Plastic Bag for Acid Sulphate Soils; B = Unpreserved Bag.

A.S Alicese 28,12,21 3:44pm 853323

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www.eurofins.com.au EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

Sample Receipt Advice

Company name:	ERM Sydney
Contact name:	Jessica Lawrence
Project name:	0577577-BURWOOD
Project ID:	577577
Turnaround time:	5 Day
Date/Time received	Dec 23, 2021 3:44 PM
Eurofins reference	853323

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✗	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
✗	Split sample sent to requested external lab.
✗	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

There is only one container provided for sample T08-20211221. As there is no Jar container and subsampling is not possible from The plastic container, tests: Suite 7, suit 15, ASB and VOC were cancelled for this sample. However, there is an extra Jar container for sample T07-20211221. Please advise on these.

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

John Nguyen on phone : or by email: JohnNguyen@eurofins.com

Results will be delivered electronically via email to Jessica Lawrence - jessica.lawrence@erm.com.

Note: A copy of these results will also be delivered to the general ERM Sydney email address.

eurofins | Environment Testing

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
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Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

Company Name: ERM Sydney
Address: Level 15, 309 Kent St
Sydney
NSW 2000

Project Name: 0577577-BURWOOD
Project ID: 577577

Order No.:
Report #: 853323
Phone: 02 8584 8888
Fax: 02 8584 8800

Received: Dec 23, 2021 3:44 PM
Due: Jan 3, 2022
Priority: 5 Day
Contact Name: Jessica Lawrence

Eurofins Analytical Services Manager : John Nguyen

Sample Detail						Eurofins Suite B15	Volatile Organics	Moisture Set	Moisture Set	Eurofins Suite B7	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254											
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794								X	X		X
Mayfield Laboratory - NATA # 1261 Site # 25079											
Perth Laboratory - NATA # 2377 Site # 2370											
External Laboratory											
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**						
1	T05-20211220	Dec 20, 2021		Soil	S21-De59539	X			X	X	X
2	T06-20211220	Dec 20, 2021		Soil	S21-De59540	X	X		X	X	
3	T08-20211221	Dec 21, 2021		Soil	S21-De59541			X			X
4	T07-20211221	Dec 21, 2021		Soil	S21-De59542	X			X	X	X
Test Counts						3	1	4	4	3	3

ERM Sydney
Level 15, 309 Kent St
Sydney
NSW 2000

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Attention: **Jessica Lawrence**

Report **853323-S**
Project name 0577577-BURWOOD
Project ID 577577
Received Date Dec 23, 2021

Client Sample ID			**T05-20211220**	**T06-20211220**	**T08-20211221**	[G01] **T07-20211221**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**S21-De59539**	**S21-De59540**	**S21-De59541**	**S21-De59542**
Date Sampled			**Dec 20, 2021**	**Dec 20, 2021**	**Dec 21, 2021**	**Dec 21, 2021**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	-	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	-	< 20
TRH C15-C28	50	mg/kg	120	< 50	-	160
TRH C29-C36	50	mg/kg	< 50	< 50	-	82
TRH C10-C36 (Total)	50	mg/kg	120	< 50	-	242
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	-	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	-	< 50
TRH >C16-C34	100	mg/kg	260	< 100	-	410
TRH >C34-C40	100	mg/kg	< 100	< 100	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	260	< 100	-	410
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	82	101	-	94
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	1.2	< 0.5	-	0.8
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	1.4	0.6	-	1.1
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.7	1.2	-	1.4
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	0.8	< 0.5	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	0.9	< 0.5	-	0.7
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	0.6	< 0.5	-	0.6
Benzo(g.h.i)perylene	0.5	mg/kg	0.5	< 0.5	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	0.9	< 0.5	-	0.6
Chrysene	0.5	mg/kg	0.7	< 0.5	-	0.7
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5

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Eurofins Sample No.			S21-De59539	S21-De59540	S21-De59541	S21-De59542
Date Sampled			Dec 20, 2021	Dec 20, 2021	Dec 21, 2021	Dec 21, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Fluoranthene	0.5	mg/kg	1.4	< 0.5	-	0.7
Fluorene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	0.5	< 0.5	-	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Phenanthrene	0.5	mg/kg	0.7	< 0.5	-	< 0.5
Pyrene	0.5	mg/kg	1.5	< 0.5	-	0.8
Total PAH*	0.5	mg/kg	8.5	< 0.5	-	4.1
2-Fluorobiphenyl (surr.)	1	%	73	88	-	85
p-Terphenyl-d14 (surr.)	1	%	81	102	-	85
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	-	< 1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	-	< 0.5
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	-	< 0.5
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	-	< 0.5
a-HCH	0.05	mg/kg	< 0.05	< 0.05	-	< 0.5
Aldrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.5
b-HCH	0.05	mg/kg	< 0.05	< 0.05	-	< 0.5
d-HCH	0.05	mg/kg	< 0.05	< 0.05	-	< 0.5
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.5
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	-	< 0.5
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	-	< 0.5
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	-	< 0.5
Endrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.5
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	-	< 0.5
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	-	< 0.5
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	-	< 0.5
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	-	< 0.5
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	-	< 0.5
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	-	< 0.5
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	-	< 0.5
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	-	< 10
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	< 0.5
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	< 0.5
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	< 1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	< 1
Dibutylchlorendate (surr.)	1	%	96	105	-	74
Tetrachloro-m-xylene (surr.)	1	%	79	95	-	92
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Bolstar	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Chlorfenvinphos	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Chlorpyrifos	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Coumaphos	2	mg/kg	< 2	< 2	-	< 5
Demeton-S	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Demeton-O	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Diazinon	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Dichlorvos	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Dimethoate	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5

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Eurofins Sample No.			S21-De59539	S21-De59540	S21-De59541	S21-De59542
Date Sampled			Dec 20, 2021	Dec 20, 2021	Dec 21, 2021	Dec 21, 2021
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Disulfoton	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
EPN	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Ethion	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Ethoprop	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Ethyl parathion	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Fenitrothion	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Fensulfothion	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Fenthion	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Malathion	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Merphos	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Methyl parathion	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Mevinphos	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Monocrotophos	2	mg/kg	< 2	< 2	-	< 5
Naled	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Omethoate	2	mg/kg	< 2	< 2	-	< 5
Phorate	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Pirimiphos-methyl	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Pyrazophos	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Ronnel	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Terbufos	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Tetrachlorvinphos	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Tokuthion	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Trichloronate	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Triphenylphosphate (surr.)	1	%	113	130	-	68
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	-	< 1
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	-	< 1
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	-	< 1
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	-	< 1
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	-	< 1
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	-	< 1
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	-	< 1
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	-	< 1
Dibutylchlorendate (surr.)	1	%	96	105	-	74
Tetrachloro-m-xylene (surr.)	1	%	79	95	-	92
Heavy Metals						
Arsenic	2	mg/kg	8.8	11	-	11
Cadmium	0.4	mg/kg	< 0.4	< 0.4	-	3.7
Chromium	5	mg/kg	25	12	-	27
Copper	5	mg/kg	220	37	-	120
Lead	5	mg/kg	290	21	-	990
Mercury	0.1	mg/kg	0.1	< 0.1	-	0.4
Nickel	5	mg/kg	16	8.3	-	43
Zinc	5	mg/kg	170	44	-	990
% Moisture	1	%	26	8.5	20	15

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Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-De59539	S21-De59540	S21-De59541	S21-De59542
Date Sampled			Dec 20, 2021	Dec 20, 2021	Dec 21, 2021	Dec 21, 2021
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	< 5	-	< 5	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	< 5	-	< 5	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	< 5	-	< 5	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	< 5	-	< 5	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	-	< 5	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	< 5	-	< 5	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	< 5	-	< 5	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	< 5	-	< 5	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	< 5	-	< 5	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	< 5	-	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5	-	< 5	< 5
13C4-PFBA (surr.)	1	%	103	-	106	96
13C5-PFPeA (surr.)	1	%	112	-	110	99
13C5-PFHxA (surr.)	1	%	109	-	118	113
13C4-PFHpA (surr.)	1	%	118	-	127	112
13C8-PFOA (surr.)	1	%	106	-	113	110
13C5-PFNA (surr.)	1	%	111	-	117	110
13C6-PFDA (surr.)	1	%	116	-	119	114
13C2-PFUnDA (surr.)	1	%	135	-	142	130
13C2-PFDoDA (surr.)	1	%	132	-	122	117
13C2-PFTeDA (surr.)	1	%	112	-	100	91
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5	-	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5	-	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5	-	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)[N11]	5	ug/kg	< 5	-	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)[N11]	5	ug/kg	< 5	-	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10	-	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10	-	< 10	< 10
13C8-FOSA (surr.)	1	%	120	-	127	125
D3-N-MeFOSA (surr.)	1	%	106	-	105	102
D5-N-EtFOSA (surr.)	1	%	66	-	68	65
D7-N-MeFOSE (surr.)	1	%	102	-	112	103
D9-N-EtFOSE (surr.)	1	%	94	-	96	97
D5-N-EtFOSAA (surr.)	1	%	110	-	117	111
D3-N-MeFOSAA (surr.)	1	%	128	-	148	136
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5	-	< 5	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5	-	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5	-	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5	-	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	-	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5	-	< 5	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	-	< 5	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5	-	< 5	< 5

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Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-De59539	S21-De59540	S21-De59541	S21-De59542
Date Sampled			Dec 20, 2021	Dec 20, 2021	Dec 21, 2021	Dec 21, 2021
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSAs)						
13C3-PFBS (surr.)	1	%	104	-	103	94
18O2-PFHxS (surr.)	1	%	117	-	115	108
13C8-PFOS (surr.)	1	%	114	-	117	112
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5	-	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)[N11]	10	ug/kg	< 10	-	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5	-	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5	-	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	122	-	123	88
13C2-6:2 FTSA (surr.)	1	%	134	-	150	118
13C2-8:2 FTSA (surr.)	1	%	125	-	147	139
13C2-10:2 FTSA (surr.)	1	%	101	-	101	83
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	-	< 5	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	-	< 5	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	-	< 5	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	-	< 10	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50	-	< 50	< 50
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
1.1.1-Trichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.2-Trichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dibromoethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
1.2-Dichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.2.3-Trichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	-
1.3-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
1.3-Dichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	-
1.4-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
2-Butanone (MEK)	0.5	mg/kg	-	< 0.5	-	-
2-Propanone (Acetone)	0.5	mg/kg	-	< 0.5	-	-
4-Chlorotoluene	0.5	mg/kg	-	< 0.5	-	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	< 0.5	-	-
Allyl chloride	0.5	mg/kg	-	< 0.5	-	-
Benzene	0.1	mg/kg	-	< 0.1	-	-
Bromobenzene	0.5	mg/kg	-	< 0.5	-	-
Bromochloromethane	0.5	mg/kg	-	< 0.5	-	-
Bromodichloromethane	0.5	mg/kg	-	< 0.5	-	-
Bromoform	0.5	mg/kg	-	< 0.5	-	-
Bromomethane	0.5	mg/kg	-	< 0.5	-	-

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Date Sampled			Dec 20, 2021	Dec 20, 2021	Dec 21, 2021	Dec 21, 2021
Test/Reference	LOR	Unit				
Volatile Organics						
Carbon disulfide	0.5	mg/kg	-	< 0.5	-	-
Carbon Tetrachloride	0.5	mg/kg	-	< 0.5	-	-
Chlorobenzene	0.5	mg/kg	-	< 0.5	-	-
Chloroethane	0.5	mg/kg	-	< 0.5	-	-
Chloroform	0.5	mg/kg	-	< 0.5	-	-
Chloromethane	0.5	mg/kg	-	< 0.5	-	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
cis-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	-
Dibromochloromethane	0.5	mg/kg	-	< 0.5	-	-
Dibromomethane	0.5	mg/kg	-	< 0.5	-	-
Dichlorodifluoromethane	0.5	mg/kg	-	< 0.5	-	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	-
Iodomethane	0.5	mg/kg	-	< 0.5	-	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	< 0.5	-	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	-
Methylene Chloride	0.5	mg/kg	-	< 0.5	-	-
o-Xylene	0.1	mg/kg	-	< 0.1	-	-
Styrene	0.5	mg/kg	-	< 0.5	-	-
Tetrachloroethene	0.5	mg/kg	-	< 0.5	-	-
Toluene	0.1	mg/kg	-	< 0.1	-	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	-
Trichloroethene	0.5	mg/kg	-	< 0.5	-	-
Trichlorofluoromethane	0.5	mg/kg	-	< 0.5	-	-
Vinyl chloride	0.5	mg/kg	-	< 0.5	-	-
Xylenes - Total*	0.3	mg/kg	-	< 0.3	-	-
Total MAH*	0.5	mg/kg	-	< 0.5	-	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	< 0.5	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	< 0.5	-	-
4-Bromofluorobenzene (surr.)	1	%	-	101	-	-
Toluene-d8 (surr.)	1	%	-	113	-	-

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Dec 30, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Dec 30, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Dec 30, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Dec 30, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons	Sydney	Dec 30, 2021	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Metals M8	Sydney	Dec 30, 2021	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Eurofins Suite B15			
Organochlorine Pesticides	Sydney	Dec 30, 2021	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Organophosphorus Pesticides	Sydney	Dec 30, 2021	14 Days
- Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS			
Polychlorinated Biphenyls	Sydney	Dec 30, 2021	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
% Moisture	Sydney	Dec 29, 2021	14 Days
- Method: LTM-GEN-7080 Moisture			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Brisbane	Jan 05, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Brisbane	Jan 05, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Brisbane	Jan 05, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Brisbane	Jan 05, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Volatile Organics	Sydney	Dec 30, 2021	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices			

eurofins | Environment Testing

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

Company Name: ERM Sydney
Address: Level 15, 309 Kent St
Sydney
NSW 2000

Project Name: 0577577-BURWOOD
Project ID: 577577

Order No.:
Report #: 853323
Phone: 02 8584 8888
Fax: 02 8584 8800

Received: Dec 23, 2021 3:44 PM
Due: Jan 3, 2022
Priority: 5 Day
Contact Name: Jessica Lawrence

Eurofins Analytical Services Manager : John Nguyen

Sample Detail						Eurofins Suite B15	Volatile Organics	Moisture Set	Moisture Set	Eurofins Suite B7	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254											
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794								X	X		X
Mayfield Laboratory - NATA # 1261 Site # 25079											
Perth Laboratory - NATA # 2377 Site # 2370											
External Laboratory											
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**						
1	T05-20211220	Dec 20, 2021		Soil	S21-De59539	X			X	X	X
2	T06-20211220	Dec 20, 2021		Soil	S21-De59540	X	X		X	X	
3	T08-20211221	Dec 21, 2021		Soil	S21-De59541			X			X
4	T07-20211221	Dec 21, 2021		Soil	S21-De59542	X			X	X	X
Test Counts						3	1	4	4	3	3

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
µg/L: micrograms per litre
ppm: parts per million
ppb: parts per billion
%: Percentage
org/100mL: Organisms per 100 millilitres
NTU: Nephelometric Turbidity Units
MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.4
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

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QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-HCH	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-HCH	mg/kg	< 0.05			0.05	Pass	
d-HCH	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-HCH (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.05			0.05	Pass	
Toxaphene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organophosphorus Pesticides							
Azinphos-methyl	mg/kg	< 0.2			0.2	Pass	
Bolstar	mg/kg	< 0.2			0.2	Pass	
Chlorfenvinphos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos-methyl	mg/kg	< 0.2			0.2	Pass	
Coumaphos	mg/kg	< 2			2	Pass	
Demeton-S	mg/kg	< 0.2			0.2	Pass	
Demeton-O	mg/kg	< 0.2			0.2	Pass	
Diazinon	mg/kg	< 0.2			0.2	Pass	
Dichlorvos	mg/kg	< 0.2			0.2	Pass	
Dimethoate	mg/kg	< 0.2			0.2	Pass	
Disulfoton	mg/kg	< 0.2			0.2	Pass	
EPN	mg/kg	< 0.2			0.2	Pass	
Ethion	mg/kg	< 0.2			0.2	Pass	
Ethoprop	mg/kg	< 0.2			0.2	Pass	
Ethyl parathion	mg/kg	< 0.2			0.2	Pass	
Fenitrothion	mg/kg	< 0.2			0.2	Pass	
Fensulfothion	mg/kg	< 0.2			0.2	Pass	
Fenthion	mg/kg	< 0.2			0.2	Pass	
Malathion	mg/kg	< 0.2			0.2	Pass	
Merphos	mg/kg	< 0.2			0.2	Pass	
Methyl parathion	mg/kg	< 0.2			0.2	Pass	
Mevinphos	mg/kg	< 0.2			0.2	Pass	
Monocrotophos	mg/kg	< 2			2	Pass	
Naled	mg/kg	< 0.2			0.2	Pass	
Omethoate	mg/kg	< 2			2	Pass	
Phorate	mg/kg	< 0.2			0.2	Pass	
Pirimiphos-methyl	mg/kg	< 0.2			0.2	Pass	
Pyrazophos	mg/kg	< 0.2			0.2	Pass	
Ronnel	mg/kg	< 0.2			0.2	Pass	
Terbufos	mg/kg	< 0.2			0.2	Pass	
Tetrachlorvinphos	mg/kg	< 0.2			0.2	Pass	
Tokuthion	mg/kg	< 0.2			0.2	Pass	
Trichloronate	mg/kg	< 0.2			0.2	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.1			0.1	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	Pass	
Aroclor-1232	mg/kg	< 0.1			0.1	Pass	
Aroclor-1242	mg/kg	< 0.1			0.1	Pass	
Aroclor-1248	mg/kg	< 0.1			0.1	Pass	
Aroclor-1254	mg/kg	< 0.1			0.1	Pass	
Aroclor-1260	mg/kg	< 0.1			0.1	Pass	
Total PCB*	mg/kg	< 0.1			0.1	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/kg	< 5			5	Pass	
Perfluoropentanoic acid (PFPeA)	ug/kg	< 5			5	Pass	
Perfluorohexanoic acid (PFHxA)	ug/kg	< 5			5	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/kg	< 5			5	Pass	
Perfluorooctanoic acid (PFOA)	ug/kg	< 5			5	Pass	
Perfluorononanoic acid (PFNA)	ug/kg	< 5			5	Pass	
Perfluorodecanoic acid (PFDA)	ug/kg	< 5			5	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/kg	< 5			5	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/kg	< 5			5	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/kg	< 5			5	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/kg	< 5			5	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/kg	< 5			5	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/kg	< 5			5	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/kg	< 5			5	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	ug/kg	< 5			5	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	ug/kg	< 5			5	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	< 10			10	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	< 10			10	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	ug/kg	< 5			5	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/kg	< 5			5	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/kg	< 5			5	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/kg	< 5			5	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	< 5			5	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/kg	< 5			5	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/kg	< 5			5	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/kg	< 5			5	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	ug/kg	< 10			10	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/kg	< 5			5	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
1.1.1-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.1.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
1.1.2-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dibromoethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.3-Trichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.4-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.3.5-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
2-Butanone (MEK)	mg/kg	< 0.5			0.5	Pass	
2-Propanone (Acetone)	mg/kg	< 0.5			0.5	Pass	
4-Chlorotoluene	mg/kg	< 0.5			0.5	Pass	
4-Methyl-2-pentanone (MIBK)	mg/kg	< 0.5			0.5	Pass	
Allyl chloride	mg/kg	< 0.5			0.5	Pass	
Bromobenzene	mg/kg	< 0.5			0.5	Pass	
Bromochloromethane	mg/kg	< 0.5			0.5	Pass	
Bromodichloromethane	mg/kg	< 0.5			0.5	Pass	
Bromoform	mg/kg	< 0.5			0.5	Pass	
Bromomethane	mg/kg	< 0.5			0.5	Pass	
Carbon disulfide	mg/kg	< 0.5			0.5	Pass	
Carbon Tetrachloride	mg/kg	< 0.5			0.5	Pass	
Chlorobenzene	mg/kg	< 0.5			0.5	Pass	
Chloroethane	mg/kg	< 0.5			0.5	Pass	
Chloroform	mg/kg	< 0.5			0.5	Pass	
Chloromethane	mg/kg	< 0.5			0.5	Pass	
cis-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
cis-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Dibromochloromethane	mg/kg	< 0.5			0.5	Pass	
Dibromomethane	mg/kg	< 0.5			0.5	Pass	
Dichlorodifluoromethane	mg/kg	< 0.5			0.5	Pass	
Iodomethane	mg/kg	< 0.5			0.5	Pass	
Isopropyl benzene (Cumene)	mg/kg	< 0.5			0.5	Pass	
Methylene Chloride	mg/kg	< 0.5			0.5	Pass	
Styrene	mg/kg	< 0.5			0.5	Pass	
Tetrachloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Trichloroethene	mg/kg	< 0.5			0.5	Pass	
Trichlorofluoromethane	mg/kg	< 0.5			0.5	Pass	
Vinyl chloride	mg/kg	< 0.5			0.5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	74			70-130	Pass	
TRH C10-C14	%	112			70-130	Pass	
Naphthalene	%	88			70-130	Pass	
TRH C6-C10	%	70			70-130	Pass	
TRH >C10-C16	%	114			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	109			70-130	Pass	
Toluene	%	99			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Ethylbenzene	%	89			70-130	Pass	
m&p-Xylenes	%	103			70-130	Pass	
o-Xylene	%	101			70-130	Pass	
Xylenes - Total*	%	102			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	82			70-130	Pass	
Acenaphthylene	%	87			70-130	Pass	
Anthracene	%	76			70-130	Pass	
Benz(a)anthracene	%	81			70-130	Pass	
Benzo(a)pyrene	%	88			70-130	Pass	
Benzo(b&j)fluoranthene	%	90			70-130	Pass	
Benzo(g.h.i)perylene	%	73			70-130	Pass	
Benzo(k)fluoranthene	%	81			70-130	Pass	
Chrysene	%	78			70-130	Pass	
Dibenz(a.h)anthracene	%	86			70-130	Pass	
Fluoranthene	%	83			70-130	Pass	
Fluorene	%	86			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	75			70-130	Pass	
Naphthalene	%	88			70-130	Pass	
Phenanthrene	%	92			70-130	Pass	
Pyrene	%	83			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	74			70-130	Pass	
4.4'-DDD	%	73			70-130	Pass	
4.4'-DDE	%	73			70-130	Pass	
4.4'-DDT	%	70			70-130	Pass	
a-HCH	%	70			70-130	Pass	
Aldrin	%	73			70-130	Pass	
b-HCH	%	78			70-130	Pass	
d-HCH	%	70			70-130	Pass	
Dieldrin	%	74			70-130	Pass	
Endosulfan I	%	73			70-130	Pass	
Endosulfan II	%	82			70-130	Pass	
Endosulfan sulphate	%	70			70-130	Pass	
Endrin	%	70			70-130	Pass	
Endrin ketone	%	74			70-130	Pass	
g-HCH (Lindane)	%	72			70-130	Pass	
Heptachlor	%	70			70-130	Pass	
Heptachlor epoxide	%	75			70-130	Pass	
Hexachlorobenzene	%	75			70-130	Pass	
Methoxychlor	%	79			70-130	Pass	
LCS - % Recovery							
Organophosphorus Pesticides							
Diazinon	%	96			70-130	Pass	
Dimethoate	%	88			70-130	Pass	
Ethion	%	106			70-130	Pass	
Fenitrothion	%	103			70-130	Pass	
Methyl parathion	%	122			70-130	Pass	
Mevinphos	%	106			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1016	%	76			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Aroclor-1260	%	81			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	112			80-120	Pass	
Cadmium	%	114			80-120	Pass	
Chromium	%	112			80-120	Pass	
Copper	%	109			80-120	Pass	
Lead	%	112			80-120	Pass	
Mercury	%	114			80-120	Pass	
Nickel	%	113			80-120	Pass	
Zinc	%	112			80-120	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	92			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	95			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	99			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	94			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	94			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	96			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	94			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	97			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	107			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	109			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	102			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	93			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	87			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	105			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	%	107			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	%	101			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	95			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	107			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	85			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	95			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	103			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	82			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	86			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	87			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	95			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	82			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	94			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	%	102			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	86			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	89			50-150	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethene	%	84			70-130	Pass	
1.1.1-Trichloroethane	%	71			70-130	Pass	
1.2-Dichlorobenzene	%	96			70-130	Pass	

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
1.2-Dichloroethane			%	102			70-130	Pass	
Trichloroethene			%	87			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	S21-De54496	NCP	%	74			70-130	Pass	
TRH C10-C14	S21-De57701	NCP	%	103			70-130	Pass	
Naphthalene	S21-De54496	NCP	%	93			70-130	Pass	
TRH C6-C10	S21-De54496	NCP	%	77			70-130	Pass	
TRH >C10-C16	S21-De57701	NCP	%	100			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S21-De54496	NCP	%	79			70-130	Pass	
Toluene	S21-De54496	NCP	%	79			70-130	Pass	
Ethylbenzene	S21-De54496	NCP	%	83			70-130	Pass	
m&p-Xylenes	S21-De54496	NCP	%	83			70-130	Pass	
o-Xylene	S21-De54496	NCP	%	89			70-130	Pass	
Xylenes - Total*	S21-De54496	NCP	%	85			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Benzo(g.h.i)perylene	S21-De59736	NCP	%	89			70-130	Pass	
Chrysene	S21-De59736	NCP	%	86			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Aldrin	S21-De59736	NCP	%	80			70-130	Pass	
Endosulfan sulphate	S21-De59736	NCP	%	72			70-130	Pass	
Endrin ketone	S21-De59736	NCP	%	72			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S21-De59706	NCP	%	104			75-125	Pass	
Cadmium	N21-De50186	NCP	%	75			75-125	Pass	
Chromium	S21-De59706	NCP	%	107			75-125	Pass	
Copper	N21-De50186	NCP	%	123			75-125	Pass	
Lead	S21-De59706	NCP	%	103			75-125	Pass	
Mercury	N21-De50186	NCP	%	75			75-125	Pass	
Nickel	S21-De57657	NCP	%	98			75-125	Pass	
Zinc	N21-De50186	NCP	%	111			75-125	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	S21-De59295	NCP	%	99			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	S21-De59295	NCP	%	105			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	S21-De59295	NCP	%	90			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	S21-De59295	NCP	%	91			50-150	Pass	
Perfluorooctanoic acid (PFOA)	S21-De59295	NCP	%	92			50-150	Pass	
Perfluorononanoic acid (PFNA)	S21-De59295	NCP	%	102			50-150	Pass	
Perfluorodecanoic acid (PFDA)	S21-De59295	NCP	%	87			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	S21-De59295	NCP	%	102			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	S21-De59295	NCP	%	98			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	S21-De59295	NCP	%	97			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	S21-De59295	NCP	%	101			50-150	Pass	
Spike - % Recovery									

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	S21-De59295	NCP	%	92			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S21-De59295	NCP	%	88			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S21-De59295	NCP	%	112			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	S21-De59295	NCP	%	108			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	S21-De59295	NCP	%	87			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S21-De59295	NCP	%	97			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S21-De59295	NCP	%	102			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	S21-De59295	NCP	%	79			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	S21-De59295	NCP	%	94			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	S21-De59295	NCP	%	93			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	S21-De59295	NCP	%	79			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	S21-De59295	NCP	%	80			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S21-De59295	NCP	%	86			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	S21-De59295	NCP	%	103			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	S21-De59295	NCP	%	80			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S21-De59295	NCP	%	95			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	S21-De59295	NCP	%	111			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S21-De59295	NCP	%	104			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S21-De59295	NCP	%	91			50-150	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S21-De59540	CP	%	73			70-130	Pass	
Acenaphthylene	S21-De59540	CP	%	77			70-130	Pass	
Anthracene	S21-De59540	CP	%	74			70-130	Pass	
Benz(a)anthracene	S21-De59540	CP	%	70			70-130	Pass	
Benzo(a)pyrene	S21-De59540	CP	%	77			70-130	Pass	
Benzo(b&j)fluoranthene	S21-De59540	CP	%	72			70-130	Pass	
Benzo(k)fluoranthene	S21-De59540	CP	%	80			70-130	Pass	
Dibenz(a.h)anthracene	S21-De59540	CP	%	72			70-130	Pass	
Fluoranthene	S21-De59540	CP	%	74			70-130	Pass	
Fluorene	S21-De59540	CP	%	77			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S21-De59540	CP	%	72			70-130	Pass	
Naphthalene	S21-De59540	CP	%	78			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Phenanthrene	S21-De59540	CP	%	77			70-130	Pass	
Pyrene	S21-De59540	CP	%	74			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S21-De59540	CP	%	79			70-130	Pass	
4.4'-DDD	S21-De59540	CP	%	75			70-130	Pass	
4.4'-DDE	S21-De59540	CP	%	75			70-130	Pass	
a-HCH	S21-De59540	CP	%	72			70-130	Pass	
b-HCH	S21-De59540	CP	%	77			70-130	Pass	
d-HCH	S21-De59540	CP	%	73			70-130	Pass	
Dieldrin	S21-De59540	CP	%	75			70-130	Pass	
Endosulfan I	S21-De59540	CP	%	78			70-130	Pass	
Endosulfan II	S21-De59540	CP	%	70			70-130	Pass	
Endrin	S21-De59540	CP	%	70			70-130	Pass	
g-HCH (Lindane)	S21-De59540	CP	%	76			70-130	Pass	
Heptachlor	S21-De59540	CP	%	74			70-130	Pass	
Heptachlor epoxide	S21-De59540	CP	%	81			70-130	Pass	
Hexachlorobenzene	S21-De59540	CP	%	77			70-130	Pass	
Methoxychlor	S21-De59540	CP	%	86			70-130	Pass	
Spike - % Recovery									
Organophosphorus Pesticides				Result 1					
Diazinon	S21-De59540	CP	%	104			70-130	Pass	
Dimethoate	S21-De59540	CP	%	86			70-130	Pass	
Ethion	S21-De59540	CP	%	117			70-130	Pass	
Fenitrothion	S21-De59540	CP	%	109			70-130	Pass	
Methyl parathion	S21-De59540	CP	%	130			70-130	Pass	
Mevinphos	S21-De59540	CP	%	118			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1016	S21-De59540	CP	%	74			70-130	Pass	
Aroclor-1260	S21-De59540	CP	%	90			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	S21-De58030	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S21-De58859	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S21-De58859	NCP	mg/kg	120	140	18	30%	Pass	
TRH C29-C36	S21-De58859	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
Naphthalene	S21-De58030	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S21-De58030	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S21-De58859	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S21-De58859	NCP	mg/kg	190	230	20	30%	Pass	
TRH >C34-C40	S21-De58859	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S21-De58030	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S21-De58030	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S21-De58030	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S21-De58030	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S21-De58030	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S21-De58030	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	

Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S21-De59735	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S21-De59735	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S21-De59735	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S21-De59735	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S21-De59735	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S21-De59735	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S21-De59735	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S21-De59735	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S21-De59735	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S21-De59735	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S21-De59735	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S21-De59735	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S21-De59735	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S21-De59735	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S21-De59735	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S21-De59735	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S21-De59735	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S21-De59735	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S21-De59735	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S21-De59735	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	S21-De59735	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S21-De59735	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	S21-De59735	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	S21-De59735	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S21-De59735	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S21-De59735	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S21-De59735	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S21-De59735	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S21-De59735	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S21-De59735	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S21-De59735	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	S21-De59735	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S21-De59735	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S21-De59735	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S21-De59735	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S21-De59735	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toxaphene	S21-De59735	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Azinphos-methyl	S21-De59735	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Bolstar	S21-De59735	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorfenvinphos	S21-De59735	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos	S21-De59735	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos-methyl	S21-De59735	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Coumaphos	S21-De59735	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Demeton-S	S21-De59735	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Demeton-O	S21-De59735	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Diazinon	S21-De59735	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dichlorvos	S21-De59735	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dimethoate	S21-De59735	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Disulfoton	S21-De59735	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
EPN	S21-De59735	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	

Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Ethion	S21-De59735	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethoprop	S21-De59735	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethyl parathion	S21-De59735	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenitrothion	S21-De59735	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fensulfothion	S21-De59735	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenthion	S21-De59735	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Malathion	S21-De59735	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Merphos	S21-De59735	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Methyl parathion	S21-De59735	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Mevinphos	S21-De59735	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Monocrotophos	S21-De59735	NCP	mg/kg	2.4	2.4	<1	30%	Pass	
Naled	S21-De59735	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Omethoate	S21-De59735	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Phorate	S21-De59735	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pirimiphos-methyl	S21-De59735	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pyrazophos	S21-De59735	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ronnel	S21-De59735	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Terbufos	S21-De59735	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tetrachlorvinphos	S21-De59735	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tokuthion	S21-De59735	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Trichloronate	S21-De59735	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	S21-De59735	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1221	S21-De59735	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	S21-De59735	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1242	S21-De59735	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1248	S21-De59735	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1254	S21-De59735	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1260	S21-De59735	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Total PCB*	S21-De59735	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	N21-De50182	NCP	mg/kg	2.2	2.5	12	30%	Pass	
Cadmium	N21-De50182	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	N21-De50182	NCP	mg/kg	< 5	5.4	8.0	30%	Pass	
Copper	N21-De50182	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
Lead	N21-De50182	NCP	mg/kg	< 5	5.4	25	30%	Pass	
Mercury	N21-De50182	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	N21-De50182	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
Zinc	N21-De50182	NCP	mg/kg	18	18	3.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-De59010	NCP	%	6.8	7.2	6.0	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	S21-De59294	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	S21-De59294	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	S21-De59294	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	S21-De59294	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	S21-De59294	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	S21-De59294	NCP	ug/kg	22	22	1.0	30%	Pass	
Perfluorodecanoic acid (PFDA)	S21-De59294	NCP	ug/kg	< 5	< 5	<1	30%	Pass	

Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluoroundecanoic acid (PFUnDA)	S21-De59294	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	S21-De59294	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	S21-De59294	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	S21-De59294	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	S21-De59294	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S21-De59294	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S21-De59294	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	S21-De59294	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	S21-De59294	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S21-De59294	NCP	ug/kg	< 10	< 10	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S21-De59294	NCP	ug/kg	< 10	< 10	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	S21-De59294	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	S21-De59294	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	S21-De59294	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	S21-De59294	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	S21-De59294	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S21-De59294	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	S21-De59294	NCP	ug/kg	160	150	4.0	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	S21-De59294	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S21-De59294	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	S21-De59294	NCP	ug/kg	< 10	< 10	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S21-De59294	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S21-De59294	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1-Dichloroethene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1-Trichloroethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1.2-Trichloroethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichlorobenzene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloroethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloropropane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3-Trichloropropane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trimethylbenzene	S21-De51655	NCP	mg/kg	0.9	1.6	50	30%	Fail	
1.3-Dichlorobenzene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichloropropane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3.5-Trimethylbenzene	S21-De51655	NCP	mg/kg	< 0.5	0.6	63	30%	Fail	
1.4-Dichlorobenzene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Butanone (MEK)	S21-De51655	NCP	mg/kg	0.5	0.7	26	30%	Pass	
2-Propanone (Acetone)	S21-De51655	NCP	mg/kg	2.9	3.3	13	30%	Pass	
4-Chlorotoluene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Allyl chloride	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromobenzene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromochloromethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromodichloromethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromoform	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromomethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon disulfide	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon Tetrachloride	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chlorobenzene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroform	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloromethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.2-Dichloroethene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.3-Dichloropropene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromochloromethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromomethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorodifluoromethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Iodomethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Isopropyl benzene (Cumene)	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Methylene Chloride	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Styrene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Tetrachloroethene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.2-Dichloroethene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.3-Dichloropropene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichloroethene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichlorofluoromethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Vinyl chloride	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
G01	The LORs have been raised due to matrix interference
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).

Authorised by:

Ursula Long	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
John Nguyen	Senior Analyst-Metal (NSW)
Roopesh Rangarajan	Senior Analyst-Volatile (NSW)
Sarah McCallion	Senior Analyst-PFAS (QLD)



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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Hi Team,

Please see highlighted notes below re this batch.

- Sample Trip Blank (ES2146476-034) and Trip Spike (ES2146476-035) not received – these were mistakenly added onto the CoC, please disregard these samples.
- Extra PFAS jar received with no ID (ES2146476-038) – were there any samples missing a PFAS containers?
- Extra Asbestos bag received – BUR_BH118_0.1 (ES2146476-039) – This bag should be relabelled BUR_BH118_0.25 (ES2146476-025). Please log Asbestos analysis as per the CoC.

Kind Regards,

Sep Mahamad

Project Manager, Environmental
Sydney

T +61 2 8784 8555
D +61 2 8784 8504
sepan.mahamad@alsglobal.com
277-289 Woodpark Road
Smithfield NSW 2164 AUSTRALIA

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From: Tristan Rodrigues <Tristan.Rodrigues@erm.com>
Sent: Wednesday, 22 December 2021 12:13 PM
To: Sepan Mahamad <Sepan.Mahamad@alsglobal.com>
Subject: [EXTERNAL] - RE: ES2146476 0577577-Burwood

CAUTION: This email originated from outside of ALS. Do not click links or open attachments unless you recognize the sender and are sure content is relevant to you.

Thanks Sep,

Extra Trip Spike and Trip Blank was a mistake on the COC as there was already one sent and received in this batch of samples (Lab ID 6 and 7)

Sample BUR_BH118_0.1 should be relabelled to BUR_BH118_0.25

For the extra PFAS jar received, was there any samples from the COC where a PFAS Jar was not received even if PFAS analysis was not requested.

Kind Regards

Tristan Rodrigues
Environmental Consultant

ERM
Unit 11, 277 Lane Cove Road|Macquarie Park|NSW|2113
T +61 2 8586 8750 **M** +61417187687
E Tristan.Rodrigues@erm.com | **W** www.erm.com



From: Sepan Mahamad <Sepan.Mahamad@alsglobal.com>
Sent: Wednesday, December 22, 2021 11:42 AM
To: Tristan Rodrigues <Tristan.Rodrigues@erm.com>
Subject: RE: ES2146476 0577577-Burwood

Hi Tristan,

There are also a few other notes re this batch:

- Sample Trip Blank (ES2146476-034) and Trip Spike (ES2146476-035) not received;
- Extra PFAS jar received with no ID (ES2146476-038)
- Extra Asbestos bag received – BUR_BH118_0.1 (ES2146476-039)

Kind Regards,

Sep Mahamad

Project Manager, Environmental
Sydney



T +61 2 8784 8555
D +61 2 8784 8504
sepan.mahamad@alsglobal.com
277-289 Woodpark Road
Smithfield NSW 2164 AUSTRALIA

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ALS Environmental

CERTIFICATE OF ANALYSIS

Work Order	: **ES2146476**	Page	: 1 of 45
Amendment	: **1**		
Client	: **ENVIRONMENTAL RESOURCES MANAGEMENT (ERM)**	Laboratory	: Environmental Division Sydney
Contact	: MS JESSICA LAWRENCE	Contact	: Customer Services ES
Address	: LEVEL 15 309 KENT STREET SYDNEY NSW AUSTRALIA 2000	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: +61 02 8584 8888	Telephone	: +61-2-8784 8555
Project	: 0577577-Burwood	Date Samples Received	: 17-Dec-2021 18:50
Order number	: ----	Date Analysis Commenced	: 20-Dec-2021
C-O-C number	: ----	Issue Date	: 02-Feb-2022 16:17
Sampler	: MADUSHANI BOLONGHE, TRISTAN RODRIGUES		
Site	: ----		
Quote number	: EN/114		
No. of samples received	: 37		
No. of samples analysed	: 21		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Descriptive Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Alana Smylie	Asbestos Identifier	Newcastle - Asbestos, Mayfield West, NSW
Edwandy Fadjar	Organic Coordinator	Sydney Organics, Smithfield, NSW
Franco Lentini	LCMS Coordinator	Sydney Inorganics, Smithfield, NSW
Franco Lentini	LCMS Coordinator	Sydney Organics, Smithfield, NSW
Ivan Taylor	Analyst	Sydney Inorganics, Smithfield, NSW
Wisam Marassa	Inorganics Coordinator	Sydney Inorganics, Smithfield, NSW

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- EP075 (SIM): Where reported, Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) per the NEPM (2013) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a.h)anthracene (1.0), Benzo(g.h.i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero.
- Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) per the NEPM (2013) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a.h)anthracene (1.0), Benzo(g.h.i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero, for 'TEQ 1/2LOR' are treated as half the reported LOR, and for 'TEQ LOR' are treated as being equal to the reported LOR. Note: TEQ 1/2LOR and TEQ LOR will calculate as 0.6mg/Kg and 1.2mg/Kg respectively for samples with non-detects for all of the eight TEQ PAHs.
- EP231X - Per- and Polyfluoroalkyl Substances (PFAS): Samples received in 20ml or 125ml bottles have been tested in accordance with the QSM5.3 compliant, NATA accredited method. 60mL or 250mL bottles have been tested to the legacy QSM 5.1 aligned, NATA accredited method.
- EP080: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EP068: Where reported, Total Chlordane (sum) is the sum of the reported concentrations of cis-Chlordane and trans-Chlordane at or above the LOR.
- EP068: Where reported, Total OCP is the sum of the reported concentrations of all Organochlorine Pesticides at or above LOR.
- EP074: Where reported, Total Trihalomethanes is the sum of the reported concentrations of all Trihalomethanes at or above the LOR.
- EP074: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EP074: Where reported, Sum of chlorinated hydrocarbons includes carbon tetrachloride, chlorobenzene, chloroform, 1,2-dichlorobenzene, 1,4-dichlorobenzene, 1,2-dichloroethane, 1,1-dichloroethene, cis-1,2-dichlorothene, trans-1,2-dichlorothene, 1,1,1,2-tetrachloroethane, 1,1,2,2-tetrachloroethane, 1,2,4-trichlorobenzene, 1,1,1-trichloroethane, 1,1,2-trichloroethane, trichloroethene, vinyl chloride, hexachlorobutadiene and methylene chloride.
- EP074: Where reported, Total Trimethylbenzenes is the sum of the reported concentrations of 1.2.3-Trimethylbenzene, 1.2.4-Trimethylbenzene and 1.3.5-Trimethylbenzene at or above the LOR.
- EP075(SIM): Where reported, Total Cresol is the sum of the reported concentrations of 2-Methylphenol and 3- & 4-Methylphenol at or above the LOR.
- EG035: Positive Mercury result ES2146476 #12 has been confirmed by reanalysis.
- EP080: The trip spike and its control have been analysed for volatile TPH and BTEXN only. The trip spike and control were prepared in the lab using reagent grade sand spiked with petrol. The spike was dispatched from the lab and the control retained.
- Amendment (02/02/22):This report has been amended to changed LOR for PFAS analysis to 5ug/kg.
- EA200 'Am' Amosite (brown asbestos)
- EA200 'Cr' Crocidolite (blue asbestos)
- EA200 'Trace' - Asbestos fibres ("Free Fibres") detected by trace analysis per AS4964. The result can be interpreted that the sample contains detectable 'respirable' asbestos fibres
- EA200: Asbestos Identification Samples were analysed by Polarised Light Microscopy including dispersion staining.

- EA200 Legend
- EA200 'Ch' Chrysotile (white asbestos)
- EA200: 'UMF' Unknown Mineral Fibres. "-" indicates fibres detected may or may not be asbestos fibres. Confirmation by alternative techniques is recommended.
- EA200: For samples larger than 30g, the <2mm fraction may be sub-sampled prior to trace analysis as outlined in ISO23909:2008(E) Sect 6.3.2-2
- EA200: 'Yes' - Asbestos detected by polarised light microscopy including dispersion staining.
- EA200: 'No*' - No asbestos found, at the reporting limit of 0.1g/kg, by polarised light microscopy including dispersion staining. Asbestos material was detected and positively identified at concentrations estimated to be below 0.1g/kg.
- EA200: 'No' - No asbestos found at the reporting limit 0.1g/kg, by polarised light microscopy including dispersion staining.
- EP231: Stable isotope enriched internal standards are added to samples prior to extraction. Target compounds have a direct analogous internal standard with the exception of PFPeS, PFHpA, PFDS, PFTrDA and 10:2 FTS. These compounds use an internal standard that is chemically related and has a retention time close to that of the target compound. The DQO for internal standard response is 50-150% of that established at initial calibration. PFOS is quantified using a certified, traceable standard consisting of linear and branched PFOS isomers. These practices are in line with recommendations in the National Environmental Management Plan for PFAS (Australian HEPA) and also conform to QSM 5.3 (US DoD) requirements.

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH105_0.1	BUR_BH105_3.0	Trip Blank	Trip Spike	BUR_BH102_0.2 BUR_BH102_0.15
			Sampling date / time	15-Dec-2021 00:00	15-Dec-2021 00:00	15-Dec-2021 00:00	13-Dec-2021 00:00	16-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146476-001	ES2146476-004	ES2146476-006	ES2146476-007	ES2146476-008
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	15.3	12.0	----	----	15.0
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Asbestos Detected	1332-21-4	0.1	g/kg	No	----	----	----	----
Asbestos (Trace)	1332-21-4	5	Fibres	No	----	----	----	----
Asbestos Type	1332-21-4	-	--	-	----	----	----	----
Sample weight (dry)	----	0.01	g	134	----	----	----	----
APPROVED IDENTIFIER:	----	-	--	A. SMYLIE	----	----	----	----
Synthetic Mineral Fibre	----	0.1	g/kg	No	----	----	----	----
Organic Fibre	----	0.1	g/kg	No	----	----	----	----
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	<5	15	----	----	9
Cadmium	7440-43-9	1	mg/kg	<1	<1	----	----	<1
Chromium	7440-47-3	2	mg/kg	<2	7	----	----	15
Copper	7440-50-8	5	mg/kg	<5	33	----	----	<5
Lead	7439-92-1	5	mg/kg	6	44	----	----	41
Nickel	7440-02-0	2	mg/kg	<2	8	----	----	<2
Zinc	7440-66-6	5	mg/kg	80	31	----	----	16
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	----	----	<0.1
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	----	----	<0.1
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	----	----	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	----	----	<0.05
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	----	----	<0.05
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	----	----	<0.05
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	----	----	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	----	----	<0.05
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	----	----	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	----	----	<0.05
^ Total Chlordane (sum)	----	0.05	mg/kg	<0.05	<0.05	----	----	<0.05
trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	----	----	<0.05
alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	----	----	<0.05
cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	----	----	<0.05

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH105_0.1	BUR_BH105_3.0	Trip Blank	Trip Spike	BUR_BH102_0.2 BUR_BH102_0.15
			Sampling date / time	15-Dec-2021 00:00	15-Dec-2021 00:00	15-Dec-2021 00:00	13-Dec-2021 00:00	16-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146476-001	ES2146476-004	ES2146476-006	ES2146476-007	ES2146476-008
				Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued								
Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	----	----	<0.05
4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	----	----	<0.05
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	----	----	<0.05
beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	----	----	<0.05
^ Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	<0.05	----	----	<0.05
4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	----	----	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	----	----	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	----	----	<0.05
4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	----	----	<0.2
Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	----	----	<0.05
Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	----	----	<0.2
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.05	<0.05	----	----	<0.05
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.05	mg/kg	<0.05	<0.05	----	----	<0.05
EP068B: Organophosphorus Pesticides (OP)								
Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	----	----	<0.05
Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	----	----	<0.05
Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	----	----	<0.2
Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	----	----	<0.05
Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	----	----	<0.05
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	----	----	<0.05
Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	----	----	<0.2
Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	----	----	<0.05
Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	----	----	<0.05
Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	----	----	<0.05
Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	----	----	<0.2
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	----	----	<0.05
Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	----	----	<0.05
Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	----	----	<0.05
Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	----	----	<0.05
Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	----	----	<0.05
Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	----	----	<0.05
Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	----	----	<0.05
Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	----	----	<0.05

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH105_0.1	BUR_BH105_3.0	Trip Blank	Trip Spike	BUR_BH102_0.2 BUR_BH102_0.15
			Sampling date / time	15-Dec-2021 00:00	15-Dec-2021 00:00	15-Dec-2021 00:00	13-Dec-2021 00:00	16-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146476-001	ES2146476-004	ES2146476-006	ES2146476-007	ES2146476-008
				Result	Result	Result	Result	Result
EP074A: Monocyclic Aromatic Hydrocarbons								
Styrene	100-42-5	0.5	mg/kg	<0.5	----	----	----	<0.5
Isopropylbenzene	98-82-8	0.5	mg/kg	<0.5	----	----	----	<0.5
n-Propylbenzene	103-65-1	0.5	mg/kg	<0.5	----	----	----	<0.5
1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	<0.5	----	----	----	<0.5
sec-Butylbenzene	135-98-8	0.5	mg/kg	<0.5	----	----	----	<0.5
1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	<0.5	----	----	----	<0.5
tert-Butylbenzene	98-06-6	0.5	mg/kg	<0.5	----	----	----	<0.5
p-Isopropyltoluene	99-87-6	0.5	mg/kg	<0.5	----	----	----	<0.5
n-Butylbenzene	104-51-8	0.5	mg/kg	<0.5	----	----	----	<0.5
EP074B: Oxygenated Compounds								
Vinyl Acetate	108-05-4	5	mg/kg	<5	----	----	----	<5
2-Butanone (MEK)	78-93-3	5	mg/kg	<5	----	----	----	<5
4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	<5	----	----	----	<5
2-Hexanone (MBK)	591-78-6	5	mg/kg	<5	----	----	----	<5
EP074C: Sulfonated Compounds								
Carbon disulfide	75-15-0	0.5	mg/kg	<0.5	----	----	----	<0.5
EP074D: Fumigants								
2.2-Dichloropropane	594-20-7	0.5	mg/kg	<0.5	----	----	----	<0.5
1.2-Dichloropropane	78-87-5	0.5	mg/kg	<0.5	----	----	----	<0.5
cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	<0.5	----	----	----	<0.5
trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	<0.5	----	----	----	<0.5
1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	<0.5	----	----	----	<0.5
EP074E: Halogenated Aliphatic Compounds								
Dichlorodifluoromethane	75-71-8	5	mg/kg	<5	----	----	----	<5
Chloromethane	74-87-3	5	mg/kg	<5	----	----	----	<5
Vinyl chloride	75-01-4	5	mg/kg	<5	----	----	----	<5
Bromomethane	74-83-9	5	mg/kg	<5	----	----	----	<5
Chloroethane	75-00-3	5	mg/kg	<5	----	----	----	<5
Trichlorofluoromethane	75-69-4	5	mg/kg	<5	----	----	----	<5
1.1-Dichloroethene	75-35-4	0.5	mg/kg	<0.5	----	----	----	<0.5
Iodomethane	74-88-4	0.5	mg/kg	<0.5	----	----	----	<0.5
trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	<0.5	----	----	----	<0.5
1.1-Dichloroethane	75-34-3	0.5	mg/kg	<0.5	----	----	----	<0.5
cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	<0.5	----	----	----	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BUR_BH105_0.1	BUR_BH105_3.0	Trip Blank	Trip Spike	BUR_BH102_0.2 BUR_BH102_0.15
				Sampling date / time	15-Dec-2021 00:00	15-Dec-2021 00:00	15-Dec-2021 00:00	13-Dec-2021 00:00	16-Dec-2021 00:00
Compound	CAS Number	LOR	Unit		ES2146476-001	ES2146476-004	ES2146476-006	ES2146476-007	ES2146476-008
					Result	Result	Result	Result	Result
EP074E: Halogenated Aliphatic Compounds - Continued									
1.1.1-Trichloroethane	71-55-6	0.5	mg/kg		<0.5	----	----	----	<0.5
1.1-Dichloropropylene	563-58-6	0.5	mg/kg		<0.5	----	----	----	<0.5
Carbon Tetrachloride	56-23-5	0.5	mg/kg		<0.5	----	----	----	<0.5
1.2-Dichloroethane	107-06-2	0.5	mg/kg		<0.5	----	----	----	<0.5
Trichloroethene	79-01-6	0.5	mg/kg		<0.5	----	----	----	<0.5
Dibromomethane	74-95-3	0.5	mg/kg		<0.5	----	----	----	<0.5
1.1.2-Trichloroethane	79-00-5	0.5	mg/kg		<0.5	----	----	----	<0.5
1.3-Dichloropropane	142-28-9	0.5	mg/kg		<0.5	----	----	----	<0.5
Tetrachloroethene	127-18-4	0.5	mg/kg		<0.5	----	----	----	<0.5
1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg		<0.5	----	----	----	<0.5
trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg		<0.5	----	----	----	<0.5
cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg		<0.5	----	----	----	<0.5
1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg		<0.5	----	----	----	<0.5
1.2.3-Trichloropropane	96-18-4	0.5	mg/kg		<0.5	----	----	----	<0.5
Pentachloroethane	76-01-7	0.5	mg/kg		<0.5	----	----	----	<0.5
1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg		<0.5	----	----	----	<0.5
Hexachlorobutadiene	87-68-3	0.5	mg/kg		<0.5	----	----	----	<0.5
EP074F: Halogenated Aromatic Compounds									
Chlorobenzene	108-90-7	0.5	mg/kg		<0.5	----	----	----	<0.5
Bromobenzene	108-86-1	0.5	mg/kg		<0.5	----	----	----	<0.5
2-Chlorotoluene	95-49-8	0.5	mg/kg		<0.5	----	----	----	<0.5
4-Chlorotoluene	106-43-4	0.5	mg/kg		<0.5	----	----	----	<0.5
1.3-Dichlorobenzene	541-73-1	0.5	mg/kg		<0.5	----	----	----	<0.5
1.4-Dichlorobenzene	106-46-7	0.5	mg/kg		<0.5	----	----	----	<0.5
1.2-Dichlorobenzene	95-50-1	0.5	mg/kg		<0.5	----	----	----	<0.5
1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg		<0.5	----	----	----	<0.5
1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg		<0.5	----	----	----	<0.5
EP074G: Trihalomethanes									
Chloroform	67-66-3	0.5	mg/kg		<0.5	----	----	----	<0.5
Bromodichloromethane	75-27-4	0.5	mg/kg		<0.5	----	----	----	<0.5
Dibromochloromethane	124-48-1	0.5	mg/kg		<0.5	----	----	----	<0.5
Bromoform	75-25-2	0.5	mg/kg		<0.5	----	----	----	<0.5
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg		<0.5	<0.5	----	----	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BUR_BH105_0.1	BUR_BH105_3.0	Trip Blank	Trip Spike	BUR_BH102_0.2 BUR_BH102_0.15
				Sampling date / time	15-Dec-2021 00:00	15-Dec-2021 00:00	15-Dec-2021 00:00	13-Dec-2021 00:00	16-Dec-2021 00:00
Compound	CAS Number	LOR	Unit		ES2146476-001	ES2146476-004	ES2146476-006	ES2146476-007	ES2146476-008
					Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued									
Acenaphthylene	208-96-8	0.5	mg/kg		<0.5	<0.5	----	----	<0.5
Acenaphthene	83-32-9	0.5	mg/kg		<0.5	<0.5	----	----	<0.5
Fluorene	86-73-7	0.5	mg/kg		<0.5	<0.5	----	----	<0.5
Phenanthrene	85-01-8	0.5	mg/kg		<0.5	<0.5	----	----	<0.5
Anthracene	120-12-7	0.5	mg/kg		<0.5	<0.5	----	----	<0.5
Fluoranthene	206-44-0	0.5	mg/kg		<0.5	<0.5	----	----	<0.5
Pyrene	129-00-0	0.5	mg/kg		<0.5	<0.5	----	----	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg		<0.5	<0.5	----	----	<0.5
Chrysene	218-01-9	0.5	mg/kg		<0.5	<0.5	----	----	<0.5
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg		<0.5	<0.5	----	----	<0.5
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg		<0.5	<0.5	----	----	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg		<0.5	<0.5	----	----	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		<0.5	<0.5	----	----	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		<0.5	<0.5	----	----	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		<0.5	<0.5	----	----	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg		<0.5	<0.5	----	----	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg		<0.5	<0.5	----	----	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg		**0.6**	**0.6**	----	----	**0.6**
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg		**1.2**	**1.2**	----	----	**1.2**
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg		<10	<10	----	----	<10
C10 - C14 Fraction	----	50	mg/kg		<50	<50	----	----	<50
C15 - C28 Fraction	----	100	mg/kg		<100	<100	----	----	<100
C29 - C36 Fraction	----	100	mg/kg		<100	<100	----	----	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg		<50	<50	----	----	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		<10	<10	----	----	<10
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg		<10	<10	----	----	<10
>C10 - C16 Fraction	----	50	mg/kg		<50	<50	----	----	<50
>C16 - C34 Fraction	----	100	mg/kg		<100	<100	----	----	<100
>C34 - C40 Fraction	----	100	mg/kg		<100	<100	----	----	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg		<50	<50	----	----	<50

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH105_0.1	BUR_BH105_3.0	Trip Blank	Trip Spike	BUR_BH102_0.2 BUR_BH102_0.15
			Sampling date / time	15-Dec-2021 00:00	15-Dec-2021 00:00	15-Dec-2021 00:00	13-Dec-2021 00:00	16-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146476-001	ES2146476-004	ES2146476-006	ES2146476-007	ES2146476-008
				Result	Result	Result	Result	Result
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued								
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	<50	----	----	<50
EP080: BTEXN								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	**19.2**	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	**3.6**	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	<0.5	**18.8**	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	**7.9**	<0.5
^ Total Xylenes	----	0.5	mg/kg	<0.5	<0.5	<0.5	**26.7**	<0.5
^ Sum of BTEX	----	0.2	mg/kg	<0.2	<0.2	<0.2	**49.5**	<0.2
Naphthalene	91-20-3	1	mg/kg	<1	<1	<1	**1**	<1
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	5.0	µg/kg	<5.0	----	----	----	<5.0
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	5.0	µg/kg	<5.0	----	----	----	<5.0
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	5.0	µg/kg	<5.0	----	----	----	<5.0
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	5.0	µg/kg	<5.0	----	----	----	<5.0
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	5.0	µg/kg	<5.0	----	----	----	<5.0
Perfluorodecane sulfonic acid (PFDS)	335-77-3	5.0	µg/kg	<5.0	----	----	----	<5.0
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	5	µg/kg	<5	----	----	----	<5
Perfluoropentanoic acid (PFPeA)	2706-90-3	5.0	µg/kg	<5.0	----	----	----	<5.0
Perfluorohexanoic acid (PFHxA)	307-24-4	5.0	µg/kg	<5.0	----	----	----	<5.0
Perfluoroheptanoic acid (PFHpA)	375-85-9	5.0	µg/kg	<5.0	----	----	----	<5.0
Perfluorooctanoic acid (PFOA)	335-67-1	5.0	µg/kg	<5.0	----	----	----	<5.0
Perfluorononanoic acid (PFNA)	375-95-1	5.0	µg/kg	<5.0	----	----	----	<5.0
Perfluorodecanoic acid (PFDA)	335-76-2	5.0	µg/kg	<5.0	----	----	----	<5.0
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	5.0	µg/kg	<5.0	----	----	----	<5.0

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH105_0.1	BUR_BH105_3.0	Trip Blank	Trip Spike	BUR_BH102_0.2 BUR_BH102_0.15
			Sampling date / time	15-Dec-2021 00:00	15-Dec-2021 00:00	15-Dec-2021 00:00	13-Dec-2021 00:00	16-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146476-001	ES2146476-004	ES2146476-006	ES2146476-007	ES2146476-008
				Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorododecanoic acid (PFDoDA)	307-55-1	5.0	µg/kg	<5.0	----	----	----	<5.0
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	5.0	µg/kg	<5.0	----	----	----	<5.0
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	5.0	µg/kg	<5.0	----	----	----	<5.0
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	5.0	µg/kg	<5.0	----	----	----	<5.0
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	5.0	µg/kg	<5.0	----	----	----	<5.0
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	5.0	µg/kg	<5.0	----	----	----	<5.0
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	5.0	µg/kg	<5.0	----	----	----	<5.0
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	5.0	µg/kg	<5.0	----	----	----	<5.0
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	5.0	µg/kg	<5.0	----	----	----	<5.0
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	5.0	µg/kg	<5.0	----	----	----	<5.0
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	5.0	µg/kg	<5.0	----	----	----	<5.0
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	5.0	µg/kg	<5.0	----	----	----	<5.0
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	5.0	µg/kg	<5.0	----	----	----	<5.0
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	5.0	µg/kg	<5.0	----	----	----	<5.0
EP231P: PFAS Sums								
Sum of PFAS	----	5.0	µg/kg	<5.0	----	----	----	<5.0
Sum of PFHxS and PFOS	355-46-4/1763-23-1	5.0	µg/kg	<5.0	----	----	----	<5.0

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH105_0.1	BUR_BH105_3.0	Trip Blank	Trip Spike	BUR_BH102_0.2 BUR_BH102_0.15
			Sampling date / time	15-Dec-2021 00:00	15-Dec-2021 00:00	15-Dec-2021 00:00	13-Dec-2021 00:00	16-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146476-001	ES2146476-004	ES2146476-006	ES2146476-007	ES2146476-008
				Result	Result	Result	Result	Result
EP231P: PFAS Sums - Continued								
Sum of PFAS (WA DER List)	----	5.0	µg/kg	<5.0	----	----	----	<5.0
EP066S: PCB Surrogate								
Decachlorobiphenyl	2051-24-3	0.1	%	101	120	----	----	119
EP068S: Organochlorine Pesticide Surrogate								
Dibromo-DDE	21655-73-2	0.05	%	98.0	107	----	----	119
EP068T: Organophosphorus Pesticide Surrogate								
DEF	78-48-8	0.05	%	68.4	76.0	----	----	131
EP074S: VOC Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.5	%	101	----	----	----	89.0
Toluene-D8	2037-26-5	0.5	%	103	----	----	----	92.5
4-Bromofluorobenzene	460-00-4	0.5	%	100	----	----	----	90.7
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.5	%	80.7	88.8	----	----	91.4
2-Chlorophenol-D4	93951-73-6	0.5	%	85.8	95.8	----	----	96.7
2.4.6-Tribromophenol	118-79-6	0.5	%	79.8	87.0	----	----	89.5
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.5	%	96.3	105	----	----	107
Anthracene-d10	1719-06-8	0.5	%	87.4	94.8	----	----	99.4
4-Terphenyl-d14	1718-51-0	0.5	%	88.8	96.8	----	----	99.4
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	89.7	101	133	94.8	78.9
Toluene-D8	2037-26-5	0.2	%	107	118	130	98.7	96.3
4-Bromofluorobenzene	460-00-4	0.2	%	116	125	121	86.7	104
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	104	----	----	----	82.0
13C8-PFOA	----	0.0002	%	118	----	----	----	110

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH102_2.0	BUR_BH103_0.1	BUR_BH103_0.7	BUR_BH103_3.0	BUR_BH103_5.0
			Sampling date / time	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146476-010	ES2146476-012	ES2146476-013	ES2146476-016	ES2146476-018
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	15.4	18.3	23.4	13.8	13.6
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Asbestos Detected	1332-21-4	0.1	g/kg	----	No	----	----	----
Asbestos (Trace)	1332-21-4	5	Fibres	----	No	----	----	----
Asbestos Type	1332-21-4	-	--	----	-	----	----	----
Sample weight (dry)	----	0.01	g	----	62.9	----	----	----
APPROVED IDENTIFIER:	----	-	--	----	A. SMYLIE	----	----	----
Synthetic Mineral Fibre	----	0.1	g/kg	----	No	----	----	----
Organic Fibre	----	0.1	g/kg	----	No	----	----	----
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	<5	9	9	<5	5
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg	5	22	28	6	8
Copper	7440-50-8	5	mg/kg	10	127	15	17	67
Lead	7439-92-1	5	mg/kg	15	420	25	18	25
Nickel	7440-02-0	2	mg/kg	<2	12	6	<2	4
Zinc	7440-66-6	5	mg/kg	<5	373	105	<5	26
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	0.3	<0.1	<0.1	<0.1
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Total Chlordane (sum)	----	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BUR_BH102_2.0	BUR_BH103_0.1	BUR_BH103_0.7	BUR_BH103_3.0	BUR_BH103_5.0
				Sampling date / time	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00
Compound	CAS Number	LOR	Unit		ES2146476-010	ES2146476-012	ES2146476-013	ES2146476-016	ES2146476-018
					Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued									
Dieldrin	60-57-1	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDE	72-55-9	0.05	mg/kg		<0.05	**0.10**	<0.05	<0.05	<0.05
Endrin	72-20-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
beta-Endosulfan	33213-65-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
^ **Endosulfan (sum)**	115-29-7	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDD	72-54-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDT	50-29-3	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Endrin ketone	53494-70-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Methoxychlor	72-43-5	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
^ **Sum of Aldrin + Dieldrin**	309-00-2/60-57-1	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
^ **Sum of DDD + DDE + DDT**	72-54-8/72-55-9/50-2	0.05	mg/kg		<0.05	**0.10**	<0.05	<0.05	<0.05
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Demeton-S-methyl	919-86-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Monocrotophos	6923-22-4	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Dimethoate	60-51-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Diazinon	333-41-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Parathion-methyl	298-00-0	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	121-75-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Fenthion	55-38-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos	2921-88-2	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Parathion	56-38-2	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Pirimphos-ethyl	23505-41-1	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Chlorfenvinphos	470-90-6	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Bromophos-ethyl	4824-78-6	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Fenamiphos	22224-92-6	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Prothiofos	34643-46-4	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Ethion	563-12-2	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Carbophenothion	786-19-6	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Azinphos Methyl	86-50-0	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
EP074A: Monocyclic Aromatic Hydrocarbons									

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH102_2.0	BUR_BH103_0.1	BUR_BH103_0.7	BUR_BH103_3.0	BUR_BH103_5.0
			Sampling date / time	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146476-010	ES2146476-012	ES2146476-013	ES2146476-016	ES2146476-018
				Result	Result	Result	Result	Result
EP074A: Monocyclic Aromatic Hydrocarbons - Continued								
Styrene	100-42-5	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
Isopropylbenzene	98-82-8	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
n-Propylbenzene	103-65-1	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
sec-Butylbenzene	135-98-8	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
tert-Butylbenzene	98-06-6	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
p-Isopropyltoluene	99-87-6	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
n-Butylbenzene	104-51-8	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
EP074B: Oxygenated Compounds								
Vinyl Acetate	108-05-4	5	mg/kg	----	<5	<5	----	<5
2-Butanone (MEK)	78-93-3	5	mg/kg	----	<5	<5	----	<5
4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	----	<5	<5	----	<5
2-Hexanone (MBK)	591-78-6	5	mg/kg	----	<5	<5	----	<5
EP074C: Sulfonated Compounds								
Carbon disulfide	75-15-0	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
EP074D: Fumigants								
2.2-Dichloropropane	594-20-7	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
1.2-Dichloropropane	78-87-5	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
EP074E: Halogenated Aliphatic Compounds								
Dichlorodifluoromethane	75-71-8	5	mg/kg	----	<5	<5	----	<5
Chloromethane	74-87-3	5	mg/kg	----	<5	<5	----	<5
Vinyl chloride	75-01-4	5	mg/kg	----	<5	<5	----	<5
Bromomethane	74-83-9	5	mg/kg	----	<5	<5	----	<5
Chloroethane	75-00-3	5	mg/kg	----	<5	<5	----	<5
Trichlorofluoromethane	75-69-4	5	mg/kg	----	<5	<5	----	<5
1.1-Dichloroethene	75-35-4	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
Iodomethane	74-88-4	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
1.1-Dichloroethane	75-34-3	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	----	<0.5	<0.5	----	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH102_2.0	BUR_BH103_0.1	BUR_BH103_0.7	BUR_BH103_3.0	BUR_BH103_5.0
			Sampling date / time	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146476-010	ES2146476-012	ES2146476-013	ES2146476-016	ES2146476-018
				Result	Result	Result	Result	Result
EP074E: Halogenated Aliphatic Compounds - Continued								
1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
1.1-Dichloropropylene	563-58-6	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
Carbon Tetrachloride	56-23-5	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
1.2-Dichloroethane	107-06-2	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
Trichloroethene	79-01-6	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
Dibromomethane	74-95-3	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
1.3-Dichloropropane	142-28-9	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
Tetrachloroethene	127-18-4	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
Pentachloroethane	76-01-7	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
Hexachlorobutadiene	87-68-3	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
EP074F: Halogenated Aromatic Compounds								
Chlorobenzene	108-90-7	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
Bromobenzene	108-86-1	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
2-Chlorotoluene	95-49-8	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
4-Chlorotoluene	106-43-4	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
EP074G: Trihalomethanes								
Chloroform	67-66-3	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
Bromodichloromethane	75-27-4	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
Dibromochloromethane	124-48-1	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
Bromoform	75-25-2	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BUR_BH102_2.0	BUR_BH103_0.1	BUR_BH103_0.7	BUR_BH103_3.0	BUR_BH103_5.0
				Sampling date / time	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00
Compound	CAS Number	LOR	Unit		ES2146476-010	ES2146476-012	ES2146476-013	ES2146476-016	ES2146476-018
					Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued									
Acenaphthylene	208-96-8	0.5	mg/kg		<0.5	**1.6**	<0.5	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg		<0.5	**0.6**	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg		<0.5	**8.1**	<0.5	<0.5	<0.5
Anthracene	120-12-7	0.5	mg/kg		<0.5	**2.2**	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg		<0.5	**13.6**	<0.5	<0.5	<0.5
Pyrene	129-00-0	0.5	mg/kg		<0.5	**12.9**	<0.5	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg		<0.5	**7.2**	<0.5	<0.5	<0.5
Chrysene	218-01-9	0.5	mg/kg		<0.5	**6.3**	<0.5	<0.5	<0.5
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg		<0.5	**8.2**	<0.5	<0.5	<0.5
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg		<0.5	**3.2**	<0.5	<0.5	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg		<0.5	**6.5**	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		<0.5	**3.5**	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		<0.5	**0.8**	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		<0.5	**4.0**	<0.5	<0.5	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg		<0.5	**78.7**	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg		<0.5	**9.6**	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg		**0.6**	**9.6**	**0.6**	**0.6**	**0.6**
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg		**1.2**	**9.6**	**1.2**	**1.2**	**1.2**
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg		<10	<10	<10	<10	<10
C10 - C14 Fraction	----	50	mg/kg		<50	<50	<50	<50	<50
C15 - C28 Fraction	----	100	mg/kg		<100	**250**	<100	<100	<100
C29 - C36 Fraction	----	100	mg/kg		<100	**200**	<100	<100	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg		<50	**450**	<50	<50	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		<10	<10	<10	<10	<10
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg		<10	<10	<10	<10	<10
>C10 - C16 Fraction	----	50	mg/kg		<50	<50	<50	<50	<50
>C16 - C34 Fraction	----	100	mg/kg		<100	**380**	<100	<100	<100
>C34 - C40 Fraction	----	100	mg/kg		<100	**130**	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg		<50	**510**	<50	<50	<50
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		<50	<50	<50	<50	<50

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH102_2.0	BUR_BH103_0.1	BUR_BH103_0.7	BUR_BH103_3.0	BUR_BH103_5.0
			Sampling date / time	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146476-010	ES2146476-012	ES2146476-013	ES2146476-016	ES2146476-018
				Result	Result	Result	Result	Result
EP080: BTEXN								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ **Total Xylenes**	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ **Sum of BTEX**	----	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	91-20-3	1	mg/kg	<1	<1	<1	<1	<1
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	5.0	µg/kg	----	<5.0	----	----	<5.0
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	5.0	µg/kg	----	<5.0	----	----	<5.0
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	5.0	µg/kg	----	<5.0	----	----	<5.0
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	5.0	µg/kg	----	<5.0	----	----	<5.0
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	5.0	µg/kg	----	<5.0	----	----	<5.0
Perfluorodecane sulfonic acid (PFDS)	335-77-3	5.0	µg/kg	----	<5.0	----	----	<5.0
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	5	µg/kg	----	<5	----	----	<5
Perfluoropentanoic acid (PFPeA)	2706-90-3	5.0	µg/kg	----	<5.0	----	----	<5.0
Perfluorohexanoic acid (PFHxA)	307-24-4	5.0	µg/kg	----	<5.0	----	----	<5.0
Perfluoroheptanoic acid (PFHpA)	375-85-9	5.0	µg/kg	----	<5.0	----	----	<5.0
Perfluorooctanoic acid (PFOA)	335-67-1	5.0	µg/kg	----	<5.0	----	----	<5.0
Perfluorononanoic acid (PFNA)	375-95-1	5.0	µg/kg	----	<5.0	----	----	<5.0
Perfluorodecanoic acid (PFDA)	335-76-2	5.0	µg/kg	----	<5.0	----	----	<5.0
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	5.0	µg/kg	----	<5.0	----	----	<5.0
Perfluorododecanoic acid (PFDoDA)	307-55-1	5.0	µg/kg	----	<5.0	----	----	<5.0
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	5.0	µg/kg	----	<5.0	----	----	<5.0

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH102_2.0	BUR_BH103_0.1	BUR_BH103_0.7	BUR_BH103_3.0	BUR_BH103_5.0
			Sampling date / time	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146476-010	ES2146476-012	ES2146476-013	ES2146476-016	ES2146476-018
				Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	5.0	µg/kg	----	<5.0	----	----	<5.0
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	5.0	µg/kg	----	<5.0	----	----	<5.0
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	5.0	µg/kg	----	<5.0	----	----	<5.0
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	5.0	µg/kg	----	<5.0	----	----	<5.0
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	5.0	µg/kg	----	<5.0	----	----	<5.0
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	5.0	µg/kg	----	<5.0	----	----	<5.0
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	5.0	µg/kg	----	<5.0	----	----	<5.0
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	5.0	µg/kg	----	<5.0	----	----	<5.0
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	5.0	µg/kg	----	<5.0	----	----	<5.0
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	5.0	µg/kg	----	<5.0	----	----	<5.0
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	5.0	µg/kg	----	<5.0	----	----	<5.0
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	5.0	µg/kg	----	<5.0	----	----	<5.0
EP231P: PFAS Sums								
Sum of PFAS	----	5.0	µg/kg	----	<5.0	----	----	<5.0
Sum of PFHxS and PFOS	355-46-4/1763-23-1	5.0	µg/kg	----	<5.0	----	----	<5.0
Sum of PFAS (WA DER List)	----	5.0	µg/kg	----	<5.0	----	----	<5.0
EP066S: PCB Surrogate								
Decachlorobiphenyl	2051-24-3	0.1	%	**122**	**95.8**	**94.1**	**88.6**	**113**

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH102_2.0	BUR_BH103_0.1	BUR_BH103_0.7	BUR_BH103_3.0	BUR_BH103_5.0
			Sampling date / time	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146476-010	ES2146476-012	ES2146476-013	ES2146476-016	ES2146476-018
				Result	Result	Result	Result	Result
EP068S: Organochlorine Pesticide Surrogate								
Dibromo-DDE	21655-73-2	0.05	%	111	75.4	105	95.4	119
EP068T: Organophosphorus Pesticide Surrogate								
DEF	78-48-8	0.05	%	114	124	117	103	124
EP074S: VOC Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.5	%	----	129	120	----	110
Toluene-D8	2037-26-5	0.5	%	----	117	102	----	117
4-Bromofluorobenzene	460-00-4	0.5	%	----	105	99.0	----	101
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.5	%	90.6	78.3	88.6	88.4	93.8
2-Chlorophenol-D4	93951-73-6	0.5	%	94.5	87.0	94.9	94.5	100
2.4.6-Tribromophenol	118-79-6	0.5	%	90.6	81.1	87.2	85.2	89.2
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.5	%	105	96.1	104	103	109
Anthracene-d10	1719-06-8	0.5	%	98.5	84.7	95.3	93.5	101
4-Terphenyl-d14	1718-51-0	0.5	%	98.2	88.2	95.8	94.6	99.4
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	98.6	130	121	122	97.5
Toluene-D8	2037-26-5	0.2	%	124	116	101	125	122
4-Bromofluorobenzene	460-00-4	0.2	%	128	98.3	90.0	131	110
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	----	97.0	----	----	98.0
13C8-PFOA	----	0.0002	%	----	118	----	----	112

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH104_0.2	BUR_BH104_1.0	BUR_BH104_4.0	BUR_BH118_0.25	BUR_BH118_1.5
			Sampling date / time	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146476-019	ES2146476-020	ES2146476-023	ES2146476-025	ES2146476-027
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	22.2	26.6	9.6	18.2	25.3
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Asbestos Detected	1332-21-4	0.1	g/kg	No	----	----	No	----
Asbestos (Trace)	1332-21-4	5	Fibres	No	----	----	No	----
Asbestos Type	1332-21-4	-	--	-	----	----	-	----
Sample weight (dry)	----	0.01	g	114	----	----	74.8	----
APPROVED IDENTIFIER:	----	-	--	A. SMYLIE	----	----	A. SMYLIE	----
Synthetic Mineral Fibre	----	0.1	g/kg	No	----	----	No	----
Organic Fibre	----	0.1	g/kg	No	----	----	No	----
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	10	5	8	8	<5
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg	29	15	9	28	8
Copper	7440-50-8	5	mg/kg	28	11	42	11	14
Lead	7439-92-1	5	mg/kg	99	21	20	29	26
Nickel	7440-02-0	2	mg/kg	6	<2	16	10	<2
Zinc	7440-66-6	5	mg/kg	88	<5	92	12	<5
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Total Chlordane (sum)	----	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH104_0.2	BUR_BH104_1.0	BUR_BH104_4.0	BUR_BH118_0.25	BUR_BH118_1.5
			Sampling date / time	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146476-019	ES2146476-020	ES2146476-023	ES2146476-025	ES2146476-027
				Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued								
Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDE	72-55-9	0.05	mg/kg	**0.08**	<0.05	<0.05	<0.05	<0.05
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.05	mg/kg	**0.08**	<0.05	<0.05	<0.05	<0.05
EP068B: Organophosphorus Pesticides (OP)								
Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
EP074A: Monocyclic Aromatic Hydrocarbons								

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH104_0.2	BUR_BH104_1.0	BUR_BH104_4.0	BUR_BH118_0.25	BUR_BH118_1.5
			Sampling date / time	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146476-019	ES2146476-020	ES2146476-023	ES2146476-025	ES2146476-027
				Result	Result	Result	Result	Result
EP074A: Monocyclic Aromatic Hydrocarbons - Continued								
Styrene	100-42-5	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Isopropylbenzene	98-82-8	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
n-Propylbenzene	103-65-1	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
sec-Butylbenzene	135-98-8	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
tert-Butylbenzene	98-06-6	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
p-Isopropyltoluene	99-87-6	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
n-Butylbenzene	104-51-8	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
EP074B: Oxygenated Compounds								
Vinyl Acetate	108-05-4	5	mg/kg	<5	<5	----	<5	<5
2-Butanone (MEK)	78-93-3	5	mg/kg	<5	<5	----	<5	<5
4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	<5	<5	----	<5	<5
2-Hexanone (MBK)	591-78-6	5	mg/kg	<5	<5	----	<5	<5
EP074C: Sulfonated Compounds								
Carbon disulfide	75-15-0	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
EP074D: Fumigants								
2.2-Dichloropropane	594-20-7	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.2-Dichloropropane	78-87-5	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
EP074E: Halogenated Aliphatic Compounds								
Dichlorodifluoromethane	75-71-8	5	mg/kg	<5	<5	----	<5	<5
Chloromethane	74-87-3	5	mg/kg	<5	<5	----	<5	<5
Vinyl chloride	75-01-4	5	mg/kg	<5	<5	----	<5	<5
Bromomethane	74-83-9	5	mg/kg	<5	<5	----	<5	<5
Chloroethane	75-00-3	5	mg/kg	<5	<5	----	<5	<5
Trichlorofluoromethane	75-69-4	5	mg/kg	<5	<5	----	<5	<5
1.1-Dichloroethene	75-35-4	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Iodomethane	74-88-4	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.1-Dichloroethane	75-34-3	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH104_0.2	BUR_BH104_1.0	BUR_BH104_4.0	BUR_BH118_0.25	BUR_BH118_1.5
			Sampling date / time	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146476-019	ES2146476-020	ES2146476-023	ES2146476-025	ES2146476-027
				Result	Result	Result	Result	Result
EP074E: Halogenated Aliphatic Compounds - Continued								
1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.1-Dichloropropylene	563-58-6	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Carbon Tetrachloride	56-23-5	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.2-Dichloroethane	107-06-2	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Trichloroethene	79-01-6	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Dibromomethane	74-95-3	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.3-Dichloropropane	142-28-9	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Tetrachloroethene	127-18-4	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Pentachloroethane	76-01-7	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
EP074F: Halogenated Aromatic Compounds								
Chlorobenzene	108-90-7	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Bromobenzene	108-86-1	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
2-Chlorotoluene	95-49-8	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
4-Chlorotoluene	106-43-4	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
EP074G: Trihalomethanes								
Chloroform	67-66-3	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Bromodichloromethane	75-27-4	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Dibromochloromethane	124-48-1	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Bromoform	75-25-2	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH104_0.2	BUR_BH104_1.0	BUR_BH104_4.0	BUR_BH118_0.25	BUR_BH118_1.5
			Sampling date / time	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146476-019	ES2146476-020	ES2146476-023	ES2146476-025	ES2146476-027
				Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued								
Acenaphthylene	208-96-8	0.5	mg/kg	**0.7**	<0.5	<0.5	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	**4.3**	<0.5	<0.5	<0.5	<0.5
Anthracene	120-12-7	0.5	mg/kg	**1.0**	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	**5.9**	<0.5	<0.5	<0.5	**0.9**
Pyrene	129-00-0	0.5	mg/kg	**5.2**	<0.5	<0.5	<0.5	**0.8**
Benz(a)anthracene	56-55-3	0.5	mg/kg	**2.8**	<0.5	<0.5	<0.5	<0.5
Chrysene	218-01-9	0.5	mg/kg	**2.3**	<0.5	<0.5	<0.5	<0.5
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	**2.8**	<0.5	<0.5	<0.5	**0.6**
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	**1.2**	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg	**2.3**	<0.5	<0.5	<0.5	**0.5**
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	**1.2**	<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	**1.3**	<0.5	<0.5	<0.5	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	**31.0**	<0.5	<0.5	<0.5	**2.8**
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	**3.1**	<0.5	<0.5	<0.5	**0.6**
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	**3.4**	**0.6**	**0.6**	**0.6**	**0.9**
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	**3.6**	**1.2**	**1.2**	**1.2**	**1.2**
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	10	mg/kg	<10	<10	<10	<10	<10
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
C15 - C28 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
C29 - C36 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	<50	<50	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	<10	<10	<10
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	<10	<10	<10	<10
>C10 - C16 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
>C16 - C34 Fraction	----	100	mg/kg	**110**	<100	<100	<100	<100
>C34 - C40 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	**110**	<50	<50	<50	<50
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	<50	<50	<50	<50

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH104_0.2	BUR_BH104_1.0	BUR_BH104_4.0	BUR_BH118_0.25	BUR_BH118_1.5
			Sampling date / time	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146476-019	ES2146476-020	ES2146476-023	ES2146476-025	ES2146476-027
				Result	Result	Result	Result	Result
EP080: BTEXN								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ **Total Xylenes**	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ **Sum of BTEX**	----	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	91-20-3	1	mg/kg	<1	<1	<1	<1	<1
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	5	µg/kg	<5	----	<5	<5	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
Perfluorohexanoic acid (PFHxA)	307-24-4	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
Perfluorooctanoic acid (PFOA)	335-67-1	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
Perfluorononanoic acid (PFNA)	375-95-1	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
Perfluorodecanoic acid (PFDA)	335-76-2	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	5.0	µg/kg	<5.0	----	<5.0	<5.0	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH104_0.2	BUR_BH104_1.0	BUR_BH104_4.0	BUR_BH118_0.25	BUR_BH118_1.5
			Sampling date / time	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146476-019	ES2146476-020	ES2146476-023	ES2146476-025	ES2146476-027
				Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
EP231P: PFAS Sums								
Sum of PFAS	----	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
Sum of PFAS (WA DER List)	----	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
EP066S: PCB Surrogate								
Decachlorobiphenyl	2051-24-3	0.1	%	**104**	**107**	**106**	**115**	**89.5**

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH104_0.2	BUR_BH104_1.0	BUR_BH104_4.0	BUR_BH118_0.25	BUR_BH118_1.5
			Sampling date / time	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146476-019	ES2146476-020	ES2146476-023	ES2146476-025	ES2146476-027
				Result	Result	Result	Result	Result
EP068S: Organochlorine Pesticide Surrogate								
Dibromo-DDE	21655-73-2	0.05	%	110	116	95.7	120	95.5
EP068T: Organophosphorus Pesticide Surrogate								
DEF	78-48-8	0.05	%	102	86.5	66.0	97.9	80.2
EP074S: VOC Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.5	%	96.4	68.6	----	106	86.4
Toluene-D8	2037-26-5	0.5	%	90.8	109	----	108	93.2
4-Bromofluorobenzene	460-00-4	0.5	%	93.4	80.1	----	103	86.5
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.5	%	90.0	90.4	91.0	87.1	86.9
2-Chlorophenol-D4	93951-73-6	0.5	%	97.6	96.3	98.2	94.3	92.6
2.4.6-Tribromophenol	118-79-6	0.5	%	84.8	83.9	84.2	78.5	77.4
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.5	%	108	106	107	104	101
Anthracene-d10	1719-06-8	0.5	%	97.1	100	97.4	94.3	92.7
4-Terphenyl-d14	1718-51-0	0.5	%	96.7	102	99.7	94.7	91.7
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	96.8	72.3	103	93.6	76.1
Toluene-D8	2037-26-5	0.2	%	89.9	102	121	112	96.9
4-Bromofluorobenzene	460-00-4	0.2	%	87.5	85.4	120	120	93.0
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	92.5	----	76.0	85.0	----
13C8-PFOA	----	0.0002	%	110	----	110	108	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH119_0.25	BUR_BH119_1.0	D01_20211216	TSC1	----
			Sampling date / time	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	13-Dec-2021 00:00	----
Compound	CAS Number	LOR	Unit	ES2146476-029	ES2146476-030	ES2146476-031	ES2146476-036	--------
				Result	Result	Result	Result	----
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	26.3	21.8	20.3	----	----
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Asbestos Detected	1332-21-4	0.1	g/kg	No	----	----	----	----
Asbestos (Trace)	1332-21-4	5	Fibres	No	----	----	----	----
Asbestos Type	1332-21-4	-	--	-	----	----	----	----
Sample weight (dry)	----	0.01	g	66.6	----	----	----	----
APPROVED IDENTIFIER:	----	-	--	A. SMYLIE	----	----	----	----
Synthetic Mineral Fibre	----	0.1	g/kg	No	----	----	----	----
Organic Fibre	----	0.1	g/kg	No	----	----	----	----
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	13	6	9	----	----
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	----	----
Chromium	7440-47-3	2	mg/kg	29	12	28	----	----
Copper	7440-50-8	5	mg/kg	15	19	97	----	----
Lead	7439-92-1	5	mg/kg	26	19	379	----	----
Nickel	7440-02-0	2	mg/kg	6	<2	12	----	----
Zinc	7440-66-6	5	mg/kg	15	<5	302	----	----
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.2	----	----
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	<0.1	----	----
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
^ Total Chlordane (sum)	----	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	<0.05	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH119_0.25	BUR_BH119_1.0	D01_20211216	TSC1	----
			Sampling date / time	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	13-Dec-2021 00:00	----
Compound	CAS Number	LOR	Unit	ES2146476-029	ES2146476-030	ES2146476-031	ES2146476-036	--------
				Result	Result	Result	Result	----
EP068A: Organochlorine Pesticides (OC) - Continued								
Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	**0.10**	----	----
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
^ **Endosulfan (sum)**	115-29-7	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	<0.2	----	----
Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	<0.2	----	----
^ **Sum of Aldrin + Dieldrin**	309-00-2/60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
^ **Sum of DDD + DDE + DDT**	72-54-8/72-55-9/50-2	0.05	mg/kg	<0.05	<0.05	**0.10**	----	----
EP068B: Organophosphorus Pesticides (OP)								
Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	<0.2	----	----
Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	<0.2	----	----
Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	<0.2	----	----
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
EP074A: Monocyclic Aromatic Hydrocarbons								

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH119_0.25	BUR_BH119_1.0	D01_20211216	TSC1	----
			Sampling date / time	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	13-Dec-2021 00:00	----
Compound	CAS Number	LOR	Unit	ES2146476-029	ES2146476-030	ES2146476-031	ES2146476-036	--------
				Result	Result	Result	Result	----
EP074A: Monocyclic Aromatic Hydrocarbons - Continued								
Styrene	100-42-5	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Isopropylbenzene	98-82-8	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
n-Propylbenzene	103-65-1	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
sec-Butylbenzene	135-98-8	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
tert-Butylbenzene	98-06-6	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
p-Isopropyltoluene	99-87-6	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
n-Butylbenzene	104-51-8	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
EP074B: Oxygenated Compounds								
Vinyl Acetate	108-05-4	5	mg/kg	<5	<5	<5	----	----
2-Butanone (MEK)	78-93-3	5	mg/kg	<5	<5	<5	----	----
4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	<5	<5	<5	----	----
2-Hexanone (MBK)	591-78-6	5	mg/kg	<5	<5	<5	----	----
EP074C: Sulfonated Compounds								
Carbon disulfide	75-15-0	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
EP074D: Fumigants								
2.2-Dichloropropane	594-20-7	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
1.2-Dichloropropane	78-87-5	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
EP074E: Halogenated Aliphatic Compounds								
Dichlorodifluoromethane	75-71-8	5	mg/kg	<5	<5	<5	----	----
Chloromethane	74-87-3	5	mg/kg	<5	<5	<5	----	----
Vinyl chloride	75-01-4	5	mg/kg	<5	<5	<5	----	----
Bromomethane	74-83-9	5	mg/kg	<5	<5	<5	----	----
Chloroethane	75-00-3	5	mg/kg	<5	<5	<5	----	----
Trichlorofluoromethane	75-69-4	5	mg/kg	<5	<5	<5	----	----
1.1-Dichloroethene	75-35-4	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Iodomethane	74-88-4	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
1.1-Dichloroethane	75-34-3	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	<0.5	<0.5	<0.5	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH119_0.25	BUR_BH119_1.0	D01_20211216	TSC1	----
			Sampling date / time	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	13-Dec-2021 00:00	----
Compound	CAS Number	LOR	Unit	ES2146476-029	ES2146476-030	ES2146476-031	ES2146476-036	--------
				Result	Result	Result	Result	----
EP074E: Halogenated Aliphatic Compounds - Continued								
1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
1.1-Dichloropropylene	563-58-6	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Carbon Tetrachloride	56-23-5	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
1.2-Dichloroethane	107-06-2	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Trichloroethene	79-01-6	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Dibromomethane	74-95-3	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
1.3-Dichloropropane	142-28-9	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Tetrachloroethene	127-18-4	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Pentachloroethane	76-01-7	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
EP074F: Halogenated Aromatic Compounds								
Chlorobenzene	108-90-7	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Bromobenzene	108-86-1	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
2-Chlorotoluene	95-49-8	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
4-Chlorotoluene	106-43-4	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
EP074G: Trihalomethanes								
Chloroform	67-66-3	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Bromodichloromethane	75-27-4	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Dibromochloromethane	124-48-1	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Bromoform	75-25-2	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BUR_BH119_0.25	BUR_BH119_1.0	D01_20211216	TSC1	----
				Sampling date / time	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	13-Dec-2021 00:00	----
Compound	CAS Number	LOR	Unit		ES2146476-029	ES2146476-030	ES2146476-031	ES2146476-036	--------
					Result	Result	Result	Result	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued									
Acenaphthylene	208-96-8	0.5	mg/kg		<0.5	<0.5	**1.9**	----	----
Acenaphthene	83-32-9	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Fluorene	86-73-7	0.5	mg/kg		<0.5	<0.5	**0.6**	----	----
Phenanthrene	85-01-8	0.5	mg/kg		<0.5	<0.5	**8.5**	----	----
Anthracene	120-12-7	0.5	mg/kg		<0.5	<0.5	**2.3**	----	----
Fluoranthene	206-44-0	0.5	mg/kg		<0.5	<0.5	**15.2**	----	----
Pyrene	129-00-0	0.5	mg/kg		<0.5	<0.5	**14.5**	----	----
Benz(a)anthracene	56-55-3	0.5	mg/kg		<0.5	<0.5	**8.2**	----	----
Chrysene	218-01-9	0.5	mg/kg		<0.5	<0.5	**7.2**	----	----
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg		<0.5	<0.5	**9.1**	----	----
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg		<0.5	<0.5	**3.7**	----	----
Benzo(a)pyrene	50-32-8	0.5	mg/kg		<0.5	<0.5	**7.4**	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		<0.5	<0.5	**3.9**	----	----
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		<0.5	<0.5	**1.0**	----	----
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		<0.5	<0.5	**4.5**	----	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg		<0.5	<0.5	**88.0**	----	----
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg		<0.5	<0.5	**11.0**	----	----
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg		**0.6**	**0.6**	**11.0**	----	----
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg		**1.2**	**1.2**	**11.0**	----	----
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg		<10	<10	<10	----	----
C10 - C14 Fraction	----	50	mg/kg		<50	<50	<50	----	----
C15 - C28 Fraction	----	100	mg/kg		<100	<100	**260**	----	----
C29 - C36 Fraction	----	100	mg/kg		<100	<100	**210**	----	----
^ C10 - C36 Fraction (sum)	----	50	mg/kg		<50	<50	**470**	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		<10	<10	<10	----	----
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg		<10	<10	<10	----	----
>C10 - C16 Fraction	----	50	mg/kg		<50	<50	<50	----	----
>C16 - C34 Fraction	----	100	mg/kg		<100	<100	**390**	----	----
>C34 - C40 Fraction	----	100	mg/kg		<100	<100	**140**	----	----
^ >C10 - C40 Fraction (sum)	----	50	mg/kg		<50	<50	**530**	----	----
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		<50	<50	<50	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH119_0.25	BUR_BH119_1.0	D01_20211216	TSC1	----
			Sampling date / time	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	13-Dec-2021 00:00	----
Compound	CAS Number	LOR	Unit	ES2146476-029	ES2146476-030	ES2146476-031	ES2146476-036	--------
				Result	Result	Result	Result	----
EP080: BTEXN								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	----
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	**20.2**	----
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	**3.8**	----
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	<0.5	**20.0**	----
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	**8.4**	----
^ **Total Xylenes**	----	0.5	mg/kg	<0.5	<0.5	<0.5	**28.4**	----
^ **Sum of BTEX**	----	0.2	mg/kg	<0.2	<0.2	<0.2	**52.4**	----
Naphthalene	91-20-3	1	mg/kg	<1	<1	<1	**1**	----
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	5.0	µg/kg	<5.0	----	<5.0	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	5.0	µg/kg	<5.0	----	<5.0	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	5.0	µg/kg	<5.0	----	<5.0	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	5.0	µg/kg	<5.0	----	<5.0	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	5.0	µg/kg	<5.0	----	<5.0	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	5.0	µg/kg	<5.0	----	<5.0	----	----
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	5	µg/kg	<5	----	<5	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	5.0	µg/kg	<5.0	----	<5.0	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	5.0	µg/kg	<5.0	----	<5.0	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	5.0	µg/kg	<5.0	----	<5.0	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	5.0	µg/kg	<5.0	----	<5.0	----	----
Perfluorononanoic acid (PFNA)	375-95-1	5.0	µg/kg	<5.0	----	<5.0	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	5.0	µg/kg	<5.0	----	<5.0	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	5.0	µg/kg	<5.0	----	<5.0	----	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	5.0	µg/kg	<5.0	----	<5.0	----	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	5.0	µg/kg	<5.0	----	<5.0	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH119_0.25	BUR_BH119_1.0	D01_20211216	TSC1	----
			Sampling date / time	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	13-Dec-2021 00:00	----
Compound	CAS Number	LOR	Unit	ES2146476-029	ES2146476-030	ES2146476-031	ES2146476-036	--------
				Result	Result	Result	Result	----
EP231B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	5.0	µg/kg	<5.0	----	<5.0	----	----
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	5.0	µg/kg	<5.0	----	<5.0	----	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	5.0	µg/kg	<5.0	----	<5.0	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	5.0	µg/kg	<5.0	----	<5.0	----	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	5.0	µg/kg	<5.0	----	<5.0	----	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	5.0	µg/kg	<5.0	----	<5.0	----	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	5.0	µg/kg	<5.0	----	<5.0	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	5.0	µg/kg	<5.0	----	<5.0	----	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	5.0	µg/kg	<5.0	----	<5.0	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	5.0	µg/kg	<5.0	----	<5.0	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	5.0	µg/kg	<5.0	----	<5.0	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	5.0	µg/kg	<5.0	----	<5.0	----	----
EP231P: PFAS Sums								
Sum of PFAS	----	5.0	µg/kg	<5.0	----	<5.0	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	5.0	µg/kg	<5.0	----	<5.0	----	----
Sum of PFAS (WA DER List)	----	5.0	µg/kg	<5.0	----	<5.0	----	----
EP066S: PCB Surrogate								
Decachlorobiphenyl	2051-24-3	0.1	%	**94.6**	**85.0**	**106**	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH119_0.25	BUR_BH119_1.0	D01_20211216	TSC1	----
			Sampling date / time	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	13-Dec-2021 00:00	----
Compound	CAS Number	LOR	Unit	ES2146476-029	ES2146476-030	ES2146476-031	ES2146476-036	--------
				Result	Result	Result	Result	----
EP068S: Organochlorine Pesticide Surrogate								
Dibromo-DDE	21655-73-2	0.05	%	99.8	78.8	84.2	----	----
EP068T: Organophosphorus Pesticide Surrogate								
DEF	78-48-8	0.05	%	76.2	58.1	109	----	----
EP074S: VOC Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.5	%	105	98.5	130	----	----
Toluene-D8	2037-26-5	0.5	%	116	90.0	124	----	----
4-Bromofluorobenzene	460-00-4	0.5	%	107	100	116	----	----
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.5	%	90.1	82.9	88.1	----	----
2-Chlorophenol-D4	93951-73-6	0.5	%	94.0	89.0	95.2	----	----
2.4.6-Tribromophenol	118-79-6	0.5	%	81.0	72.3	85.5	----	----
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.5	%	105	97.8	106	----	----
Anthracene-d10	1719-06-8	0.5	%	96.4	87.8	92.3	----	----
4-Terphenyl-d14	1718-51-0	0.5	%	97.5	90.6	97.3	----	----
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	92.8	99.1	131	108	----
Toluene-D8	2037-26-5	0.2	%	121	88.9	123	110	----
4-Bromofluorobenzene	460-00-4	0.2	%	124	92.8	109	97.5	----
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	109	----	86.5	----	----
13C8-PFOA	----	0.0002	%	112	----	118	----	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	20211215_R01	20211216_R02	----	----	----
			Sampling date / time	15-Dec-2021 00:00	16-Dec-2021 00:00	----	----	----
Compound	CAS Number	LOR	Unit	ES2146476-005	ES2146476-033	--------	--------	--------
				Result	Result	----	----	----
EG020T: Total Metals by ICP-MS								
Arsenic	7440-38-2	0.001	mg/L	<0.001	<0.001	----	----	----
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	----	----	----
Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	----	----	----
Copper	7440-50-8	0.001	mg/L	<0.001	<0.001	----	----	----
Nickel	7440-02-0	0.001	mg/L	<0.001	<0.001	----	----	----
Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	----	----	----
Zinc	7440-66-6	0.005	mg/L	<0.005	<0.005	----	----	----
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	----	----	----
EP066: Polychlorinated Biphenyls (PCB)								
^ Total Polychlorinated biphenyls	----	1	µg/L	<1	<1	----	----	----
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.5	µg/L	<0.5	<0.5	----	----	----
Hexachlorobenzene (HCB)	118-74-1	0.5	µg/L	<0.5	<0.5	----	----	----
beta-BHC	319-85-7	0.5	µg/L	<0.5	<0.5	----	----	----
gamma-BHC	58-89-9	0.5	µg/L	<0.5	<0.5	----	----	----
delta-BHC	319-86-8	0.5	µg/L	<0.5	<0.5	----	----	----
Heptachlor	76-44-8	0.5	µg/L	<0.5	<0.5	----	----	----
Aldrin	309-00-2	0.5	µg/L	<0.5	<0.5	----	----	----
Heptachlor epoxide	1024-57-3	0.5	µg/L	<0.5	<0.5	----	----	----
trans-Chlordane	5103-74-2	0.5	µg/L	<0.5	<0.5	----	----	----
alpha-Endosulfan	959-98-8	0.5	µg/L	<0.5	<0.5	----	----	----
cis-Chlordane	5103-71-9	0.5	µg/L	<0.5	<0.5	----	----	----
Dieldrin	60-57-1	0.5	µg/L	<0.5	<0.5	----	----	----
4.4`-DDE	72-55-9	0.5	µg/L	<0.5	<0.5	----	----	----
Endrin	72-20-8	0.5	µg/L	<0.5	<0.5	----	----	----
beta-Endosulfan	33213-65-9	0.5	µg/L	<0.5	<0.5	----	----	----
4.4`-DDD	72-54-8	0.5	µg/L	<0.5	<0.5	----	----	----
Endrin aldehyde	7421-93-4	0.5	µg/L	<0.5	<0.5	----	----	----
Endosulfan sulfate	1031-07-8	0.5	µg/L	<0.5	<0.5	----	----	----
4.4`-DDT	50-29-3	2.0	µg/L	<2.0	<2.0	----	----	----
Endrin ketone	53494-70-5	0.5	µg/L	<0.5	<0.5	----	----	----
Methoxychlor	72-43-5	2.0	µg/L	<2.0	<2.0	----	----	----
^ Total Chlordane (sum)	----	0.5	µg/L	<0.5	<0.5	----	----	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	20211215_R01	20211216_R02	----	----	----
			Sampling date / time	15-Dec-2021 00:00	16-Dec-2021 00:00	----	----	----
Compound	CAS Number	LOR	Unit	ES2146476-005	ES2146476-033	--------	--------	--------
				Result	Result	----	----	----
EP068A: Organochlorine Pesticides (OC) - Continued								
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.5	µg/L	<0.5	<0.5	----	----	----
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.5	µg/L	<0.5	<0.5	----	----	----
EP068B: Organophosphorus Pesticides (OP)								
Dichlorvos	62-73-7	0.5	µg/L	<0.5	<0.5	----	----	----
Demeton-S-methyl	919-86-8	0.5	µg/L	<0.5	<0.5	----	----	----
Monocrotophos	6923-22-4	2.0	µg/L	<2.0	<2.0	----	----	----
Dimethoate	60-51-5	0.5	µg/L	<0.5	<0.5	----	----	----
Diazinon	333-41-5	0.5	µg/L	<0.5	<0.5	----	----	----
Chlorpyrifos-methyl	5598-13-0	0.5	µg/L	<0.5	<0.5	----	----	----
Parathion-methyl	298-00-0	2.0	µg/L	<2.0	<2.0	----	----	----
Malathion	121-75-5	0.5	µg/L	<0.5	<0.5	----	----	----
Fenthion	55-38-9	0.5	µg/L	<0.5	<0.5	----	----	----
Chlorpyrifos	2921-88-2	0.5	µg/L	<0.5	<0.5	----	----	----
Parathion	56-38-2	2.0	µg/L	<2.0	<2.0	----	----	----
Pirimphos-ethyl	23505-41-1	0.5	µg/L	<0.5	<0.5	----	----	----
Chlorfenvinphos	470-90-6	0.5	µg/L	<0.5	<0.5	----	----	----
Bromophos-ethyl	4824-78-6	0.5	µg/L	<0.5	<0.5	----	----	----
Fenamiphos	22224-92-6	0.5	µg/L	<0.5	<0.5	----	----	----
Prothiofos	34643-46-4	0.5	µg/L	<0.5	<0.5	----	----	----
Ethion	563-12-2	0.5	µg/L	<0.5	<0.5	----	----	----
Carbophenothion	786-19-6	0.5	µg/L	<0.5	<0.5	----	----	----
Azinphos Methyl	86-50-0	0.5	µg/L	<0.5	<0.5	----	----	----
EP074A: Monocyclic Aromatic Hydrocarbons								
Styrene	100-42-5	5	µg/L	<5	<5	----	----	----
Isopropylbenzene	98-82-8	5	µg/L	<5	<5	----	----	----
n-Propylbenzene	103-65-1	5	µg/L	<5	<5	----	----	----
1.3.5-Trimethylbenzene	108-67-8	5	µg/L	<5	<5	----	----	----
sec-Butylbenzene	135-98-8	5	µg/L	<5	<5	----	----	----
1.2.4-Trimethylbenzene	95-63-6	5	µg/L	<5	<5	----	----	----
tert-Butylbenzene	98-06-6	5	µg/L	<5	<5	----	----	----
p-Isopropyltoluene	99-87-6	5	µg/L	<5	<5	----	----	----
n-Butylbenzene	104-51-8	5	µg/L	<5	<5	----	----	----
EP074B: Oxygenated Compounds								

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	20211215_R01	20211216_R02	----	----	----
			Sampling date / time	15-Dec-2021 00:00	16-Dec-2021 00:00	----	----	----
Compound	CAS Number	LOR	Unit	ES2146476-005	ES2146476-033	--------	--------	--------
				Result	Result	----	----	----
EP074B: Oxygenated Compounds - Continued								
Vinyl Acetate	108-05-4	50	µg/L	<50	<50	----	----	----
2-Butanone (MEK)	78-93-3	50	µg/L	<50	<50	----	----	----
4-Methyl-2-pentanone (MIBK)	108-10-1	50	µg/L	<50	<50	----	----	----
2-Hexanone (MBK)	591-78-6	50	µg/L	<50	<50	----	----	----
EP074C: Sulfonated Compounds								
Carbon disulfide	75-15-0	5	µg/L	<5	<5	----	----	----
EP074D: Fumigants								
2.2-Dichloropropane	594-20-7	5	µg/L	<5	<5	----	----	----
1.2-Dichloropropane	78-87-5	5	µg/L	<5	<5	----	----	----
cis-1.3-Dichloropropylene	10061-01-5	5	µg/L	<5	<5	----	----	----
trans-1.3-Dichloropropylene	10061-02-6	5	µg/L	<5	<5	----	----	----
1.2-Dibromoethane (EDB)	106-93-4	5	µg/L	<5	<5	----	----	----
EP074E: Halogenated Aliphatic Compounds								
Dichlorodifluoromethane	75-71-8	50	µg/L	<50	<50	----	----	----
Chloromethane	74-87-3	50	µg/L	<50	<50	----	----	----
Vinyl chloride	75-01-4	50	µg/L	<50	<50	----	----	----
Bromomethane	74-83-9	50	µg/L	<50	<50	----	----	----
Chloroethane	75-00-3	50	µg/L	<50	<50	----	----	----
Trichlorofluoromethane	75-69-4	50	µg/L	<50	<50	----	----	----
1.1-Dichloroethene	75-35-4	5	µg/L	<5	<5	----	----	----
Iodomethane	74-88-4	5	µg/L	<5	<5	----	----	----
trans-1.2-Dichloroethene	156-60-5	5	µg/L	<5	<5	----	----	----
1.1-Dichloroethane	75-34-3	5	µg/L	<5	<5	----	----	----
cis-1.2-Dichloroethene	156-59-2	5	µg/L	<5	<5	----	----	----
1.1.1-Trichloroethane	71-55-6	5	µg/L	<5	<5	----	----	----
1.1-Dichloropropylene	563-58-6	5	µg/L	<5	<5	----	----	----
Carbon Tetrachloride	56-23-5	5	µg/L	<5	<5	----	----	----
1.2-Dichloroethane	107-06-2	5	µg/L	<5	<5	----	----	----
Trichloroethene	79-01-6	5	µg/L	<5	<5	----	----	----
Dibromomethane	74-95-3	5	µg/L	<5	<5	----	----	----
1.1.2-Trichloroethane	79-00-5	5	µg/L	<5	<5	----	----	----
1.3-Dichloropropane	142-28-9	5	µg/L	<5	<5	----	----	----
Tetrachloroethene	127-18-4	5	µg/L	<5	<5	----	----	----
1.1.1.2-Tetrachloroethane	630-20-6	5	µg/L	<5	<5	----	----	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	20211215_R01	20211216_R02	----	----	----
			Sampling date / time	15-Dec-2021 00:00	16-Dec-2021 00:00	----	----	----
Compound	CAS Number	LOR	Unit	ES2146476-005	ES2146476-033	--------	--------	--------
				Result	Result	----	----	----
EP074E: Halogenated Aliphatic Compounds - Continued								
trans-1.4-Dichloro-2-butene	110-57-6	5	µg/L	<5	<5	----	----	----
cis-1.4-Dichloro-2-butene	1476-11-5	5	µg/L	<5	<5	----	----	----
1.1.2.2-Tetrachloroethane	79-34-5	5	µg/L	<5	<5	----	----	----
1.2.3-Trichloropropane	96-18-4	5	µg/L	<5	<5	----	----	----
Pentachloroethane	76-01-7	5	µg/L	<5	<5	----	----	----
1.2-Dibromo-3-chloropropane	96-12-8	5	µg/L	<5	<5	----	----	----
Hexachlorobutadiene	87-68-3	5	µg/L	<5	<5	----	----	----
EP074F: Halogenated Aromatic Compounds								
Chlorobenzene	108-90-7	5	µg/L	<5	<5	----	----	----
Bromobenzene	108-86-1	5	µg/L	<5	<5	----	----	----
2-Chlorotoluene	95-49-8	5	µg/L	<5	<5	----	----	----
4-Chlorotoluene	106-43-4	5	µg/L	<5	<5	----	----	----
1.3-Dichlorobenzene	541-73-1	5	µg/L	<5	<5	----	----	----
1.4-Dichlorobenzene	106-46-7	5	µg/L	<5	<5	----	----	----
1.2-Dichlorobenzene	95-50-1	5	µg/L	<5	<5	----	----	----
1.2.4-Trichlorobenzene	120-82-1	5	µg/L	<5	<5	----	----	----
1.2.3-Trichlorobenzene	87-61-6	5	µg/L	<5	<5	----	----	----
EP074G: Trihalomethanes								
Chloroform	67-66-3	5	µg/L	<5	<5	----	----	----
Bromodichloromethane	75-27-4	5	µg/L	<5	<5	----	----	----
Dibromochloromethane	124-48-1	5	µg/L	<5	<5	----	----	----
Bromoform	75-25-2	5	µg/L	<5	<5	----	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	1.0	µg/L	<1.0	<1.0	----	----	----
Acenaphthylene	208-96-8	1.0	µg/L	<1.0	<1.0	----	----	----
Acenaphthene	83-32-9	1.0	µg/L	<1.0	<1.0	----	----	----
Fluorene	86-73-7	1.0	µg/L	<1.0	<1.0	----	----	----
Phenanthrene	85-01-8	1.0	µg/L	<1.0	<1.0	----	----	----
Anthracene	120-12-7	1.0	µg/L	<1.0	<1.0	----	----	----
Fluoranthene	206-44-0	1.0	µg/L	<1.0	<1.0	----	----	----
Pyrene	129-00-0	1.0	µg/L	<1.0	<1.0	----	----	----
Benz(a)anthracene	56-55-3	1.0	µg/L	<1.0	<1.0	----	----	----
Chrysene	218-01-9	1.0	µg/L	<1.0	<1.0	----	----	----
Benzo(b+j)fluoranthene	205-99-2 205-82-3	1.0	µg/L	<1.0	<1.0	----	----	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	20211215_R01	20211216_R02	----	----	----
			Sampling date / time	15-Dec-2021 00:00	16-Dec-2021 00:00	----	----	----
Compound	CAS Number	LOR	Unit	ES2146476-005	ES2146476-033	--------	--------	--------
				Result	Result	----	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued								
Benzo(k)fluoranthene	207-08-9	1.0	µg/L	<1.0	<1.0	----	----	----
Benzo(a)pyrene	50-32-8	0.5	µg/L	<0.5	<0.5	----	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	1.0	µg/L	<1.0	<1.0	----	----	----
Dibenz(a.h)anthracene	53-70-3	1.0	µg/L	<1.0	<1.0	----	----	----
Benzo(g.h.i)perylene	191-24-2	1.0	µg/L	<1.0	<1.0	----	----	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	µg/L	<0.5	<0.5	----	----	----
^ Benzo(a)pyrene TEQ (zero)	----	0.5	µg/L	<0.5	<0.5	----	----	----
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	20	µg/L	<20	<20	----	----	----
C10 - C14 Fraction	----	50	µg/L	<50	<50	----	----	----
C15 - C28 Fraction	----	100	µg/L	<100	<100	----	----	----
C29 - C36 Fraction	----	50	µg/L	<50	<50	----	----	----
^ C10 - C36 Fraction (sum)	----	50	µg/L	<50	<50	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	20	µg/L	<20	<20	----	----	----
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	µg/L	<20	<20	----	----	----
>C10 - C16 Fraction	----	100	µg/L	<100	<100	----	----	----
>C16 - C34 Fraction	----	100	µg/L	<100	<100	----	----	----
>C34 - C40 Fraction	----	100	µg/L	<100	<100	----	----	----
^ >C10 - C40 Fraction (sum)	----	100	µg/L	<100	<100	----	----	----
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	100	µg/L	<100	<100	----	----	----
EP080: BTEXN								
Benzene	71-43-2	1	µg/L	<1	<1	----	----	----
Toluene	108-88-3	2	µg/L	<2	<2	----	----	----
Ethylbenzene	100-41-4	2	µg/L	<2	<2	----	----	----
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	<2	----	----	----
ortho-Xylene	95-47-6	2	µg/L	<2	<2	----	----	----
^ Total Xylenes	----	2	µg/L	<2	<2	----	----	----
^ Sum of BTEX	----	1	µg/L	<1	<1	----	----	----
Naphthalene	91-20-3	5	µg/L	<5	<5	----	----	----
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	----	----	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	20211215_R01	20211216_R02	----	----	----
				Sampling date / time	15-Dec-2021 00:00	16-Dec-2021 00:00	----	----	----
Compound	CAS Number	LOR	Unit		ES2146476-005	ES2146476-033	--------	--------	--------
					Result	Result	----	----	----
EP231A: Perfluoroalkyl Sulfonic Acids - Continued									
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L		<0.02	<0.02	----	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L		<0.01	<0.01	----	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L		<0.02	<0.02	----	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L		<0.01	<0.01	----	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L		<0.02	<0.02	----	----	----
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L		<0.1	<0.1	----	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L		<0.02	<0.02	----	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L		<0.02	<0.02	----	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L		<0.02	<0.02	----	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L		<0.01	<0.01	----	----	----
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L		<0.02	<0.02	----	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L		<0.02	<0.02	----	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L		<0.02	<0.02	----	----	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L		<0.02	<0.02	----	----	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L		<0.02	<0.02	----	----	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L		<0.05	<0.05	----	----	----
EP231C: Perfluoroalkyl Sulfonamides									
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L		<0.02	<0.02	----	----	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L		<0.05	<0.05	----	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L		<0.05	<0.05	----	----	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L		<0.05	<0.05	----	----	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	20211215_R01	20211216_R02	----	----	----
				Sampling date / time	15-Dec-2021 00:00	16-Dec-2021 00:00	----	----	----
Compound	CAS Number	LOR	Unit		ES2146476-005	ES2146476-033	--------	--------	--------
					Result	Result	----	----	----
EP231C: Perfluoroalkyl Sulfonamides - Continued									
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L		<0.05	<0.05	----	----	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L		<0.02	<0.02	----	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L		<0.02	<0.02	----	----	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L		<0.05	<0.05	----	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L		<0.05	<0.05	----	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L		<0.05	<0.05	----	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L		<0.05	<0.05	----	----	----
EP231P: PFAS Sums									
Sum of PFAS	----	0.01	µg/L		<0.01	<0.01	----	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L		<0.01	<0.01	----	----	----
Sum of PFAS (WA DER List)	----	0.01	µg/L		<0.01	<0.01	----	----	----
EP066S: PCB Surrogate									
Decachlorobiphenyl	2051-24-3	1	%		**73.0**	**72.2**	----	----	----
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.5	%		**70.8**	**97.6**	----	----	----
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.5	%		**70.4**	**92.1**	----	----	----
EP074S: VOC Surrogates									
1.2-Dichloroethane-D4	17060-07-0	5	%		**83.9**	**92.5**	----	----	----
Toluene-D8	2037-26-5	5	%		**94.5**	**108**	----	----	----
4-Bromofluorobenzene	460-00-4	5	%		**85.4**	**98.0**	----	----	----
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	1.0	%		**19.1**	**27.5**	----	----	----
2-Chlorophenol-D4	93951-73-6	1.0	%		**44.0**	**62.1**	----	----	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	20211215_R01	20211216_R02	----	----	----
				Sampling date / time	15-Dec-2021 00:00	16-Dec-2021 00:00	----	----	----
Compound	CAS Number	LOR	Unit		ES2146476-005	ES2146476-033	--------	--------	--------
					Result	Result	----	----	----
EP075(SIM)S: Phenolic Compound Surrogates - Continued									
2.4.6-Tribromophenol	118-79-6	1.0	%		32.4	51.3	----	----	----
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	1.0	%		66.5	86.5	----	----	----
Anthracene-d10	1719-06-8	1.0	%		71.0	77.4	----	----	----
4-Terphenyl-d14	1718-51-0	1.0	%		79.6	90.5	----	----	----
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	2	%		98.6	111	----	----	----
Toluene-D8	2037-26-5	2	%		84.7	97.1	----	----	----
4-Bromofluorobenzene	460-00-4	2	%		82.9	95.4	----	----	----
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.02	%		91.3	88.8	----	----	----
13C8-PFOA	----	0.02	%		97.2	95.7	----	----	----

Analytical Results

Descriptive Results

Sub-Matrix: **SOIL**

Method: Compound	Sample ID - Sampling date / time	Analytical Results
EA200: AS 4964 - 2004 Identification of Asbestos in Soils		
EA200: Description	BUR_BH105_0.1 - 15-Dec-2021 00:00	Soil sample.
EA200: Description	BUR_BH103_0.1 - 16-Dec-2021 00:00	Soil sample.
EA200: Description	BUR_BH104_0.2 - 16-Dec-2021 00:00	Soil sample.
EA200: Description	BUR_BH118_0.25 - 16-Dec-2021 00:00	Soil sample.
EA200: Description	BUR_BH119_0.25 - 16-Dec-2021 00:00	Soil sample.

Surrogate Control Limits

Sub-Matrix: **SOIL**

Compound	CAS Number	Recovery Limits (%) Low	High
EP066S: PCB Surrogate			
Decachlorobiphenyl	2051-24-3	39	149
EP068S: Organochlorine Pesticide Surrogate			
Dibromo-DDE	21655-73-2	49	147
EP068T: Organophosphorus Pesticide Surrogate			
DEF	78-48-8	35	143
EP074S: VOC Surrogates			
1.2-Dichloroethane-D4	17060-07-0	64	130
Toluene-D8	2037-26-5	66	136
4-Bromofluorobenzene	460-00-4	60	122
EP075(SIM)S: Phenolic Compound Surrogates			
Phenol-d6	13127-88-3	63	123
2-Chlorophenol-D4	93951-73-6	66	122
2.4.6-Tribromophenol	118-79-6	40	138
EP075(SIM)T: PAH Surrogates			
2-Fluorobiphenyl	321-60-8	70	122
Anthracene-d10	1719-06-8	66	128
4-Terphenyl-d14	1718-51-0	65	129
EP080S: TPH(V)/BTEX Surrogates			
1.2-Dichloroethane-D4	17060-07-0	73	133
Toluene-D8	2037-26-5	74	132
4-Bromofluorobenzene	460-00-4	72	130
EP231S: PFAS Surrogate			
13C4-PFOS	----	60	120
13C8-PFOA	----	60	120

Sub-Matrix: **WATER**

Compound	CAS Number	Recovery Limits (%) Low	High
EP066S: PCB Surrogate			
Decachlorobiphenyl	2051-24-3	45	134
EP068S: Organochlorine Pesticide Surrogate			
Dibromo-DDE	21655-73-2	67	111
EP068T: Organophosphorus Pesticide Surrogate			
DEF	78-48-8	67	111
EP074S: VOC Surrogates			
1.2-Dichloroethane-D4	17060-07-0	78	133
Toluene-D8	2037-26-5	79	129
4-Bromofluorobenzene	460-00-4	81	124

Sub-Matrix: **WATER**		Recovery Limits (%)	
Compound	*CAS Number*	*Low*	*High*
EP075(SIM)S: Phenolic Compound Surrogates			
Phenol-d6	13127-88-3	10	44
2-Chlorophenol-D4	93951-73-6	14	94
2.4.6-Tribromophenol	118-79-6	17	125
EP075(SIM)T: PAH Surrogates			
2-Fluorobiphenyl	321-60-8	20	104
Anthracene-d10	1719-06-8	27	113
4-Terphenyl-d14	1718-51-0	32	112
EP080S: TPH(V)/BTEX Surrogates			
1.2-Dichloroethane-D4	17060-07-0	71	137
Toluene-D8	2037-26-5	79	131
4-Bromofluorobenzene	460-00-4	70	128
EP231S: PFAS Surrogate			
13C4-PFOS	----	60	120
13C8-PFOA	----	60	120

Inter-Laboratory Testing

Analysis conducted by ALS Newcastle, NATA accreditation no. 825, site no. 1656 (Chemistry) 9854 (Biology).

(SOIL) EA200: AS 4964 - 2004 Identification of Asbestos in Soils

QUALITY CONTROL REPORT

Work Order	: **ES2146476**	Page	: 1 of 33
Amendment	: **1**		
Client	: **ENVIRONMENTAL RESOURCES MANAGEMENT (ERM)**	Laboratory	: Environmental Division Sydney
Contact	: MS JESSICA LAWRENCE	Contact	: Customer Services ES
Address	: LEVEL 15 309 KENT STREET SYDNEY NSW AUSTRALIA 2000	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: +61 02 8584 8888	Telephone	: +61-2-8784 8555
Project	: 0577577-Burwood	Date Samples Received	: 17-Dec-2021
Order number	: ----	Date Analysis Commenced	: 20-Dec-2021
C-O-C number	: ----	Issue Date	: 02-Feb-2022
Sampler	: MADUSHANI BOLONGHE, TRISTAN RODRIGUES		
Site	: ----		
Quote number	: EN/114		
No. of samples received	: 37		
No. of samples analysed	: 21		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Alana Smylie	Asbestos Identifier	Newcastle - Asbestos, Mayfield West, NSW
Edwandy Fadjar	Organic Coordinator	Sydney Organics, Smithfield, NSW
Franco Lentini	LCMS Coordinator	Sydney Inorganics, Smithfield, NSW
Franco Lentini	LCMS Coordinator	Sydney Organics, Smithfield, NSW
Ivan Taylor	Analyst	Sydney Inorganics, Smithfield, NSW
Wisam Marassa	Inorganics Coordinator	Sydney Inorganics, Smithfield, NSW

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis. Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Key : Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot
CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
RPD = Relative Percentage Difference
# = Indicates failed QC

Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 4093741)									
ES2146476-001	BUR_BH105_0.1	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	<2	3	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	6	9	31.9	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	80	86	7.2	0% - 50%
ES2146476-023	BUR_BH104_4.0	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	9	8	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	16	10	44.7	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	8	9	19.1	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	42	35	18.5	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	20	24	16.1	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	92	62	37.9	0% - 50%
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 4093748)									
ES2145652-003	Anonymous	EA055: Moisture Content	----	0.1	%	30.1	28.1	7.0	0% - 20%
ES2146476-010	BUR_BH102_2.0	EA055: Moisture Content	----	0.1	%	15.4	15.9	3.0	0% - 50%
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 4093749)									
ES2146476-027	BUR_BH118_1.5	EA055: Moisture Content	----	0.1	%	25.3	24.8	2.1	0% - 20%
ES2146476-031	D01_20211216	EA055: Moisture Content	----	0.1	%	20.3	21.0	3.1	0% - 20%
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 4093744)									
ES2146476-001	BUR_BH105_0.1	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
ES2146476-023	BUR_BH104_4.0	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP066: Polychlorinated Biphenyls (PCB) (QC Lot: 4088004)									
ES2146476-001	BUR_BH105_0.1	EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
ES2146476-023	BUR_BH104_4.0	EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP068A: Organochlorine Pesticides (OC) (QC Lot: 4088003)									
ES2146476-001	BUR_BH105_0.1	EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
ES2146476-023	BUR_BH104_4.0	EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP068A: Organochlorine Pesticides (OC) (QC Lot: 4088003) - continued									
ES2146476-023	BUR_BH104_4.0	EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
EP068B: Organophosphorus Pesticides (OP) (QC Lot: 4088003)									
ES2146476-001	BUR_BH105_0.1	EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
ES2146476-023	BUR_BH104_4.0	EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP068B: Organophosphorus Pesticides (OP) (QC Lot: 4088003) - continued									
ES2146476-023	BUR_BH104_4.0	EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
EP074A: Monocyclic Aromatic Hydrocarbons (QC Lot: 4089907)									
ES2146476-001	BUR_BH105_0.1	EP074: Styrene	100-42-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Isopropylbenzene	98-82-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: n-Propylbenzene	103-65-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: sec-Butylbenzene	135-98-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: tert-Butylbenzene	98-06-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: p-Isopropyltoluene	99-87-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: n-Butylbenzene	104-51-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
ES2146476-030	BUR_BH119_1.0	EP074: Styrene	100-42-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Isopropylbenzene	98-82-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: n-Propylbenzene	103-65-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: sec-Butylbenzene	135-98-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: tert-Butylbenzene	98-06-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: p-Isopropyltoluene	99-87-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: n-Butylbenzene	104-51-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP074B: Oxygenated Compounds (QC Lot: 4089907)									
ES2146476-001	BUR_BH105_0.1	EP074: Vinyl Acetate	108-05-4	5	mg/kg	<5	<5	0.0	No Limit
		EP074: 2-Butanone (MEK)	78-93-3	5	mg/kg	<5	<5	0.0	No Limit
		EP074: 4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	<5	<5	0.0	No Limit
		EP074: 2-Hexanone (MBK)	591-78-6	5	mg/kg	<5	<5	0.0	No Limit
ES2146476-030	BUR_BH119_1.0	EP074: Vinyl Acetate	108-05-4	5	mg/kg	<5	<5	0.0	No Limit
		EP074: 2-Butanone (MEK)	78-93-3	5	mg/kg	<5	<5	0.0	No Limit
		EP074: 4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	<5	<5	0.0	No Limit
		EP074: 2-Hexanone (MBK)	591-78-6	5	mg/kg	<5	<5	0.0	No Limit
EP074C: Sulfonated Compounds (QC Lot: 4089907)									
ES2146476-001	BUR_BH105_0.1	EP074: Carbon disulfide	75-15-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
ES2146476-030	BUR_BH119_1.0	EP074: Carbon disulfide	75-15-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP074D: Fumigants (QC Lot: 4089907)									
ES2146476-001	BUR_BH105_0.1	EP074: 2.2-Dichloropropane	594-20-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dichloropropane	78-87-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP074D: Fumigants (QC Lot: 4089907) - continued									
ES2146476-001	BUR_BH105_0.1	EP074: trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
ES2146476-030	BUR_BH119_1.0	EP074: 2.2-Dichloropropane	594-20-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dichloropropane	78-87-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP074E: Halogenated Aliphatic Compounds (QC Lot: 4089907)									
ES2146476-001	BUR_BH105_0.1	EP074: 1.1-Dichloroethene	75-35-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Iodomethane	74-88-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1-Dichloroethane	75-34-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1-Dichloropropylene	563-58-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Carbon Tetrachloride	56-23-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dichloroethane	107-06-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Trichloroethene	79-01-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Dibromomethane	74-95-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.3-Dichloropropane	142-28-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Tetrachloroethene	127-18-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Pentachloroethane	76-01-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Dichlorodifluoromethane	75-71-8	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Chloromethane	74-87-3	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Vinyl chloride	75-01-4	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Bromomethane	74-83-9	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Chloroethane	75-00-3	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Trichlorofluoromethane	75-69-4	5	mg/kg	<5	<5	0.0	No Limit
ES2146476-030	BUR_BH119_1.0	EP074: 1.1-Dichloroethene	75-35-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Iodomethane	74-88-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1-Dichloroethane	75-34-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP074E: Halogenated Aliphatic Compounds (QC Lot: 4089907) - continued									
ES2146476-030	BUR_BH119_1.0	EP074: cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1-Dichloropropylene	563-58-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Carbon Tetrachloride	56-23-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dichloroethane	107-06-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Trichloroethene	79-01-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Dibromomethane	74-95-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.3-Dichloropropane	142-28-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Tetrachloroethene	127-18-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Pentachloroethane	76-01-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Dichlorodifluoromethane	75-71-8	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Chloromethane	74-87-3	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Vinyl chloride	75-01-4	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Bromomethane	74-83-9	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Chloroethane	75-00-3	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Trichlorofluoromethane	75-69-4	5	mg/kg	<5	<5	0.0	No Limit
EP074F: Halogenated Aromatic Compounds (QC Lot: 4089907)									
ES2146476-001	BUR_BH105_0.1	EP074: Chlorobenzene	108-90-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Bromobenzene	108-86-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 2-Chlorotoluene	95-49-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 4-Chlorotoluene	106-43-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
ES2146476-030	BUR_BH119_1.0	EP074: Chlorobenzene	108-90-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Bromobenzene	108-86-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 2-Chlorotoluene	95-49-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 4-Chlorotoluene	106-43-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP074F: Halogenated Aromatic Compounds (QC Lot: 4089907) - continued									
ES2146476-030	BUR_BH119_1.0	EP074: 1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP074G: Trihalomethanes (QC Lot: 4089907)									
ES2146476-001	BUR_BH105_0.1	EP074: Chloroform	67-66-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Bromodichloromethane	75-27-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Dibromochloromethane	124-48-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Bromoform	75-25-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
ES2146476-030	BUR_BH119_1.0	EP074: Chloroform	67-66-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Bromodichloromethane	75-27-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Dibromochloromethane	124-48-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Bromoform	75-25-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 4088002)									
ES2146476-001	BUR_BH105_0.1	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
ES2146476-023	BUR_BH104_4.0	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 4088002) - continued									
ES2146476-023	BUR_BH104_4.0	EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4088001)									
ES2146476-001	BUR_BH105_0.1	EP071: C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
ES2146476-023	BUR_BH104_4.0	EP071: C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4089906)									
ES2146476-001	BUR_BH105_0.1	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
ES2146476-030	BUR_BH119_1.0	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4088001)									
ES2146476-001	BUR_BH105_0.1	EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
ES2146476-023	BUR_BH104_4.0	EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4089906)									
ES2146476-001	BUR_BH105_0.1	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
ES2146476-030	BUR_BH119_1.0	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
EP080: BTEXN (QC Lot: 4089906)									
ES2146476-001	BUR_BH105_0.1	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP080: BTEXN (QC Lot: 4089906) - continued									
ES2146476-001	BUR_BH105_0.1	EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
ES2146476-030	BUR_BH119_1.0	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 4087872)									
ES2145948-003	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
ES2146348-008	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4087872)									
ES2145948-003	Anonymous	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	<0.001	0.0	No Limit
ES2146348-008	Anonymous	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4087872) - continued									
ES2146348-008	Anonymous	EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	<0.001	0.0	No Limit
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4087872)									
ES2145948-003	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
ES2146348-008	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4087872)									
ES2145948-003	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit

Sub-Matrix: **SOIL**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4087872) - continued									
ES2146348-008	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit

Sub-Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EG020T: Total Metals by ICP-MS (QC Lot: 4092227)									
ES2145725-021	Anonymous	EG020A-T: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
		EG020A-T: Arsenic	7440-38-2	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Copper	7440-50-8	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Nickel	7440-02-0	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Zinc	7440-66-6	0.005	mg/L	<0.005	<0.005	0.0	No Limit
ES2146442-002	Anonymous	EG020A-T: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
		EG020A-T: Arsenic	7440-38-2	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Copper	7440-50-8	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Nickel	7440-02-0	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Zinc	7440-66-6	0.005	mg/L	<0.005	<0.005	0.0	No Limit
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 4092248)									
ES2146119-001	Anonymous	EG035T: Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
ES2146288-003	Anonymous	EG035T: Mercury	7439-97-6	0.0001	mg/L	0.0007	0.0007	0.0	No Limit
EP074A: Monocyclic Aromatic Hydrocarbons (QC Lot: 4096752)									
ES2146476-005	20211215_R01	EP074: Styrene	100-42-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: Isopropylbenzene	98-82-8	5	µg/L	<5	<5	0.0	No Limit
		EP074: n-Propylbenzene	103-65-1	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.3.5-Trimethylbenzene	108-67-8	5	µg/L	<5	<5	0.0	No Limit
		EP074: sec-Butylbenzene	135-98-8	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2.4-Trimethylbenzene	95-63-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: tert-Butylbenzene	98-06-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: p-Isopropyltoluene	99-87-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: n-Butylbenzene	104-51-8	5	µg/L	<5	<5	0.0	No Limit
ES2146157-001	Anonymous	EP074: Styrene	100-42-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: Isopropylbenzene	98-82-8	5	µg/L	<5	<5	0.0	No Limit

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP074A: Monocyclic Aromatic Hydrocarbons (QC Lot: 4096752) - continued									
ES2146157-001	Anonymous	EP074: n-Propylbenzene	103-65-1	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.3.5-Trimethylbenzene	108-67-8	5	µg/L	<5	<5	0.0	No Limit
		EP074: sec-Butylbenzene	135-98-8	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2.4-Trimethylbenzene	95-63-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: tert-Butylbenzene	98-06-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: p-Isopropyltoluene	99-87-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: n-Butylbenzene	104-51-8	5	µg/L	<5	<5	0.0	No Limit
EP074B: Oxygenated Compounds (QC Lot: 4096752)									
ES2146476-005	20211215_R01	EP074: Vinyl Acetate	108-05-4	50	µg/L	<50	<50	0.0	No Limit
		EP074: 2-Butanone (MEK)	78-93-3	50	µg/L	<50	<50	0.0	No Limit
		EP074: 4-Methyl-2-pentanone (MIBK)	108-10-1	50	µg/L	<50	<50	0.0	No Limit
		EP074: 2-Hexanone (MBK)	591-78-6	50	µg/L	<50	<50	0.0	No Limit
ES2146157-001	Anonymous	EP074: Vinyl Acetate	108-05-4	50	µg/L	<50	<50	0.0	No Limit
		EP074: 2-Butanone (MEK)	78-93-3	50	µg/L	<50	<50	0.0	No Limit
		EP074: 4-Methyl-2-pentanone (MIBK)	108-10-1	50	µg/L	<50	<50	0.0	No Limit
		EP074: 2-Hexanone (MBK)	591-78-6	50	µg/L	<50	<50	0.0	No Limit
EP074C: Sulfonated Compounds (QC Lot: 4096752)									
ES2146476-005	20211215_R01	EP074: Carbon disulfide	75-15-0	5	µg/L	<5	<5	0.0	No Limit
ES2146157-001	Anonymous	EP074: Carbon disulfide	75-15-0	5	µg/L	<5	<5	0.0	No Limit
EP074D: Fumigants (QC Lot: 4096752)									
ES2146476-005	20211215_R01	EP074: 2.2-Dichloropropane	594-20-7	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2-Dichloropropane	78-87-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: cis-1.3-Dichloropropylene	10061-01-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: trans-1.3-Dichloropropylene	10061-02-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2-Dibromoethane (EDB)	106-93-4	5	µg/L	<5	<5	0.0	No Limit
ES2146157-001	Anonymous	EP074: 2.2-Dichloropropane	594-20-7	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2-Dichloropropane	78-87-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: cis-1.3-Dichloropropylene	10061-01-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: trans-1.3-Dichloropropylene	10061-02-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2-Dibromoethane (EDB)	106-93-4	5	µg/L	<5	<5	0.0	No Limit
EP074E: Halogenated Aliphatic Compounds (QC Lot: 4096752)									
ES2146476-005	20211215_R01	EP074: 1.1-Dichloroethene	75-35-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: Iodomethane	74-88-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: trans-1.2-Dichloroethene	156-60-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1-Dichloroethane	75-34-3	5	µg/L	<5	<5	0.0	No Limit
		EP074: cis-1.2-Dichloroethene	156-59-2	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1.1-Trichloroethane	71-55-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1-Dichloropropylene	563-58-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: Carbon Tetrachloride	56-23-5	5	µg/L	<5	<5	0.0	No Limit

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP074E: Halogenated Aliphatic Compounds (QC Lot: 4096752) - continued									
ES2146476-005	20211215_R01	EP074: 1.2-Dichloroethane	107-06-2	5	µg/L	<5	<5	0.0	No Limit
		EP074: Trichloroethene	79-01-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: Dibromomethane	74-95-3	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1.2-Trichloroethane	79-00-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.3-Dichloropropane	142-28-9	5	µg/L	<5	<5	0.0	No Limit
		EP074: Tetrachloroethene	127-18-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1.1.2-Tetrachloroethane	630-20-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: trans-1.4-Dichloro-2-butene	110-57-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: cis-1.4-Dichloro-2-butene	1476-11-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1.2.2-Tetrachloroethane	79-34-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2.3-Trichloropropane	96-18-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: Pentachloroethane	76-01-7	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2-Dibromo-3-chloropropane	96-12-8	5	µg/L	<5	<5	0.0	No Limit
		EP074: Hexachlorobutadiene	87-68-3	5	µg/L	<5	<5	0.0	No Limit
		EP074: Dichlorodifluoromethane	75-71-8	50	µg/L	<50	<50	0.0	No Limit
		EP074: Chloromethane	74-87-3	50	µg/L	<50	<50	0.0	No Limit
		EP074: Vinyl chloride	75-01-4	50	µg/L	<50	<50	0.0	No Limit
		EP074: Bromomethane	74-83-9	50	µg/L	<50	<50	0.0	No Limit
		EP074: Chloroethane	75-00-3	50	µg/L	<50	<50	0.0	No Limit
		EP074: Trichlorofluoromethane	75-69-4	50	µg/L	<50	<50	0.0	No Limit
ES2146157-001	Anonymous	EP074: 1.1-Dichloroethene	75-35-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: Iodomethane	74-88-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: trans-1.2-Dichloroethene	156-60-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1-Dichloroethane	75-34-3	5	µg/L	<5	<5	0.0	No Limit
		EP074: cis-1.2-Dichloroethene	156-59-2	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1.1-Trichloroethane	71-55-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1-Dichloropropylene	563-58-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: Carbon Tetrachloride	56-23-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2-Dichloroethane	107-06-2	5	µg/L	<5	<5	0.0	No Limit
		EP074: Trichloroethene	79-01-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: Dibromomethane	74-95-3	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1.2-Trichloroethane	79-00-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.3-Dichloropropane	142-28-9	5	µg/L	<5	<5	0.0	No Limit
		EP074: Tetrachloroethene	127-18-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1.1.2-Tetrachloroethane	630-20-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: trans-1.4-Dichloro-2-butene	110-57-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: cis-1.4-Dichloro-2-butene	1476-11-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1.2.2-Tetrachloroethane	79-34-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2.3-Trichloropropane	96-18-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: Pentachloroethane	76-01-7	5	µg/L	<5	<5	0.0	No Limit

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP074E: Halogenated Aliphatic Compounds (QC Lot: 4096752) - continued									
ES2146157-001	Anonymous	EP074: 1.2-Dibromo-3-chloropropane	96-12-8	5	µg/L	<5	<5	0.0	No Limit
		EP074: Hexachlorobutadiene	87-68-3	5	µg/L	<5	<5	0.0	No Limit
		EP074: Dichlorodifluoromethane	75-71-8	50	µg/L	<50	<50	0.0	No Limit
		EP074: Chloromethane	74-87-3	50	µg/L	<50	<50	0.0	No Limit
		EP074: Vinyl chloride	75-01-4	50	µg/L	<50	<50	0.0	No Limit
		EP074: Bromomethane	74-83-9	50	µg/L	<50	<50	0.0	No Limit
		EP074: Chloroethane	75-00-3	50	µg/L	<50	<50	0.0	No Limit
		EP074: Trichlorofluoromethane	75-69-4	50	µg/L	<50	<50	0.0	No Limit
EP074F: Halogenated Aromatic Compounds (QC Lot: 4096752)									
ES2146476-005	20211215_R01	EP074: Chlorobenzene	108-90-7	5	µg/L	<5	<5	0.0	No Limit
		EP074: Bromobenzene	108-86-1	5	µg/L	<5	<5	0.0	No Limit
		EP074: 2-Chlorotoluene	95-49-8	5	µg/L	<5	<5	0.0	No Limit
		EP074: 4-Chlorotoluene	106-43-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.3-Dichlorobenzene	541-73-1	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.4-Dichlorobenzene	106-46-7	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2-Dichlorobenzene	95-50-1	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2.4-Trichlorobenzene	120-82-1	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2.3-Trichlorobenzene	87-61-6	5	µg/L	<5	<5	0.0	No Limit
ES2146157-001	Anonymous	EP074: Chlorobenzene	108-90-7	5	µg/L	<5	<5	0.0	No Limit
		EP074: Bromobenzene	108-86-1	5	µg/L	<5	<5	0.0	No Limit
		EP074: 2-Chlorotoluene	95-49-8	5	µg/L	<5	<5	0.0	No Limit
		EP074: 4-Chlorotoluene	106-43-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.3-Dichlorobenzene	541-73-1	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.4-Dichlorobenzene	106-46-7	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2-Dichlorobenzene	95-50-1	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2.4-Trichlorobenzene	120-82-1	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2.3-Trichlorobenzene	87-61-6	5	µg/L	<5	<5	0.0	No Limit
EP074G: Trihalomethanes (QC Lot: 4096752)									
ES2146476-005	20211215_R01	EP074: Chloroform	67-66-3	5	µg/L	<5	<5	0.0	No Limit
		EP074: Bromodichloromethane	75-27-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: Dibromochloromethane	124-48-1	5	µg/L	<5	<5	0.0	No Limit
		EP074: Bromoform	75-25-2	5	µg/L	<5	<5	0.0	No Limit
ES2146157-001	Anonymous	EP074: Chloroform	67-66-3	5	µg/L	<5	<5	0.0	No Limit
		EP074: Bromodichloromethane	75-27-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: Dibromochloromethane	124-48-1	5	µg/L	<5	<5	0.0	No Limit
		EP074: Bromoform	75-25-2	5	µg/L	<5	<5	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4096751)									
ES2146476-005	20211215_R01	EP080: C6 - C9 Fraction	----	20	µg/L	<20	<20	0.0	No Limit
ES2146157-001	Anonymous	EP080: C6 - C9 Fraction	----	20	µg/L	<20	<20	0.0	No Limit

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4096751)									
ES2146476-005	20211215_R01	EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	<20	0.0	No Limit
ES2146157-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	<20	0.0	No Limit
EP080: BTEXN (QC Lot: 4096751)									
ES2146476-005	20211215_R01	EP080: Benzene	71-43-2	1	µg/L	<1	<1	0.0	No Limit
		EP080: Toluene	108-88-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	2	µg/L	<2	<2	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	2	µg/L	<2	<2	0.0	No Limit
		EP080: Naphthalene	91-20-3	5	µg/L	<5	<5	0.0	No Limit
ES2146157-001	Anonymous	EP080: Benzene	71-43-2	1	µg/L	<1	<1	0.0	No Limit
		EP080: Toluene	108-88-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	2	µg/L	<2	<2	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	2	µg/L	<2	<2	0.0	No Limit
		EP080: Naphthalene	91-20-3	5	µg/L	<5	<5	0.0	No Limit
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 4096596)									
ES2146476-005	20211215_R01	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
ES2146476-033	20211216_R02	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4096596)									
ES2146476-005	20211215_R01	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4096596) - continued									
ES2146476-005	20211215_R01	EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	0.0	No Limit
ES2146476-033	20211216_R02	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	0.0	No Limit
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4096596)									
ES2146476-005	20211215_R01	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
ES2146476-033	20211216_R02	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4096596)									

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4096596) - continued									
ES2146476-005	20211215_R01	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	0.0	No Limit
ES2146476-033	20211216_R02	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231P: PFAS Sums (QC Lot: 4096596)									
ES2146476-005	20211215_R01	EP231X: Sum of PFAS	----	0.01	µg/L	<0.01	<0.01	0.0	No Limit
ES2146476-033	20211216_R02	EP231X: Sum of PFAS	----	0.01	µg/L	<0.01	<0.01	0.0	No Limit

Method Blank (MB) and Laboratory Control Sample (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Sample (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

Sub-Matrix: **SOIL**

				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4093741)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	121.1 mg/kg	101	88.0	113
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	0.74 mg/kg	81.9	70.0	130
EG005T: Chromium	7440-47-3	2	mg/kg	<2	19.6 mg/kg	109	68.0	132
EG005T: Copper	7440-50-8	5	mg/kg	<5	52.9 mg/kg	104	89.0	111
EG005T: Lead	7439-92-1	5	mg/kg	<5	60.8 mg/kg	95.7	82.0	119
EG005T: Nickel	7440-02-0	2	mg/kg	<2	15.3 mg/kg	97.7	80.0	120
EG005T: Zinc	7440-66-6	5	mg/kg	<5	139.3 mg/kg	92.9	66.0	133
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4093744)								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.087 mg/kg	86.2	70.0	125
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 4088004)								
EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	1 mg/kg	85.7	62.0	126
EP068A: Organochlorine Pesticides (OC) (QCLot: 4088003)								
EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	0.5 mg/kg	94.3	69.0	113
EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	0.5 mg/kg	93.6	65.0	117
EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	0.5 mg/kg	98.8	67.0	119
EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	0.5 mg/kg	95.8	68.0	116
EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	102	65.0	117
EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	0.5 mg/kg	92.2	67.0	115
EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	0.5 mg/kg	96.0	69.0	115
EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	0.5 mg/kg	95.5	62.0	118
EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	0.5 mg/kg	94.9	63.0	117
EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	0.5 mg/kg	96.8	66.0	116
EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	0.5 mg/kg	92.7	64.0	116
EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	0.5 mg/kg	98.1	66.0	116
EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	0.5 mg/kg	96.5	67.0	115
EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	0.5 mg/kg	93.5	67.0	123
EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	0.5 mg/kg	97.2	69.0	115
EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	0.5 mg/kg	97.1	69.0	121
EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	0.5 mg/kg	86.0	56.0	120
EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	0.5 mg/kg	92.0	62.0	124
EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	0.5 mg/kg	88.9	66.0	120
EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	0.5 mg/kg	96.1	64.0	122
EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	0.5 mg/kg	89.8	54.0	130
EP068B: Organophosphorus Pesticides (OP) (QCLot: 4088003)								

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP068B: Organophosphorus Pesticides (OP) (QCLot: 4088003) - continued								
EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	0.5 mg/kg	79.2	59.0	119
EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	88.3	62.0	128
EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	0.5 mg/kg	78.9	54.0	126
EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	0.5 mg/kg	94.9	67.0	119
EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	0.5 mg/kg	98.6	70.0	120
EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	0.5 mg/kg	89.4	72.0	120
EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	0.5 mg/kg	85.5	68.0	120
EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	0.5 mg/kg	93.7	68.0	122
EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	0.5 mg/kg	91.4	69.0	117
EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	0.5 mg/kg	94.3	76.0	118
EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	0.5 mg/kg	91.7	64.0	122
EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	0.5 mg/kg	90.7	70.0	116
EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	0.5 mg/kg	94.5	69.0	121
EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	0.5 mg/kg	87.0	66.0	118
EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	0.5 mg/kg	98.1	68.0	124
EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	0.5 mg/kg	94.5	62.0	112
EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	0.5 mg/kg	91.7	68.0	120
EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	0.5 mg/kg	84.6	65.0	127
EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	0.5 mg/kg	87.3	41.0	123
EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 4089907)								
EP074: Styrene	100-42-5	0.5	mg/kg	<0.5	1 mg/kg	98.5	67.0	113
EP074: Isopropylbenzene	98-82-8	0.5	mg/kg	<0.5	1 mg/kg	94.0	65.0	117
EP074: n-Propylbenzene	103-65-1	0.5	mg/kg	<0.5	1 mg/kg	95.1	66.0	122
EP074: 1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	<0.5	1 mg/kg	96.1	68.0	118
EP074: sec-Butylbenzene	135-98-8	0.5	mg/kg	<0.5	1 mg/kg	97.4	69.0	119
EP074: 1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	<0.5	1 mg/kg	95.2	69.0	117
EP074: tert-Butylbenzene	98-06-6	0.5	mg/kg	<0.5	1 mg/kg	97.0	69.0	115
EP074: p-Isopropyltoluene	99-87-6	0.5	mg/kg	<0.5	1 mg/kg	98.4	66.0	118
EP074: n-Butylbenzene	104-51-8	0.5	mg/kg	<0.5	1 mg/kg	97.5	59.0	125
EP074B: Oxygenated Compounds (QCLot: 4089907)								
EP074: Vinyl Acetate	108-05-4	5	mg/kg	<5	10 mg/kg	97.9	29.6	156
EP074: 2-Butanone (MEK)	78-93-3	5	mg/kg	<5	10 mg/kg	101	58.0	136
EP074: 4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	<5	10 mg/kg	96.1	62.0	132
EP074: 2-Hexanone (MBK)	591-78-6	5	mg/kg	<5	10 mg/kg	98.9	54.0	136
EP074C: Sulfonated Compounds (QCLot: 4089907)								
EP074: Carbon disulfide	75-15-0	0.5	mg/kg	<0.5	1 mg/kg	96.6	54.0	126
EP074D: Fumigants (QCLot: 4089907)								
EP074: 2.2-Dichloropropane	594-20-7	0.5	mg/kg	<0.5	1 mg/kg	98.8	60.0	126

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP074D: Fumigants (QCLot: 4089907) - continued								
EP074: 1.2-Dichloropropane	78-87-5	0.5	mg/kg	<0.5	1 mg/kg	95.4	68.0	124
EP074: cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	<0.5	1 mg/kg	99.9	51.0	119
EP074: trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	<0.5	1 mg/kg	93.3	52.0	114
EP074: 1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	<0.5	1 mg/kg	95.4	63.0	115
EP074E: Halogenated Aliphatic Compounds (QCLot: 4089907)								
EP074: Dichlorodifluoromethane	75-71-8	5	mg/kg	<5	10 mg/kg	106	30.0	148
EP074: Chloromethane	74-87-3	5	mg/kg	<5	10 mg/kg	107	41.0	141
EP074: Vinyl chloride	75-01-4	5	mg/kg	<5	10 mg/kg	98.6	43.0	147
EP074: Bromomethane	74-83-9	5	mg/kg	<5	10 mg/kg	101	47.0	141
EP074: Chloroethane	75-00-3	5	mg/kg	<5	10 mg/kg	96.0	49.0	143
EP074: Trichlorofluoromethane	75-69-4	5	mg/kg	<5	10 mg/kg	96.3	49.0	135
EP074: 1.1-Dichloroethene	75-35-4	0.5	mg/kg	<0.5	1 mg/kg	98.0	54.0	126
EP074: Iodomethane	74-88-4	0.5	mg/kg	<0.5	1 mg/kg	106	43.0	129
EP074: trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	<0.5	1 mg/kg	97.0	64.0	120
EP074: 1.1-Dichloroethane	75-34-3	0.5	mg/kg	<0.5	1 mg/kg	99.4	67.0	125
EP074: cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	<0.5	1 mg/kg	102	69.0	121
EP074: 1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	<0.5	1 mg/kg	94.7	65.0	117
EP074: 1.1-Dichloropropylene	563-58-6	0.5	mg/kg	<0.5	1 mg/kg	94.1	65.0	123
EP074: Carbon Tetrachloride	56-23-5	0.5	mg/kg	<0.5	1 mg/kg	97.4	59.0	125
EP074: 1.2-Dichloroethane	107-06-2	0.5	mg/kg	<0.5	1 mg/kg	98.7	65.0	125
EP074: Trichloroethene	79-01-6	0.5	mg/kg	<0.5	1 mg/kg	94.5	70.0	118
EP074: Dibromomethane	74-95-3	0.5	mg/kg	<0.5	1 mg/kg	93.6	68.0	118
EP074: 1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	<0.5	1 mg/kg	94.2	64.0	126
EP074: 1.3-Dichloropropane	142-28-9	0.5	mg/kg	<0.5	1 mg/kg	98.8	68.0	122
EP074: Tetrachloroethene	127-18-4	0.5	mg/kg	<0.5	1 mg/kg	99.9	67.0	143
EP074: 1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	<0.5	1 mg/kg	95.2	62.0	122
EP074: trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	<0.5	1 mg/kg	95.7	54.0	128
EP074: cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	<0.5	1 mg/kg	91.4	55.0	129
EP074: 1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	<0.5	1 mg/kg	101	65.0	121
EP074: 1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	<0.5	1 mg/kg	78.0	61.0	125
EP074: Pentachloroethane	76-01-7	0.5	mg/kg	<0.5	1 mg/kg	98.8	19.8	134
EP074: 1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	<0.5	1 mg/kg	111	53.0	129
EP074: Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	1 mg/kg	102	50.0	128
EP074F: Halogenated Aromatic Compounds (QCLot: 4089907)								
EP074: Chlorobenzene	108-90-7	0.5	mg/kg	<0.5	1 mg/kg	96.5	68.0	116
EP074: Bromobenzene	108-86-1	0.5	mg/kg	<0.5	1 mg/kg	96.6	70.0	114
EP074: 2-Chlorotoluene	95-49-8	0.5	mg/kg	<0.5	1 mg/kg	94.8	68.0	122
EP074: 4-Chlorotoluene	106-43-4	0.5	mg/kg	<0.5	1 mg/kg	100	67.0	123
EP074: 1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	1 mg/kg	94.8	70.0	116

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP074F: Halogenated Aromatic Compounds (QCLot: 4089907) - continued								
EP074: 1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	1 mg/kg	96.8	67.0	117
EP074: 1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	1 mg/kg	95.2	70.0	114
EP074: 1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	1 mg/kg	104	48.0	122
EP074: 1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	<0.5	1 mg/kg	102	52.0	122
EP074G: Trihalomethanes (QCLot: 4089907)								
EP074: Chloroform	67-66-3	0.5	mg/kg	<0.5	1 mg/kg	97.2	66.0	124
EP074: Bromodichloromethane	75-27-4	0.5	mg/kg	<0.5	1 mg/kg	95.3	61.0	121
EP074: Dibromochloromethane	124-48-1	0.5	mg/kg	<0.5	1 mg/kg	98.0	63.0	121
EP074: Bromoform	75-25-2	0.5	mg/kg	<0.5	1 mg/kg	97.5	60.0	126
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 4088002)								
EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	6 mg/kg	102	77.0	125
EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	6 mg/kg	104	72.0	124
EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	6 mg/kg	98.1	73.0	127
EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	6 mg/kg	108	72.0	126
EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	6 mg/kg	106	75.0	127
EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	6 mg/kg	99.0	77.0	127
EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	6 mg/kg	112	73.0	127
EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	6 mg/kg	108	74.0	128
EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	6 mg/kg	104	69.0	123
EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	6 mg/kg	101	75.0	127
EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	6 mg/kg	102	68.0	116
EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	6 mg/kg	101	74.0	126
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	6 mg/kg	87.4	70.0	126
EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	6 mg/kg	93.8	61.0	121
EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	6 mg/kg	91.3	62.0	118
EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	6 mg/kg	94.8	63.0	121
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4088001)								
EP071: C10 - C14 Fraction	----	50	mg/kg	<50	300 mg/kg	107	75.0	129
EP071: C15 - C28 Fraction	----	100	mg/kg	<100	450 mg/kg	108	77.0	131
EP071: C29 - C36 Fraction	----	100	mg/kg	<100	300 mg/kg	106	71.0	129
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4089906)								
EP080: C6 - C9 Fraction	----	10	mg/kg	<10	26 mg/kg	122	68.4	128
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4088001)								
EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	375 mg/kg	107	77.0	125
EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	525 mg/kg	104	74.0	138
EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	225 mg/kg	103	63.0	131
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4089906)								

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4089906) - continued								
EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	31 mg/kg	121	68.4	128
EP080: BTEXN (QCLot: 4089906)								
EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	1 mg/kg	115	62.0	116
EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	1 mg/kg	115	67.0	121
EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	1 mg/kg	116	65.0	117
EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	2 mg/kg	118	66.0	118
EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	1 mg/kg	118	68.0	120
EP080: Naphthalene	91-20-3	1	mg/kg	<1	1 mg/kg	111	63.0	119
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4087872)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	0.00125 mg/kg	128	72.0	128
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	116	73.0	123
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	98.8	67.0	130
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	111	70.0	132
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	109	68.0	136
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	0.00125 mg/kg	110	59.0	134
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4087872)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	0.00625 mg/kg	99.5	71.0	135
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	0.00125 mg/kg	104	69.0	132
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	124	70.0	132
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	128	71.0	131
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	129	69.0	133
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	101	72.0	129
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	0.00125 mg/kg	106	69.0	133
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	102	64.0	136
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	108	69.0	135
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	107	66.0	139
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	105	69.0	133
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4087872)								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	97.6	67.0	137
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	0.00312 mg/kg	116	71.6	129
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	94.1	69.8	131
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	109	68.7	130
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	108	65.1	134
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	113	63.0	144

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4087872) - continued								
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	98.8	61.0	139
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4087872)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	0.00125 mg/kg	134	62.0	145
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	0.00125 mg/kg	113	64.0	140
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	0.00125 mg/kg	122	65.0	137
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	0.00125 mg/kg	139	69.2	143

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EG020T: Total Metals by ICP-MS (QCLot: 4092227)								
EG020A-T: Arsenic	7440-38-2	0.001	mg/L	<0.001	0.1 mg/L	102	82.0	114
EG020A-T: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	0.1 mg/L	99.8	84.0	112
EG020A-T: Chromium	7440-47-3	0.001	mg/L	<0.001	0.1 mg/L	97.0	86.0	116
EG020A-T: Copper	7440-50-8	0.001	mg/L	<0.001	0.1 mg/L	98.4	83.0	118
EG020A-T: Lead	7439-92-1	0.001	mg/L	<0.001	0.1 mg/L	95.3	85.0	115
EG020A-T: Nickel	7440-02-0	0.001	mg/L	<0.001	0.1 mg/L	99.6	84.0	116
EG020A-T: Zinc	7440-66-6	0.005	mg/L	<0.005	0.1 mg/L	99.2	79.0	117
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4092248)								
EG035T: Mercury	7439-97-6	0.0001	mg/L	<0.0001	0.01 mg/L	97.2	77.0	111
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 4088375)								
EP066: Total Polychlorinated biphenyls	----	1	µg/L	<1	10 µg/L	84.7	68.9	113
EP068A: Organochlorine Pesticides (OC) (QCLot: 4088374)								
EP068: alpha-BHC	319-84-6	0.5	µg/L	<0.5	5 µg/L	86.7	64.9	107
EP068: Hexachlorobenzene (HCB)	118-74-1	0.5	µg/L	<0.5	5 µg/L	86.9	58.3	111
EP068: beta-BHC	319-85-7	0.5	µg/L	<0.5	5 µg/L	85.5	69.0	117
EP068: gamma-BHC	58-89-9	0.5	µg/L	<0.5	5 µg/L	89.9	70.0	112
EP068: delta-BHC	319-86-8	0.5	µg/L	<0.5	5 µg/L	84.6	68.9	110
EP068: Heptachlor	76-44-8	0.5	µg/L	<0.5	5 µg/L	84.3	65.2	108
EP068: Aldrin	309-00-2	0.5	µg/L	<0.5	5 µg/L	86.9	65.8	109
EP068: Heptachlor epoxide	1024-57-3	0.5	µg/L	<0.5	5 µg/L	83.8	67.1	107
EP068: trans-Chlordane	5103-74-2	0.5	µg/L	<0.5	5 µg/L	83.6	64.1	110
EP068: alpha-Endosulfan	959-98-8	0.5	µg/L	<0.5	5 µg/L	86.7	66.7	112
EP068: cis-Chlordane	5103-71-9	0.5	µg/L	<0.5	5 µg/L	79.1	63.2	111
EP068: Dieldrin	60-57-1	0.5	µg/L	<0.5	5 µg/L	90.6	65.2	113
EP068: 4.4`-DDE	72-55-9	0.5	µg/L	<0.5	5 µg/L	84.5	66.0	112
EP068: Endrin	72-20-8	0.5	µg/L	<0.5	5 µg/L	98.5	65.2	113
EP068: beta-Endosulfan	33213-65-9	0.5	µg/L	<0.5	5 µg/L	85.9	67.3	114

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP068A: Organochlorine Pesticides (OC) (QCLot: 4088374) - continued								
EP068: 4.4`-DDD	72-54-8	0.5	µg/L	<0.5	5 µg/L	84.2	72.0	122
EP068: Endrin aldehyde	7421-93-4	0.5	µg/L	<0.5	5 µg/L	84.3	66.9	109
EP068: Endosulfan sulfate	1031-07-8	0.5	µg/L	<0.5	5 µg/L	87.7	65.2	112
EP068: 4.4`-DDT	50-29-3	2	µg/L	<2.0	5 µg/L	90.1	65.2	112
EP068: Endrin ketone	53494-70-5	0.5	µg/L	<0.5	5 µg/L	88.2	63.8	110
EP068: Methoxychlor	72-43-5	2	µg/L	<2.0	5 µg/L	93.0	61.1	114
EP068B: Organophosphorus Pesticides (OP) (QCLot: 4088374)								
EP068: Dichlorvos	62-73-7	0.5	µg/L	<0.5	5 µg/L	83.2	65.6	114
EP068: Demeton-S-methyl	919-86-8	0.5	µg/L	<0.5	5 µg/L	82.0	63.7	113
EP068: Monocrotophos	6923-22-4	2	µg/L	<2.0	5 µg/L	23.8	19.7	48.0
EP068: Dimethoate	60-51-5	0.5	µg/L	<0.5	5 µg/L	83.4	69.5	110
EP068: Diazinon	333-41-5	0.5	µg/L	<0.5	5 µg/L	87.8	71.1	110
EP068: Chlorpyrifos-methyl	5598-13-0	0.5	µg/L	<0.5	5 µg/L	81.1	77.0	119
EP068: Parathion-methyl	298-00-0	2	µg/L	<2.0	5 µg/L	81.7	70.0	124
EP068: Malathion	121-75-5	0.5	µg/L	<0.5	5 µg/L	85.8	68.4	116
EP068: Fenthion	55-38-9	0.5	µg/L	<0.5	5 µg/L	80.2	68.6	112
EP068: Chlorpyrifos	2921-88-2	0.5	µg/L	<0.5	5 µg/L	83.9	75.0	119
EP068: Parathion	56-38-2	2	µg/L	<2.0	5 µg/L	83.7	67.0	121
EP068: Pirimphos-ethyl	23505-41-1	0.5	µg/L	<0.5	5 µg/L	78.2	69.0	121
EP068: Chlorfenvinphos	470-90-6	0.5	µg/L	<0.5	5 µg/L	98.0	71.8	110
EP068: Bromophos-ethyl	4824-78-6	0.5	µg/L	<0.5	5 µg/L	75.1	67.5	112
EP068: Fenamiphos	22224-92-6	0.5	µg/L	<0.5	5 µg/L	107	64.1	116
EP068: Prothiofos	34643-46-4	0.5	µg/L	<0.5	5 µg/L	83.0	67.8	114
EP068: Ethion	563-12-2	0.5	µg/L	<0.5	5 µg/L	77.8	74.0	120
EP068: Carbophenothion	786-19-6	0.5	µg/L	<0.5	5 µg/L	78.5	66.2	114
EP068: Azinphos Methyl	86-50-0	0.5	µg/L	<0.5	5 µg/L	104	51.6	128
EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 4096752)								
EP074: Styrene	100-42-5	5	µg/L	<5	10 µg/L	102	73.0	119
EP074: Isopropylbenzene	98-82-8	5	µg/L	<5	10 µg/L	103	76.0	118
EP074: n-Propylbenzene	103-65-1	5	µg/L	<5	10 µg/L	101	69.0	119
EP074: 1.3.5-Trimethylbenzene	108-67-8	5	µg/L	<5	10 µg/L	102	74.0	116
EP074: sec-Butylbenzene	135-98-8	5	µg/L	<5	10 µg/L	101	73.0	119
EP074: 1.2.4-Trimethylbenzene	95-63-6	5	µg/L	<5	10 µg/L	101	74.0	116
EP074: tert-Butylbenzene	98-06-6	5	µg/L	<5	10 µg/L	102	72.0	116
EP074: p-Isopropyltoluene	99-87-6	5	µg/L	<5	10 µg/L	101	71.0	119
EP074: n-Butylbenzene	104-51-8	5	µg/L	<5	10 µg/L	102	65.0	123
EP074B: Oxygenated Compounds (QCLot: 4096752)								
EP074: Vinyl Acetate	108-05-4	50	µg/L	<50	100 µg/L	97.4	61.4	134

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP074B: Oxygenated Compounds (QCLot: 4096752) - continued								
EP074: 2-Butanone (MEK)	78-93-3	50	µg/L	<50	100 µg/L	104	73.6	130
EP074: 4-Methyl-2-pentanone (MIBK)	108-10-1	50	µg/L	<50	100 µg/L	99.8	66.0	132
EP074: 2-Hexanone (MBK)	591-78-6	50	µg/L	<50	100 µg/L	103	65.0	137
EP074C: Sulfonated Compounds (QCLot: 4096752)								
EP074: Carbon disulfide	75-15-0	5	µg/L	<5	10 µg/L	92.6	72.8	127
EP074D: Fumigants (QCLot: 4096752)								
EP074: 2.2-Dichloropropane	594-20-7	5	µg/L	<5	10 µg/L	99.5	68.0	122
EP074: 1.2-Dichloropropane	78-87-5	5	µg/L	<5	10 µg/L	100	76.0	118
EP074: cis-1.3-Dichloropropylene	10061-01-5	5	µg/L	<5	10 µg/L	97.0	62.0	120
EP074: trans-1.3-Dichloropropylene	10061-02-6	5	µg/L	<5	10 µg/L	96.4	60.0	114
EP074: 1.2-Dibromoethane (EDB)	106-93-4	5	µg/L	<5	10 µg/L	99.1	69.0	117
EP074E: Halogenated Aliphatic Compounds (QCLot: 4096752)								
EP074: Dichlorodifluoromethane	75-71-8	50	µg/L	<50	100 µg/L	103	60.6	138
EP074: Chloromethane	74-87-3	50	µg/L	<50	100 µg/L	94.6	67.4	130
EP074: Vinyl chloride	75-01-4	50	µg/L	<50	100 µg/L	94.8	69.4	129
EP074: Bromomethane	74-83-9	50	µg/L	<50	100 µg/L	98.6	56.0	140
EP074: Chloroethane	75-00-3	50	µg/L	<50	100 µg/L	97.2	61.0	139
EP074: Trichlorofluoromethane	75-69-4	50	µg/L	<50	100 µg/L	98.3	69.0	131
EP074: 1.1-Dichloroethene	75-35-4	5	µg/L	<5	10 µg/L	99.3	70.0	124
EP074: Iodomethane	74-88-4	5	µg/L	<5	10 µg/L	87.1	70.2	128
EP074: trans-1.2-Dichloroethene	156-60-5	5	µg/L	<5	10 µg/L	97.6	74.0	118
EP074: 1.1-Dichloroethane	75-34-3	5	µg/L	<5	10 µg/L	98.6	74.0	120
EP074: cis-1.2-Dichloroethene	156-59-2	5	µg/L	<5	10 µg/L	101	77.0	119
EP074: 1.1.1-Trichloroethane	71-55-6	5	µg/L	<5	10 µg/L	98.8	67.0	119
EP074: 1.1-Dichloropropylene	563-58-6	5	µg/L	<5	10 µg/L	98.4	73.0	119
EP074: Carbon Tetrachloride	56-23-5	5	µg/L	<5	10 µg/L	95.8	62.0	120
EP074: 1.2-Dichloroethane	107-06-2	5	µg/L	<5	10 µg/L	100	73.0	123
EP074: Trichloroethene	79-01-6	5	µg/L	<5	10 µg/L	100	76.0	118
EP074: Dibromomethane	74-95-3	5	µg/L	<5	10 µg/L	99.4	73.0	119
EP074: 1.1.2-Trichloroethane	79-00-5	5	µg/L	<5	10 µg/L	100	72.0	126
EP074: 1.3-Dichloropropane	142-28-9	5	µg/L	<5	10 µg/L	99.8	71.0	129
EP074: Tetrachloroethene	127-18-4	5	µg/L	<5	10 µg/L	98.3	72.0	124
EP074: 1.1.1.2-Tetrachloroethane	630-20-6	5	µg/L	<5	10 µg/L	99.8	66.0	114
EP074: trans-1.4-Dichloro-2-butene	110-57-6	5	µg/L	<5	10 µg/L	102	60.0	120
EP074: cis-1.4-Dichloro-2-butene	1476-11-5	5	µg/L	<5	10 µg/L	100	70.6	128
EP074: 1.1.2.2-Tetrachloroethane	79-34-5	5	µg/L	<5	10 µg/L	102	70.0	124
EP074: 1.2.3-Trichloropropane	96-18-4	5	µg/L	<5	10 µg/L	103	74.0	126
EP074: Pentachloroethane	76-01-7	5	µg/L	<5	10 µg/L	97.4	71.8	126

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP074E: Halogenated Aliphatic Compounds (QCLot: 4096752) - continued								
EP074: 1.2-Dibromo-3-chloropropane	96-12-8	5	µg/L	<5	10 µg/L	98.4	66.4	136
EP074: Hexachlorobutadiene	87-68-3	5	µg/L	<5	10 µg/L	103	58.0	130
EP074F: Halogenated Aromatic Compounds (QCLot: 4096752)								
EP074: Chlorobenzene	108-90-7	5	µg/L	<5	10 µg/L	102	79.0	117
EP074: Bromobenzene	108-86-1	5	µg/L	<5	10 µg/L	100	76.0	116
EP074: 2-Chlorotoluene	95-49-8	5	µg/L	<5	10 µg/L	101	73.0	119
EP074: 4-Chlorotoluene	106-43-4	5	µg/L	<5	10 µg/L	102	73.0	119
EP074: 1.3-Dichlorobenzene	541-73-1	5	µg/L	<5	10 µg/L	102	75.0	117
EP074: 1.4-Dichlorobenzene	106-46-7	5	µg/L	<5	10 µg/L	104	74.0	118
EP074: 1.2-Dichlorobenzene	95-50-1	5	µg/L	<5	10 µg/L	102	75.0	117
EP074: 1.2.4-Trichlorobenzene	120-82-1	5	µg/L	<5	10 µg/L	102	61.0	125
EP074: 1.2.3-Trichlorobenzene	87-61-6	5	µg/L	<5	10 µg/L	102	67.0	123
EP074G: Trihalomethanes (QCLot: 4096752)								
EP074: Chloroform	67-66-3	5	µg/L	<5	10 µg/L	99.8	72.0	120
EP074: Bromodichloromethane	75-27-4	5	µg/L	<5	10 µg/L	96.4	64.0	118
EP074: Dibromochloromethane	124-48-1	5	µg/L	<5	10 µg/L	94.7	65.0	115
EP074: Bromoform	75-25-2	5	µg/L	<5	10 µg/L	94.6	73.5	126
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 4088373)								
EP075(SIM): Naphthalene	91-20-3	1	µg/L	<1.0	5 µg/L	77.1	50.0	94.0
EP075(SIM): Acenaphthylene	208-96-8	1	µg/L	<1.0	5 µg/L	84.6	63.6	114
EP075(SIM): Acenaphthene	83-32-9	1	µg/L	<1.0	5 µg/L	82.0	62.2	113
EP075(SIM): Fluorene	86-73-7	1	µg/L	<1.0	5 µg/L	82.9	63.9	115
EP075(SIM): Phenanthrene	85-01-8	1	µg/L	<1.0	5 µg/L	92.4	62.6	116
EP075(SIM): Anthracene	120-12-7	1	µg/L	<1.0	5 µg/L	87.2	64.3	116
EP075(SIM): Fluoranthene	206-44-0	1	µg/L	<1.0	5 µg/L	97.2	63.6	118
EP075(SIM): Pyrene	129-00-0	1	µg/L	<1.0	5 µg/L	94.8	63.1	118
EP075(SIM): Benz(a)anthracene	56-55-3	1	µg/L	<1.0	5 µg/L	77.1	64.1	117
EP075(SIM): Chrysene	218-01-9	1	µg/L	<1.0	5 µg/L	82.9	62.5	116
EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	1	µg/L	<1.0	5 µg/L	68.4	61.7	119
EP075(SIM): Benzo(k)fluoranthene	207-08-9	1	µg/L	<1.0	5 µg/L	86.7	63.0	115
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	µg/L	<0.5	5 µg/L	78.8	63.3	117
EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	1	µg/L	<1.0	5 µg/L	74.4	59.9	118
EP075(SIM): Dibenz(a.h)anthracene	53-70-3	1	µg/L	<1.0	5 µg/L	73.4	61.2	117
EP075(SIM): Benzo(g.h.i)perylene	191-24-2	1	µg/L	<1.0	5 µg/L	67.1	59.1	118
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4088372)								
EP071: C10 - C14 Fraction	----	50	µg/L	<50	400 µg/L	67.0	55.8	112
EP071: C15 - C28 Fraction	----	100	µg/L	<100	600 µg/L	80.7	71.6	113

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4088372) - continued								
EP071: C29 - C36 Fraction	----	50	µg/L	<50	400 µg/L	99.7	56.0	121
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4096751)								
EP080: C6 - C9 Fraction	----	20	µg/L	<20	260 µg/L	89.1	75.0	127
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4088372)								
EP071: >C10 - C16 Fraction	----	100	µg/L	<100	500 µg/L	77.4	57.9	119
EP071: >C16 - C34 Fraction	----	100	µg/L	<100	700 µg/L	99.1	62.5	110
EP071: >C34 - C40 Fraction	----	100	µg/L	<100	300 µg/L	87.3	61.5	121
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4096751)								
EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	310 µg/L	88.6	75.0	127
EP080: BTEXN (QCLot: 4096751)								
EP080: Benzene	71-43-2	1	µg/L	<1	10 µg/L	92.5	70.0	122
EP080: Toluene	108-88-3	2	µg/L	<2	10 µg/L	98.2	69.0	123
EP080: Ethylbenzene	100-41-4	2	µg/L	<2	10 µg/L	101	70.0	120
EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	10 µg/L	103	69.0	121
EP080: ortho-Xylene	95-47-6	2	µg/L	<2	10 µg/L	104	72.0	122
EP080: Naphthalene	91-20-3	5	µg/L	<5	10 µg/L	108	70.0	120
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4096596)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	0.25 µg/L	123	72.0	130
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	0.25 µg/L	109	71.0	127
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.25 µg/L	108	68.0	131
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	0.25 µg/L	110	69.0	134
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.25 µg/L	95.4	65.0	140
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	0.25 µg/L	109	53.0	142
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4096596)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	1.25 µg/L	107	73.0	129
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	0.25 µg/L	115	72.0	129
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.25 µg/L	112	72.0	129
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	0.25 µg/L	108	72.0	130
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	0.25 µg/L	129	71.0	133
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	0.25 µg/L	118	69.0	130
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	0.25 µg/L	107	71.0	129
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	0.25 µg/L	114	69.0	133
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	0.25 µg/L	120	72.0	134
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	0.25 µg/L	114	65.0	144
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	0.625 µg/L	110	71.0	132
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4096596)								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	0.25 µg/L	108	67.0	137

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4096596) - continued								
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	0.625 µg/L	114	68.0	141
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	0.625 µg/L	106	62.6	147
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	0.625 µg/L	98.8	66.0	145
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	0.625 µg/L	108	57.6	145
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	0.25 µg/L	115	65.0	136
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.25 µg/L	121	61.0	135
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4096596)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.25 µg/L	119	63.0	143
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	0.25 µg/L	117	64.0	140
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	0.25 µg/L	115	67.0	138
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	0.25 µg/L	109	71.4	144

Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

Sub-Matrix: **SOIL**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	SpikeRecovery(%): MS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4093741)							
ES2146476-001	BUR_BH105_0.1	EG005T: Arsenic	7440-38-2	50 mg/kg	106	70.0	130
		EG005T: Cadmium	7440-43-9	50 mg/kg	106	70.0	130
		EG005T: Chromium	7440-47-3	50 mg/kg	105	68.0	132
		EG005T: Copper	7440-50-8	250 mg/kg	103	70.0	130
		EG005T: Lead	7439-92-1	250 mg/kg	107	70.0	130
		EG005T: Nickel	7440-02-0	50 mg/kg	104	70.0	130
		EG005T: Zinc	7440-66-6	250 mg/kg	112	66.0	133
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4093744)							
ES2146476-001	BUR_BH105_0.1	EG035T: Mercury	7439-97-6	5 mg/kg	97.1	70.0	130
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 4088004)							
ES2146476-001	BUR_BH105_0.1	EP066: Total Polychlorinated biphenyls	----	1 mg/kg	93.2	70.0	130
EP068A: Organochlorine Pesticides (OC) (QCLot: 4088003)							
ES2146476-001	BUR_BH105_0.1	EP068: gamma-BHC	58-89-9	0.5 mg/kg	102	70.0	130
		EP068: Heptachlor	76-44-8	0.5 mg/kg	78.1	70.0	130

Sub-Matrix: **SOIL**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP068A: Organochlorine Pesticides (OC) (QCLot: 4088003) - continued							
ES2146476-001	BUR_BH105_0.1	EP068: Aldrin	309-00-2	0.5 mg/kg	89.4	70.0	130
		EP068: Dieldrin	60-57-1	0.5 mg/kg	84.0	70.0	130
		EP068: Endrin	72-20-8	2 mg/kg	80.7	70.0	130
		EP068: 4.4`-DDT	50-29-3	2 mg/kg	82.5	70.0	130
EP068B: Organophosphorus Pesticides (OP) (QCLot: 4088003)							
ES2146476-001	BUR_BH105_0.1	EP068: Diazinon	333-41-5	0.5 mg/kg	97.3	70.0	130
		EP068: Chlorpyrifos-methyl	5598-13-0	0.5 mg/kg	90.5	70.0	130
		EP068: Pirimphos-ethyl	23505-41-1	0.5 mg/kg	82.5	70.0	130
		EP068: Bromophos-ethyl	4824-78-6	0.5 mg/kg	77.9	70.0	130
		EP068: Prothiofos	34643-46-4	0.5 mg/kg	106	70.0	130
EP074E: Halogenated Aliphatic Compounds (QCLot: 4089907)							
ES2146476-001	BUR_BH105_0.1	EP074: 1.1-Dichloroethene	75-35-4	2.5 mg/kg	128	70.0	130
		EP074: Trichloroethene	79-01-6	2.5 mg/kg	84.8	70.0	130
EP074F: Halogenated Aromatic Compounds (QCLot: 4089907)							
ES2146476-001	BUR_BH105_0.1	EP074: Chlorobenzene	108-90-7	2.5 mg/kg	90.6	70.0	130
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 4088002)							
ES2146476-001	BUR_BH105_0.1	EP075(SIM): Acenaphthene	83-32-9	10 mg/kg	90.6	70.0	130
		EP075(SIM): Pyrene	129-00-0	10 mg/kg	102	70.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4088001)							
ES2146476-001	BUR_BH105_0.1	EP071: C10 - C14 Fraction	----	480 mg/kg	92.3	73.0	137
		EP071: C15 - C28 Fraction	----	3100 mg/kg	101	53.0	131
		EP071: C29 - C36 Fraction	----	2060 mg/kg	104	52.0	132
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4089906)							
ES2146476-001	BUR_BH105_0.1	EP080: C6 - C9 Fraction	----	32.5 mg/kg	108	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4088001)							
ES2146476-001	BUR_BH105_0.1	EP071: >C10 - C16 Fraction	----	860 mg/kg	95.6	73.0	137
		EP071: >C16 - C34 Fraction	----	4320 mg/kg	104	53.0	131
		EP071: >C34 - C40 Fraction	----	890 mg/kg	95.8	52.0	132
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4089906)							
ES2146476-001	BUR_BH105_0.1	EP080: C6 - C10 Fraction	C6_C10	37.5 mg/kg	106	70.0	130
EP080: BTEXN (QCLot: 4089906)							
ES2146476-001	BUR_BH105_0.1	EP080: Benzene	71-43-2	2.5 mg/kg	88.8	70.0	130
		EP080: Toluene	108-88-3	2.5 mg/kg	88.8	70.0	130
		EP080: Ethylbenzene	100-41-4	2.5 mg/kg	89.7	70.0	130
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2.5 mg/kg	91.2	70.0	130

Sub-Matrix: **SOIL**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP080: BTEXN (QCLot: 4089906) - continued							
ES2146476-001	BUR_BH105_0.1	EP080: ortho-Xylene	95-47-6	2.5 mg/kg	91.3	70.0	130
		EP080: Naphthalene	91-20-3	2.5 mg/kg	86.4	70.0	130
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4087872)							
ES2145948-003	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.00125 mg/kg	120	72.0	128
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00125 mg/kg	120	73.0	123
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.00125 mg/kg	97.6	67.0	130
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00125 mg/kg	95.6	70.0	132
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.00125 mg/kg	88.8	68.0	136
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.00125 mg/kg	119	59.0	134
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4087872)							
ES2145948-003	Anonymous	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.00625 mg/kg	99.6	71.0	135
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.00125 mg/kg	106	69.0	132
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.00125 mg/kg	122	70.0	132
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.00125 mg/kg	125	71.0	131
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.00125 mg/kg	119	69.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.00125 mg/kg	102	72.0	129
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.00125 mg/kg	100	69.0	133
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.00125 mg/kg	92.4	64.0	136
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.00125 mg/kg	135	69.0	135
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.00125 mg/kg	131	66.0	139
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.00312 mg/kg	98.7	69.0	133
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4087872)							
ES2145948-003	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.00125 mg/kg	96.4	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.00312 mg/kg	115	71.6	129
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.00312 mg/kg	94.1	69.8	131
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.00312 mg/kg	102	68.7	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.00312 mg/kg	95.4	65.1	134
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.00125 mg/kg	128	63.0	144
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.00125 mg/kg	101	61.0	139
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4087872)							
ES2145948-003	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.00125 mg/kg	133	62.0	145
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.00125 mg/kg	107	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.00125 mg/kg	126	65.0	137

Sub-Matrix: **SOIL**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	Matrix Spike (MS) Report: SpikeRecovery(%) MS	Matrix Spike (MS) Report: Acceptable Limits (%) Low	Matrix Spike (MS) Report: Acceptable Limits (%) High
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4087872) - continued							
ES2145948-003	Anonymous	EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.00125 mg/kg	136	69.2	143

Sub-Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	Matrix Spike (MS) Report: SpikeRecovery(%) MS	Matrix Spike (MS) Report: Acceptable Limits (%) Low	Matrix Spike (MS) Report: Acceptable Limits (%) High
EG020T: Total Metals by ICP-MS (QCLot: 4092227)							
ES2146334-001	Anonymous	EG020A-T: Arsenic	7440-38-2	1 mg/L	80.0	70.0	130
		EG020A-T: Cadmium	7440-43-9	0.25 mg/L	78.5	70.0	130
		EG020A-T: Chromium	7440-47-3	1 mg/L	77.4	70.0	130
		EG020A-T: Copper	7440-50-8	1 mg/L	79.5	70.0	130
		EG020A-T: Lead	7439-92-1	1 mg/L	80.3	70.0	130
		EG020A-T: Nickel	7440-02-0	1 mg/L	79.7	70.0	130
		EG020A-T: Zinc	7440-66-6	1 mg/L	78.8	70.0	130
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4092248)							
ES2146104-007	Anonymous	EG035T: Mercury	7439-97-6	0.01 mg/L	90.6	70.0	130
EP074E: Halogenated Aliphatic Compounds (QCLot: 4096752)							
ES2146157-001	Anonymous	EP074: 1.1-Dichloroethene	75-35-4	25 µg/L	112	70.0	130
		EP074: Trichloroethene	79-01-6	25 µg/L	117	70.0	130
EP074F: Halogenated Aromatic Compounds (QCLot: 4096752)							
ES2146157-001	Anonymous	EP074: Chlorobenzene	108-90-7	25 µg/L	112	70.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4096751)							
ES2146157-001	Anonymous	EP080: C6 - C9 Fraction	----	325 µg/L	119	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4096751)							
ES2146157-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	375 µg/L	114	70.0	130
EP080: BTEXN (QCLot: 4096751)							
ES2146157-001	Anonymous	EP080: Benzene	71-43-2	25 µg/L	106	70.0	130
		EP080: Toluene	108-88-3	25 µg/L	104	70.0	130
		EP080: Ethylbenzene	100-41-4	25 µg/L	106	70.0	130
		EP080: meta- & para-Xylene	108-38-3 106-42-3	25 µg/L	105	70.0	130
		EP080: ortho-Xylene	95-47-6	25 µg/L	107	70.0	130
		EP080: Naphthalene	91-20-3	25 µg/L	90.1	70.0	130
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4096596)							
ES2146476-005	20211215_R01	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.25 µg/L	112	72.0	130
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.25 µg/L	107	71.0	127
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.25 µg/L	99.2	68.0	131
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.25 µg/L	108	69.0	134

Sub-Matrix: **WATER**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4096596) - continued							
ES2146476-005	20211215_R01	EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.25 µg/L	108	65.0	140
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.25 µg/L	109	53.0	142
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4096596)							
ES2146476-005	20211215_R01	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	1.25 µg/L	110	73.0	129
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.25 µg/L	118	72.0	129
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.25 µg/L	102	72.0	129
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.25 µg/L	117	72.0	130
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.25 µg/L	119	71.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.25 µg/L	110	69.0	130
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.25 µg/L	114	71.0	129
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.25 µg/L	116	69.0	133
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.25 µg/L	114	72.0	134
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.25 µg/L	102	65.0	144
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.625 µg/L	102	71.0	132
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4096596)							
ES2146476-005	20211215_R01	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.25 µg/L	99.8	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.625 µg/L	99.0	68.0	141
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.625 µg/L	99.7	62.6	147
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.625 µg/L	109	66.0	145
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.625 µg/L	99.3	57.6	145
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.25 µg/L	110	65.0	136
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.25 µg/L	102	61.0	135
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4096596)							
ES2146476-005	20211215_R01	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.25 µg/L	116	63.0	143
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.25 µg/L	114	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.25 µg/L	109	67.0	138
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.25 µg/L	118	71.4	144

ALS Environmental

QA/QC Compliance Assessment to assist with Quality Review

Work Order	: **ES2146476**	Page	: 1 of 18
Amendment	: **1**		
Client	: **ENVIRONMENTAL RESOURCES MANAGEMENT (ERM)**	Laboratory	: Environmental Division Sydney
Contact	: MS JESSICA LAWRENCE	Telephone	: +61-2-8784 8555
Project	: 0577577-Burwood	Date Samples Received	: 17-Dec-2021
Site	: ----	Issue Date	: 02-Feb-2022
Sampler	: MADUSHANI BOLONGHE, TRISTAN RODRIGUES	No. of samples received	: 37
Order number	: ----	No. of samples analysed	: 21

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers : Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- **NO Method Blank value outliers occur.**
- **NO Duplicate outliers occur.**
- **NO Laboratory Control outliers occur.**
- **NO Matrix Spike outliers occur.**
- **Surrogate recovery outliers exist for all regular sample matrices - please see following pages for full details.**

Outliers : Analysis Holding Time Compliance

- **NO Analysis Holding Time Outliers exist.**

Outliers : Frequency of Quality Control Samples

- **Quality Control Sample Frequency Outliers exist - please see following pages for full details.**

Regular Sample Surrogates

Sub-Matrix: **SOIL**

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Samples Submitted							
EP080S: TPH(V)/BTEX Surrogates	ES2146476-020	BUR_BH104_1.0	**1.2-Dichloroethane-D4**	17060-07-0	72.3 %	72.8-133 %	**Recovery less than lower data quality objective**
EP080S: TPH(V)/BTEX Surrogates	ES2146476-016	BUR_BH103_3.0	**4-Bromofluorobenzene**	460-00-4	131 %	71.6-130 %	**Recovery greater than upper data quality objective**

Outliers : Frequency of Quality Control Samples

Matrix: **WATER**

Quality Control Sample Type / Method	Count QC	Count Regular	Rate (%) Actual	Rate (%) Expected	Quality Control Specification
Laboratory Duplicates (DUP)					
PAH/Phenols (GC/MS - SIM)	0	7	0.00	10.00	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	0	3	0.00	10.00	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	0	3	0.00	10.00	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	0	9	0.00	10.00	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)					
PAH/Phenols (GC/MS - SIM)	0	7	0.00	5.00	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	0	3	0.00	5.00	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	0	3	0.00	5.00	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	0	9	0.00	5.00	NEPM 2013 B3 & ALS QC Standard

Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for ***VOC in soils*** vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / *Container / Client Sample ID(s)*	*Sample Date*	*Extraction / Preparation*			*Analysis*		
		Date extracted	*Due for extraction*	*Evaluation*	*Date analysed*	*Due for analysis*	*Evaluation*

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)		Sample Date	Extraction / Preparation			Analysis		
			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EA055: Moisture Content (Dried @ 105-110°C)								
Soil Glass Jar - Unpreserved (EA055)								
BUR_BH105_0.1,	BUR_BH105_3.0	**15-Dec-2021**	**----**	----	----	**22-Dec-2021**	29-Dec-2021	✓
Soil Glass Jar - Unpreserved (EA055)								
BUR_BH102_0.2 - BUR_BH102_0.15,	BUR_BH102_2.0,	**16-Dec-2021**	**----**	----	----	**22-Dec-2021**	30-Dec-2021	✓
BUR_BH103_0.1,	BUR_BH103_0.7,							
BUR_BH103_3.0,	BUR_BH103_5.0,							
BUR_BH104_0.2,	BUR_BH104_1.0,							
BUR_BH104_4.0,	BUR_BH118_0.25,							
BUR_BH118_1.5,	BUR_BH119_0.25,							
BUR_BH119_1.0,	D01_20211216							
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Snap Lock Bag - ACM/Asbestos Grab Bag (EA200)								
BUR_BH105_0.1		**15-Dec-2021**	**----**	----	----	**20-Dec-2021**	13-Jun-2022	✓
Snap Lock Bag - ACM/Asbestos Grab Bag (EA200)								
BUR_BH103_0.1,	BUR_BH104_0.2	**16-Dec-2021**	**----**	----	----	**20-Dec-2021**	14-Jun-2022	✓
Snap Lock Bag - ACM/Asbestos Grab Bag (EA200)								
BUR_BH118_0.25		**16-Dec-2021**	**----**	----	----	**24-Dec-2021**	14-Jun-2022	✓
Snap Lock Bag - Friable Asbestos/PSD Bag (EA200)								
BUR_BH119_0.25		**16-Dec-2021**	**----**	----	----	**20-Dec-2021**	14-Jun-2022	✓
EG005(ED093)T: Total Metals by ICP-AES								
Soil Glass Jar - Unpreserved (EG005T)								
BUR_BH105_0.1,	BUR_BH105_3.0	**15-Dec-2021**	**22-Dec-2021**	13-Jun-2022	✓	**23-Dec-2021**	13-Jun-2022	✓
Soil Glass Jar - Unpreserved (EG005T)								
BUR_BH102_0.2 - BUR_BH102_0.15,	BUR_BH102_2.0,	**16-Dec-2021**	**22-Dec-2021**	14-Jun-2022	✓	**23-Dec-2021**	14-Jun-2022	✓
BUR_BH103_0.1,	BUR_BH103_0.7,							
BUR_BH103_3.0,	BUR_BH103_5.0,							
BUR_BH104_0.2,	BUR_BH104_1.0,							
BUR_BH104_4.0,	BUR_BH118_0.25,							
BUR_BH118_1.5,	BUR_BH119_0.25,							
BUR_BH119_1.0,	D01_20211216							
EG035T: Total Recoverable Mercury by FIMS								
Soil Glass Jar - Unpreserved (EG035T)								
BUR_BH105_0.1,	BUR_BH105_3.0	**15-Dec-2021**	**22-Dec-2021**	12-Jan-2022	✓	**23-Dec-2021**	12-Jan-2022	✓
Soil Glass Jar - Unpreserved (EG035T)								
BUR_BH102_0.2 - BUR_BH102_0.15,	BUR_BH102_2.0,	**16-Dec-2021**	**22-Dec-2021**	13-Jan-2022	✓	**23-Dec-2021**	13-Jan-2022	✓
BUR_BH103_0.1,	BUR_BH103_0.7,							
BUR_BH103_3.0,	BUR_BH103_5.0,							
BUR_BH104_0.2,	BUR_BH104_1.0,							
BUR_BH104_4.0,	BUR_BH118_0.25,							
BUR_BH118_1.5,	BUR_BH119_0.25,							
BUR_BH119_1.0,	D01_20211216							

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP066: Polychlorinated Biphenyls (PCB)							
Soil Glass Jar - Unpreserved (EP066)							
BUR_BH105_0.1, BUR_BH105_3.0	**15-Dec-2021**	**23-Dec-2021**	29-Dec-2021	✓	**24-Dec-2021**	01-Feb-2022	✓
Soil Glass Jar - Unpreserved (EP066)							
BUR_BH102_0.2 - BUR_BH102_0.15, BUR_BH102_2.0, BUR_BH103_0.1, BUR_BH103_0.7, BUR_BH103_3.0, BUR_BH103_5.0, BUR_BH104_0.2, BUR_BH104_1.0, BUR_BH104_4.0, BUR_BH118_0.25, BUR_BH118_1.5, BUR_BH119_0.25, BUR_BH119_1.0, D01_20211216	**16-Dec-2021**	**23-Dec-2021**	30-Dec-2021	✓	**24-Dec-2021**	01-Feb-2022	✓
EP068A: Organochlorine Pesticides (OC)							
Soil Glass Jar - Unpreserved (EP068)							
BUR_BH105_0.1, BUR_BH105_3.0	**15-Dec-2021**	**23-Dec-2021**	29-Dec-2021	✓	**24-Dec-2021**	01-Feb-2022	✓
Soil Glass Jar - Unpreserved (EP068)							
BUR_BH102_0.2 - BUR_BH102_0.15, BUR_BH102_2.0, BUR_BH103_0.1, BUR_BH103_0.7, BUR_BH103_3.0, BUR_BH103_5.0, BUR_BH104_0.2, BUR_BH104_1.0, BUR_BH104_4.0, BUR_BH118_0.25, BUR_BH118_1.5, BUR_BH119_0.25, BUR_BH119_1.0, D01_20211216	**16-Dec-2021**	**23-Dec-2021**	30-Dec-2021	✓	**24-Dec-2021**	01-Feb-2022	✓
EP068B: Organophosphorus Pesticides (OP)							
Soil Glass Jar - Unpreserved (EP068)							
BUR_BH105_0.1, BUR_BH105_3.0	**15-Dec-2021**	**23-Dec-2021**	29-Dec-2021	✓	**24-Dec-2021**	01-Feb-2022	✓
Soil Glass Jar - Unpreserved (EP068)							
BUR_BH102_0.2 - BUR_BH102_0.15, BUR_BH102_2.0, BUR_BH103_0.1, BUR_BH103_0.7, BUR_BH103_3.0, BUR_BH103_5.0, BUR_BH104_0.2, BUR_BH104_1.0, BUR_BH104_4.0, BUR_BH118_0.25, BUR_BH118_1.5, BUR_BH119_0.25, BUR_BH119_1.0, D01_20211216	**16-Dec-2021**	**23-Dec-2021**	30-Dec-2021	✓	**24-Dec-2021**	01-Feb-2022	✓
EP074A: Monocyclic Aromatic Hydrocarbons							
Soil Glass Jar - Unpreserved (EP074)							
BUR_BH105_0.1	**15-Dec-2021**	**21-Dec-2021**	22-Dec-2021	✓	**22-Dec-2021**	22-Dec-2021	✓
Soil Glass Jar - Unpreserved (EP074)							
BUR_BH102_0.2 - BUR_BH102_0.15, BUR_BH103_0.1, BUR_BH103_0.7, BUR_BH103_5.0, BUR_BH104_0.2, BUR_BH104_1.0, BUR_BH118_0.25, BUR_BH118_1.5, BUR_BH119_0.25, BUR_BH119_1.0, D01_20211216	**16-Dec-2021**	**21-Dec-2021**	23-Dec-2021	✓	**22-Dec-2021**	23-Dec-2021	✓

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP074B: Oxygenated Compounds							
Soil Glass Jar - Unpreserved (EP074)							
BUR_BH105_0.1	**15-Dec-2021**	**21-Dec-2021**	22-Dec-2021	✓	**22-Dec-2021**	22-Dec-2021	✓
Soil Glass Jar - Unpreserved (EP074)							
BUR_BH102_0.2 - BUR_BH102_0.15, BUR_BH103_0.1, BUR_BH103_0.7, BUR_BH103_5.0, BUR_BH104_0.2, BUR_BH104_1.0, BUR_BH118_0.25, BUR_BH118_1.5, BUR_BH119_0.25, BUR_BH119_1.0, D01_20211216	**16-Dec-2021**	**21-Dec-2021**	23-Dec-2021	✓	**22-Dec-2021**	23-Dec-2021	✓
EP074C: Sulfonated Compounds							
Soil Glass Jar - Unpreserved (EP074)							
BUR_BH105_0.1	**15-Dec-2021**	**21-Dec-2021**	22-Dec-2021	✓	**22-Dec-2021**	22-Dec-2021	✓
Soil Glass Jar - Unpreserved (EP074)							
BUR_BH102_0.2 - BUR_BH102_0.15, BUR_BH103_0.1, BUR_BH103_0.7, BUR_BH103_5.0, BUR_BH104_0.2, BUR_BH104_1.0, BUR_BH118_0.25, BUR_BH118_1.5, BUR_BH119_0.25, BUR_BH119_1.0, D01_20211216	**16-Dec-2021**	**21-Dec-2021**	23-Dec-2021	✓	**22-Dec-2021**	23-Dec-2021	✓
EP074D: Fumigants							
Soil Glass Jar - Unpreserved (EP074)							
BUR_BH105_0.1	**15-Dec-2021**	**21-Dec-2021**	22-Dec-2021	✓	**22-Dec-2021**	22-Dec-2021	✓
Soil Glass Jar - Unpreserved (EP074)							
BUR_BH102_0.2 - BUR_BH102_0.15, BUR_BH103_0.1, BUR_BH103_0.7, BUR_BH103_5.0, BUR_BH104_0.2, BUR_BH104_1.0, BUR_BH118_0.25, BUR_BH118_1.5, BUR_BH119_0.25, BUR_BH119_1.0, D01_20211216	**16-Dec-2021**	**21-Dec-2021**	23-Dec-2021	✓	**22-Dec-2021**	23-Dec-2021	✓
EP074E: Halogenated Aliphatic Compounds							
Soil Glass Jar - Unpreserved (EP074)							
BUR_BH105_0.1	**15-Dec-2021**	**21-Dec-2021**	22-Dec-2021	✓	**22-Dec-2021**	22-Dec-2021	✓
Soil Glass Jar - Unpreserved (EP074)							
BUR_BH102_0.2 - BUR_BH102_0.15, BUR_BH103_0.1, BUR_BH103_0.7, BUR_BH103_5.0, BUR_BH104_0.2, BUR_BH104_1.0, BUR_BH118_0.25, BUR_BH118_1.5, BUR_BH119_0.25, BUR_BH119_1.0, D01_20211216	**16-Dec-2021**	**21-Dec-2021**	23-Dec-2021	✓	**22-Dec-2021**	23-Dec-2021	✓

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP074F: Halogenated Aromatic Compounds							
Soil Glass Jar - Unpreserved (EP074)							
BUR_BH105_0.1	**15-Dec-2021**	**21-Dec-2021**	22-Dec-2021	✓	**22-Dec-2021**	22-Dec-2021	✓
Soil Glass Jar - Unpreserved (EP074)							
BUR_BH102_0.2 - BUR_BH102_0.15, BUR_BH103_0.1, BUR_BH103_0.7, BUR_BH103_5.0, BUR_BH104_0.2, BUR_BH104_1.0, BUR_BH118_0.25, BUR_BH118_1.5, BUR_BH119_0.25, BUR_BH119_1.0, D01_20211216	**16-Dec-2021**	**21-Dec-2021**	23-Dec-2021	✓	**22-Dec-2021**	23-Dec-2021	✓
EP074G: Trihalomethanes							
Soil Glass Jar - Unpreserved (EP074)							
BUR_BH105_0.1	**15-Dec-2021**	**21-Dec-2021**	22-Dec-2021	✓	**22-Dec-2021**	22-Dec-2021	✓
Soil Glass Jar - Unpreserved (EP074)							
BUR_BH102_0.2 - BUR_BH102_0.15, BUR_BH103_0.1, BUR_BH103_0.7, BUR_BH103_5.0, BUR_BH104_0.2, BUR_BH104_1.0, BUR_BH118_0.25, BUR_BH118_1.5, BUR_BH119_0.25, BUR_BH119_1.0, D01_20211216	**16-Dec-2021**	**21-Dec-2021**	23-Dec-2021	✓	**22-Dec-2021**	23-Dec-2021	✓
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons							
Soil Glass Jar - Unpreserved (EP075(SIM))							
BUR_BH105_0.1, BUR_BH105_3.0	**15-Dec-2021**	**23-Dec-2021**	29-Dec-2021	✓	**24-Dec-2021**	01-Feb-2022	✓
Soil Glass Jar - Unpreserved (EP075(SIM))							
BUR_BH102_0.2 - BUR_BH102_0.15, BUR_BH102_2.0, BUR_BH103_0.1, BUR_BH103_0.7, BUR_BH103_3.0, BUR_BH103_5.0, BUR_BH104_0.2, BUR_BH104_1.0, BUR_BH104_4.0, BUR_BH118_0.25, BUR_BH118_1.5, BUR_BH119_0.25, BUR_BH119_1.0, D01_20211216	**16-Dec-2021**	**23-Dec-2021**	30-Dec-2021	✓	**24-Dec-2021**	01-Feb-2022	✓

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)		Sample Date	Extraction / Preparation			Analysis		
			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP080/071: Total Petroleum Hydrocarbons								
Soil Glass Jar - Unpreserved (EP080)								
BUR_BH105_0.1,	BUR_BH105_3.0	**15-Dec-2021**	**21-Dec-2021**	29-Dec-2021	✓	**22-Dec-2021**	29-Dec-2021	✓
Soil Glass Jar - Unpreserved (EP071)								
BUR_BH105_0.1,	BUR_BH105_3.0	**15-Dec-2021**	**23-Dec-2021**	29-Dec-2021	✓	**24-Dec-2021**	01-Feb-2022	✓
Soil Glass Jar - Unpreserved (EP080)								
BUR_BH102_0.2 - BUR_BH102_0.15,	BUR_BH102_2.0,	**16-Dec-2021**	**21-Dec-2021**	30-Dec-2021	✓	**22-Dec-2021**	30-Dec-2021	✓
BUR_BH103_0.1,	BUR_BH103_0.7,							
BUR_BH103_3.0,	BUR_BH103_5.0,							
BUR_BH104_0.2,	BUR_BH104_1.0,							
BUR_BH104_4.0,	BUR_BH118_0.25,							
BUR_BH118_1.5,	BUR_BH119_0.25,							
BUR_BH119_1.0,	D01_20211216							
Soil Glass Jar - Unpreserved (EP071)								
BUR_BH102_0.2 - BUR_BH102_0.15,	BUR_BH102_2.0,	**16-Dec-2021**	**23-Dec-2021**	30-Dec-2021	✓	**24-Dec-2021**	01-Feb-2022	✓
BUR_BH103_0.1,	BUR_BH103_0.7,							
BUR_BH103_3.0,	BUR_BH103_5.0,							
BUR_BH104_0.2,	BUR_BH104_1.0,							
BUR_BH104_4.0,	BUR_BH118_0.25,							
BUR_BH118_1.5,	BUR_BH119_0.25,							
BUR_BH119_1.0,	D01_20211216							
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
Soil Glass Jar - Unpreserved (EP080)								
BUR_BH105_0.1,	BUR_BH105_3.0	**15-Dec-2021**	**21-Dec-2021**	29-Dec-2021	✓	**22-Dec-2021**	29-Dec-2021	✓
Soil Glass Jar - Unpreserved (EP071)								
BUR_BH105_0.1,	BUR_BH105_3.0	**15-Dec-2021**	**23-Dec-2021**	29-Dec-2021	✓	**24-Dec-2021**	01-Feb-2022	✓
Soil Glass Jar - Unpreserved (EP080)								
BUR_BH102_0.2 - BUR_BH102_0.15,	BUR_BH102_2.0,	**16-Dec-2021**	**21-Dec-2021**	30-Dec-2021	✓	**22-Dec-2021**	30-Dec-2021	✓
BUR_BH103_0.1,	BUR_BH103_0.7,							
BUR_BH103_3.0,	BUR_BH103_5.0,							
BUR_BH104_0.2,	BUR_BH104_1.0,							
BUR_BH104_4.0,	BUR_BH118_0.25,							
BUR_BH118_1.5,	BUR_BH119_0.25,							
BUR_BH119_1.0,	D01_20211216							
Soil Glass Jar - Unpreserved (EP071)								
BUR_BH102_0.2 - BUR_BH102_0.15,	BUR_BH102_2.0,	**16-Dec-2021**	**23-Dec-2021**	30-Dec-2021	✓	**24-Dec-2021**	01-Feb-2022	✓
BUR_BH103_0.1,	BUR_BH103_0.7,							
BUR_BH103_3.0,	BUR_BH103_5.0,							
BUR_BH104_0.2,	BUR_BH104_1.0,							
BUR_BH104_4.0,	BUR_BH118_0.25,							
BUR_BH118_1.5,	BUR_BH119_0.25,							
BUR_BH119_1.0,	D01_20211216							

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP080: BTEXN							
Soil Glass Jar - Unpreserved (EP080)							
Trip Spike, TSC1	**13-Dec-2021**	**21-Dec-2021**	27-Dec-2021	✓	**22-Dec-2021**	27-Dec-2021	✓
Soil Glass Jar - Unpreserved (EP080)							
BUR_BH105_0.1, BUR_BH105_3.0, Trip Blank	**15-Dec-2021**	**21-Dec-2021**	29-Dec-2021	✓	**22-Dec-2021**	29-Dec-2021	✓
Soil Glass Jar - Unpreserved (EP080)							
BUR_BH102_0.2 - BUR_BH102_0.15, BUR_BH102_2.0, BUR_BH103_0.1, BUR_BH103_0.7, BUR_BH103_3.0, BUR_BH103_5.0, BUR_BH104_0.2, BUR_BH104_1.0, BUR_BH104_4.0, BUR_BH118_0.25, BUR_BH118_1.5, BUR_BH119_0.25, BUR_BH119_1.0, D01_20211216	**16-Dec-2021**	**21-Dec-2021**	30-Dec-2021	✓	**22-Dec-2021**	30-Dec-2021	✓
EP231A: Perfluoroalkyl Sulfonic Acids							
HDPE Soil Jar (EP231X)							
BUR_BH105_0.1	**15-Dec-2021**	**20-Dec-2021**	13-Jun-2022	✓	**21-Dec-2021**	29-Jan-2022	✓
HDPE Soil Jar (EP231X)							
BUR_BH102_0.2 - BUR_BH102_0.15, BUR_BH103_0.1, BUR_BH103_5.0, BUR_BH104_0.2, BUR_BH104_4.0, BUR_BH118_0.25, BUR_BH119_0.25, D01_20211216	**16-Dec-2021**	**20-Dec-2021**	14-Jun-2022	✓	**21-Dec-2021**	29-Jan-2022	✓
EP231B: Perfluoroalkyl Carboxylic Acids							
HDPE Soil Jar (EP231X)							
BUR_BH105_0.1	**15-Dec-2021**	**20-Dec-2021**	13-Jun-2022	✓	**21-Dec-2021**	29-Jan-2022	✓
HDPE Soil Jar (EP231X)							
BUR_BH102_0.2 - BUR_BH102_0.15, BUR_BH103_0.1, BUR_BH103_5.0, BUR_BH104_0.2, BUR_BH104_4.0, BUR_BH118_0.25, BUR_BH119_0.25, D01_20211216	**16-Dec-2021**	**20-Dec-2021**	14-Jun-2022	✓	**21-Dec-2021**	29-Jan-2022	✓
EP231C: Perfluoroalkyl Sulfonamides							
HDPE Soil Jar (EP231X)							
BUR_BH105_0.1	**15-Dec-2021**	**20-Dec-2021**	13-Jun-2022	✓	**21-Dec-2021**	29-Jan-2022	✓
HDPE Soil Jar (EP231X)							
BUR_BH102_0.2 - BUR_BH102_0.15, BUR_BH103_0.1, BUR_BH103_5.0, BUR_BH104_0.2, BUR_BH104_4.0, BUR_BH118_0.25, BUR_BH119_0.25, D01_20211216	**16-Dec-2021**	**20-Dec-2021**	14-Jun-2022	✓	**21-Dec-2021**	29-Jan-2022	✓

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP231D: (n:2) Fluorotelomer Sulfonic Acids							
HDPE Soil Jar (EP231X)							
BUR_BH105_0.1	**15-Dec-2021**	**20-Dec-2021**	13-Jun-2022	✓	**21-Dec-2021**	29-Jan-2022	✓
HDPE Soil Jar (EP231X)							
BUR_BH102_0.2 - BUR_BH102_0.15, BUR_BH103_0.1, BUR_BH103_5.0, BUR_BH104_0.2, BUR_BH104_4.0, BUR_BH118_0.25, BUR_BH119_0.25, D01_20211216	**16-Dec-2021**	**20-Dec-2021**	14-Jun-2022	✓	**21-Dec-2021**	29-Jan-2022	✓
EP231P: PFAS Sums							
HDPE Soil Jar (EP231X)							
BUR_BH105_0.1	**15-Dec-2021**	**20-Dec-2021**	13-Jun-2022	✓	**21-Dec-2021**	29-Jan-2022	✓
HDPE Soil Jar (EP231X)							
BUR_BH102_0.2 - BUR_BH102_0.15, BUR_BH103_0.1, BUR_BH103_5.0, BUR_BH104_0.2, BUR_BH104_4.0, BUR_BH118_0.25, BUR_BH119_0.25, D01_20211216	**16-Dec-2021**	**20-Dec-2021**	14-Jun-2022	✓	**21-Dec-2021**	29-Jan-2022	✓

Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EG020T: Total Metals by ICP-MS							
Clear Plastic Bottle - Nitric Acid; Unfiltered (EG020A-T)							
20211215_R01	**15-Dec-2021**	**22-Dec-2021**	13-Jun-2022	✓	**22-Dec-2021**	13-Jun-2022	✓
Clear Plastic Bottle - Nitric Acid; Unfiltered (EG020A-T)							
20211216_R02	**16-Dec-2021**	**22-Dec-2021**	14-Jun-2022	✓	**22-Dec-2021**	14-Jun-2022	✓
EG035T: Total Recoverable Mercury by FIMS							
Clear Plastic Bottle - Nitric Acid; Unfiltered (EG035T)							
20211215_R01	**15-Dec-2021**	**----**	----	----	**23-Dec-2021**	12-Jan-2022	✓
Clear Plastic Bottle - Nitric Acid; Unfiltered (EG035T)							
20211216_R02	**16-Dec-2021**	**----**	----	----	**23-Dec-2021**	13-Jan-2022	✓
EP066: Polychlorinated Biphenyls (PCB)							
Amber Glass Bottle - Unpreserved (EP066)							
20211215_R01	**15-Dec-2021**	**22-Dec-2021**	22-Dec-2021	✓	**24-Dec-2021**	31-Jan-2022	✓
Amber Glass Bottle - Unpreserved (EP066)							
20211216_R02	**16-Dec-2021**	**22-Dec-2021**	23-Dec-2021	✓	**24-Dec-2021**	31-Jan-2022	✓
EP068A: Organochlorine Pesticides (OC)							
Amber Glass Bottle - Unpreserved (EP068)							
20211215_R01	**15-Dec-2021**	**22-Dec-2021**	22-Dec-2021	✓	**24-Dec-2021**	31-Jan-2022	✓
Amber Glass Bottle - Unpreserved (EP068)							
20211216_R02	**16-Dec-2021**	**22-Dec-2021**	23-Dec-2021	✓	**24-Dec-2021**	31-Jan-2022	✓

Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP068B: Organophosphorus Pesticides (OP)							
Amber Glass Bottle - Unpreserved (EP068) 20211215_R01	**15-Dec-2021**	**22-Dec-2021**	22-Dec-2021	✓	**24-Dec-2021**	31-Jan-2022	✓
Amber Glass Bottle - Unpreserved (EP068) 20211216_R02	**16-Dec-2021**	**22-Dec-2021**	23-Dec-2021	✓	**24-Dec-2021**	31-Jan-2022	✓
EP074A: Monocyclic Aromatic Hydrocarbons							
Amber VOC Vial - Sulfuric Acid (EP074) 20211215_R01	**15-Dec-2021**	**24-Dec-2021**	29-Dec-2021	✓	**24-Dec-2021**	29-Dec-2021	✓
Amber VOC Vial - Sulfuric Acid (EP074) 20211216_R02	**16-Dec-2021**	**24-Dec-2021**	30-Dec-2021	✓	**24-Dec-2021**	30-Dec-2021	✓
EP074B: Oxygenated Compounds							
Amber VOC Vial - Sulfuric Acid (EP074) 20211215_R01	**15-Dec-2021**	**24-Dec-2021**	29-Dec-2021	✓	**24-Dec-2021**	29-Dec-2021	✓
Amber VOC Vial - Sulfuric Acid (EP074) 20211216_R02	**16-Dec-2021**	**24-Dec-2021**	30-Dec-2021	✓	**24-Dec-2021**	30-Dec-2021	✓
EP074C: Sulfonated Compounds							
Amber VOC Vial - Sulfuric Acid (EP074) 20211215_R01	**15-Dec-2021**	**24-Dec-2021**	29-Dec-2021	✓	**24-Dec-2021**	29-Dec-2021	✓
Amber VOC Vial - Sulfuric Acid (EP074) 20211216_R02	**16-Dec-2021**	**24-Dec-2021**	30-Dec-2021	✓	**24-Dec-2021**	30-Dec-2021	✓
EP074D: Fumigants							
Amber VOC Vial - Sulfuric Acid (EP074) 20211215_R01	**15-Dec-2021**	**24-Dec-2021**	29-Dec-2021	✓	**24-Dec-2021**	29-Dec-2021	✓
Amber VOC Vial - Sulfuric Acid (EP074) 20211216_R02	**16-Dec-2021**	**24-Dec-2021**	30-Dec-2021	✓	**24-Dec-2021**	30-Dec-2021	✓
EP074E: Halogenated Aliphatic Compounds							
Amber VOC Vial - Sulfuric Acid (EP074) 20211215_R01	**15-Dec-2021**	**24-Dec-2021**	29-Dec-2021	✓	**24-Dec-2021**	29-Dec-2021	✓
Amber VOC Vial - Sulfuric Acid (EP074) 20211216_R02	**16-Dec-2021**	**24-Dec-2021**	30-Dec-2021	✓	**24-Dec-2021**	30-Dec-2021	✓
EP074F: Halogenated Aromatic Compounds							
Amber VOC Vial - Sulfuric Acid (EP074) 20211215_R01	**15-Dec-2021**	**24-Dec-2021**	29-Dec-2021	✓	**24-Dec-2021**	29-Dec-2021	✓
Amber VOC Vial - Sulfuric Acid (EP074) 20211216_R02	**16-Dec-2021**	**24-Dec-2021**	30-Dec-2021	✓	**24-Dec-2021**	30-Dec-2021	✓
EP074G: Trihalomethanes							
Amber VOC Vial - Sulfuric Acid (EP074) 20211215_R01	**15-Dec-2021**	**24-Dec-2021**	29-Dec-2021	✓	**24-Dec-2021**	29-Dec-2021	✓
Amber VOC Vial - Sulfuric Acid (EP074) 20211216_R02	**16-Dec-2021**	**24-Dec-2021**	30-Dec-2021	✓	**24-Dec-2021**	30-Dec-2021	✓

Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons							
Amber Glass Bottle - Unpreserved (EP075(SIM)) 20211215_R01	**15-Dec-2021**	**22-Dec-2021**	22-Dec-2021	✓	**24-Dec-2021**	31-Jan-2022	✓
Amber Glass Bottle - Unpreserved (EP075(SIM)) 20211216_R02	**16-Dec-2021**	**22-Dec-2021**	23-Dec-2021	✓	**24-Dec-2021**	31-Jan-2022	✓
EP080/071: Total Petroleum Hydrocarbons							
Amber Glass Bottle - Unpreserved (EP071) 20211215_R01	**15-Dec-2021**	**22-Dec-2021**	22-Dec-2021	✓	**24-Dec-2021**	31-Jan-2022	✓
Amber Glass Bottle - Unpreserved (EP071) 20211216_R02	**16-Dec-2021**	**22-Dec-2021**	23-Dec-2021	✓	**24-Dec-2021**	31-Jan-2022	✓
Amber VOC Vial - Sulfuric Acid (EP080) 20211215_R01	**15-Dec-2021**	**24-Dec-2021**	29-Dec-2021	✓	**24-Dec-2021**	29-Dec-2021	✓
Amber VOC Vial - Sulfuric Acid (EP080) 20211216_R02	**16-Dec-2021**	**24-Dec-2021**	30-Dec-2021	✓	**24-Dec-2021**	30-Dec-2021	✓
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions							
Amber Glass Bottle - Unpreserved (EP071) 20211215_R01	**15-Dec-2021**	**22-Dec-2021**	22-Dec-2021	✓	**24-Dec-2021**	31-Jan-2022	✓
Amber Glass Bottle - Unpreserved (EP071) 20211216_R02	**16-Dec-2021**	**22-Dec-2021**	23-Dec-2021	✓	**24-Dec-2021**	31-Jan-2022	✓
Amber VOC Vial - Sulfuric Acid (EP080) 20211215_R01	**15-Dec-2021**	**24-Dec-2021**	29-Dec-2021	✓	**24-Dec-2021**	29-Dec-2021	✓
Amber VOC Vial - Sulfuric Acid (EP080) 20211216_R02	**16-Dec-2021**	**24-Dec-2021**	30-Dec-2021	✓	**24-Dec-2021**	30-Dec-2021	✓
EP080: BTEXN							
Amber VOC Vial - Sulfuric Acid (EP080) 20211215_R01	**15-Dec-2021**	**24-Dec-2021**	29-Dec-2021	✓	**24-Dec-2021**	29-Dec-2021	✓
Amber VOC Vial - Sulfuric Acid (EP080) 20211216_R02	**16-Dec-2021**	**24-Dec-2021**	30-Dec-2021	✓	**24-Dec-2021**	30-Dec-2021	✓
EP231A: Perfluoroalkyl Sulfonic Acids							
HDPE (no PTFE) (EP231X) 20211215_R01	**15-Dec-2021**	**24-Dec-2021**	13-Jun-2022	✓	**24-Dec-2021**	13-Jun-2022	✓
HDPE (no PTFE) (EP231X) 20211216_R02	**16-Dec-2021**	**24-Dec-2021**	14-Jun-2022	✓	**24-Dec-2021**	14-Jun-2022	✓
EP231B: Perfluoroalkyl Carboxylic Acids							
HDPE (no PTFE) (EP231X) 20211215_R01	**15-Dec-2021**	**24-Dec-2021**	13-Jun-2022	✓	**24-Dec-2021**	13-Jun-2022	✓
HDPE (no PTFE) (EP231X) 20211216_R02	**16-Dec-2021**	**24-Dec-2021**	14-Jun-2022	✓	**24-Dec-2021**	14-Jun-2022	✓
EP231C: Perfluoroalkyl Sulfonamides							
HDPE (no PTFE) (EP231X) 20211215_R01	**15-Dec-2021**	**24-Dec-2021**	13-Jun-2022	✓	**24-Dec-2021**	13-Jun-2022	✓
HDPE (no PTFE) (EP231X) 20211216_R02	**16-Dec-2021**	**24-Dec-2021**	14-Jun-2022	✓	**24-Dec-2021**	14-Jun-2022	✓

Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP231D: (n:2) Fluorotelomer Sulfonic Acids							
HDPE (no PTFE) (EP231X) 20211215_R01	**15-Dec-2021**	**24-Dec-2021**	13-Jun-2022	✓	**24-Dec-2021**	13-Jun-2022	✓
HDPE (no PTFE) (EP231X) 20211216_R02	**16-Dec-2021**	**24-Dec-2021**	14-Jun-2022	✓	**24-Dec-2021**	14-Jun-2022	✓
EP231P: PFAS Sums							
HDPE (no PTFE) (EP231X) 20211215_R01	**15-Dec-2021**	**24-Dec-2021**	13-Jun-2022	✓	**24-Dec-2021**	13-Jun-2022	✓
HDPE (no PTFE) (EP231X) 20211216_R02	**16-Dec-2021**	**24-Dec-2021**	14-Jun-2022	✓	**24-Dec-2021**	14-Jun-2022	✓

Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(were) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

Matrix: **SOIL**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Laboratory Duplicates (DUP)							
Moisture Content	EA055	4	26	**15.38**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (SIM)	EP075(SIM)	2	16	**12.50**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	2	16	**12.50**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	2	16	**12.50**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	2	16	**12.50**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	2	19	**10.53**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds	EP074	2	12	**16.67**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
PAH/Phenols (SIM)	EP075(SIM)	1	16	**6.25**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	1	16	**6.25**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	1	16	**6.25**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	16	**6.25**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds	EP074	1	12	**8.33**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
PAH/Phenols (SIM)	EP075(SIM)	1	16	**6.25**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	1	16	**6.25**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	1	16	**6.25**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	16	**6.25**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds	EP074	1	12	**8.33**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
PAH/Phenols (SIM)	EP075(SIM)	1	16	**6.25**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	1	16	**6.25**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	1	16	**6.25**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard

Matrix: **SOIL**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Matrix Spikes (MS) - Continued							
Total Metals by ICP-AES	EG005T	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	16	**6.25**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds	EP074	1	12	**8.33**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard

Matrix: **WATER**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Laboratory Duplicates (DUP)							
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	0	7	**0.00**	**10.00**	×	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	2	19	**10.53**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	0	3	**0.00**	**10.00**	×	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	0	3	**0.00**	**10.00**	×	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	18	**11.11**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-MS - Suite A	EG020A-T	2	17	**11.76**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	0	9	**0.00**	**10.00**	×	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds	EP074	2	19	**10.53**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	1	7	**14.29**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	1	3	**33.33**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	1	3	**33.33**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-MS - Suite A	EG020A-T	1	17	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	9	**11.11**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds	EP074	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	1	7	**14.29**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	1	3	**33.33**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	1	3	**33.33**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-MS - Suite A	EG020A-T	1	17	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	9	**11.11**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds	EP074	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	0	7	**0.00**	**5.00**	×	NEPM 2013 B3 & ALS QC Standard

Matrix: **WATER**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Matrix Spikes (MS) - Continued							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	0	3	**0.00**	**5.00**	×	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	0	3	**0.00**	**5.00**	×	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-MS - Suite A	EG020A-T	1	17	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	0	9	**0.00**	**5.00**	×	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds	EP074	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard

Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
Moisture Content	EA055	SOIL	In house: A gravimetric procedure based on weight loss over a 12 hour drying period at 105-110 degrees C. This method is compliant with NEPM Schedule B(3).
Asbestos Identification in Soils	EA200	SOIL	AS 4964 Method for the qualitative identification of asbestos in bulk samples Analysis by Polarised Light Microscopy including dispersion staining
Total Metals by ICP-AES	EG005T	SOIL	In house: Referenced to APHA 3120; USEPA SW 846 - 6010. Metals are determined following an appropriate acid digestion of the soil. The ICPAES technique ionises samples in a plasma, emitting a characteristic spectrum based on metals present. Intensities at selected wavelengths are compared against those of matrix matched standards. This method is compliant with NEPM Schedule B(3)
Total Mercury by FIMS	EG035T	SOIL	In house: Referenced to APHA 3112 Hg - B (Flow-injection (SnCl2) (Cold Vapour generation) AAS) FIM-AAS is an automated flameless atomic absorption technique. Mercury in solids are determined following an appropriate acid digestion. Ionic mercury is reduced online to atomic mercury vapour by SnCl2 which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM Schedule B(3)
Polychlorinated Biphenyls (PCB)	EP066	SOIL	In house: Referenced to USEPA SW 846 - 8270 Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3).
Pesticides by GCMS	EP068	SOIL	In house: Referenced to USEPA SW 846 - 8270 Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This technique is compliant with NEPM Schedule B(3).
TRH - Semivolatile Fraction	EP071	SOIL	In house: Referenced to USEPA SW 846 - 8015 Sample extracts are analysed by Capillary GC/FID and quantified against alkane standards over the range C10 - C40. Compliant with NEPM Schedule B(3).
Volatile Organic Compounds	EP074	SOIL	In house: Referenced to USEPA SW 846 - 8260 Extracts are analysed by Purge and Trap, Capillary GC/MS. Quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3).
PAH/Phenols (SIM)	EP075(SIM)	SOIL	In house: Referenced to USEPA SW 846 - 8270. Extracts are analysed by Capillary GC/MS in Selective Ion Mode (SIM) and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3)
TRH Volatiles/BTEX	EP080	SOIL	In house: Referenced to USEPA SW 846 - 8260. Extracts are analysed by Purge and Trap, Capillary GC/MS. Quantification is by comparison against an established 5 point calibration curve. Compliant with NEPM Schedule B(3) amended.
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	SOIL	In-house: Analysis of soils by solvent extraction followed by LC-Electrospray-MS-MS, Negative Mode using MRM using internal standard quantitation. Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to a portion of soil which is then extracted with MTBE and an ion pairing reagent. A portion of extract is exchanged into the analytical solvent mixture, combined with an equal volume reagent water and filtered for analysis. Method procedures and data quality objectives conform to US DoD QSM 5.3, table B-15 requirements.

Analytical Methods	Method	Matrix	Method Descriptions
Total Metals by ICP-MS - Suite A	EG020A-T	WATER	In house: Referenced to APHA 3125; USEPA SW846 - 6020, ALS QWI-EN/EG020. The ICPMS technique utilizes a highly efficient argon plasma to ionize selected elements. Ions are then passed into a high vacuum mass spectrometer, which separates the analytes based on their distinct mass to charge ratios prior to their measurement by a discrete dynode ion detector.
Total Mercury by FIMS	EG035T	WATER	In house: Referenced to APHA 3112 Hg - B (Flow-injection (SnCl2)(Cold Vapour generation) AAS) FIM-AAS is an automated flameless atomic absorption technique. A bromate/bromide reagent is used to oxidise any organic mercury compounds in the unfiltered sample. The ionic mercury is reduced online to atomic mercury vapour by SnCl2 which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM Schedule B(3).
Polychlorinated Biphenyls (PCB)	EP066	WATER	In house: Referenced to USEPA SW 846 - 8270 Sample extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3)
Pesticides by GCMS	EP068	WATER	In house: Referenced to USEPA SW 846 - 8270 Sample extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3)
TRH - Semivolatile Fraction	EP071	WATER	In house: Referenced to USEPA SW 846 - 8015 The sample extract is analysed by Capillary GC/FID and quantification is by comparison against an established 5 point calibration curve of n-Alkane standards. This method is compliant with the QC requirements of NEPM Schedule B(3)
Volatile Organic Compounds	EP074	WATER	In house: Referenced to USEPA SW 846 - 8260 Water samples are directly purged prior to analysis by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3)
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	WATER	In house: Referenced to USEPA SW 846 - 8270 Sample extracts are analysed by Capillary GC/MS in SIM Mode and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3)
TRH Volatiles/BTEX	EP080	WATER	In house: Referenced to USEPA SW 846 - 8260 Water samples are directly purged prior to analysis by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. Alternatively, a sample is equilibrated in a headspace vial and a portion of the headspace determined by GCMS analysis. This method is compliant with the QC requirements of NEPM Schedule B(3)
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	WATER	In-house: Analysis of fresh and saline waters by Solid Phase Extraction (SPE) followed by LC-Electrospray-MS-MS, Negative Mode using MRM and internal standard quantitation. Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to the sample container. The entire contents are transferred to a solid phase extraction (SPE) cartridge. The sample container is successively rinsed with aliquots of the elution solvent. The eluted extract is combined with an equal volume of reagent water and a portion is filtered for analysis. Method procedures and data quality objectives conform to US DoD QSM 5.3, table B-15 requirements.

Preparation Methods	Method	Matrix	Method Descriptions
Hot Block Digest for metals in soils sediments and sludges	EN69	SOIL	In house: Referenced to USEPA 200.2. Hot Block Acid Digestion 1.0g of sample is heated with Nitric and Hydrochloric acids, then cooled. Peroxide is added and samples heated and cooled again before being filtered and bulked to volume for analysis. Digest is appropriate for determination of selected metals in sludge, sediments, and soils. This method is compliant with NEPM Schedule B(3).

Preparation Methods	Method	Matrix	Method Descriptions
Methanolic Extraction of Soils for Purge and Trap	ORG16	SOIL	In house: Referenced to USEPA SW 846 - 5030A. 5g of solid is shaken with surrogate and 10mL methanol prior to analysis by Purge and Trap - GC/MS.
Tumbler Extraction of Solids	ORG17	SOIL	In house: Mechanical agitation (tumbler). 10g of sample, Na2SO4 and surrogate are extracted with 30mL 1:1 DCM/Acetone by end over end tumble. The solvent is decanted, dehydrated and concentrated (by KD) to the desired volume for analysis.
QuECheRS Extraction of Solids	ORG71	SOIL	In house: Sequential extractions with Acetonitrile/Methanol by shaking. Extraction efficiency aided by the addition of salts under acidic conditions. Where relevant, interferences from co-extracted organics are removed with dispersive clean-up media (dSPE). The extract is either diluted or concentrated and exchanged into the analytical solvent.
Digestion for Total Recoverable Metals	EN25	WATER	In house: Referenced to USEPA SW846-3005. Method 3005 is a Nitric/Hydrochloric acid digestion procedure used to prepare surface and ground water samples for analysis by ICPAES or ICPMS. This method is compliant with NEPM Schedule B(3)
Separatory Funnel Extraction of Liquids	ORG14	WATER	In house: Referenced to USEPA SW 846 - 3510 100 mL to 1L of sample is transferred to a separatory funnel and serially extracted three times using DCM for each extract. The resultant extracts are combined, dehydrated and concentrated for analysis. This method is compliant with NEPM Schedule B(3) . ALS default excludes sediment which may be resident in the container.
Volatiles Water Preparation	ORG16-W	WATER	A 5 mL aliquot or 5 mL of a diluted sample is added to a 40 mL VOC vial for purging.
Solid Phase Extraction (SPE) for PFAS in water	ORG72	WATER	In-house: Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to the sample container. The entire contents are transferred to a solid phase extraction (SPE) cartridge. The sample container is successively rinsed with aliquots of the elution solvent. The eluted extract is combined with an equal volume of reagent water and a portion is filtered for analysis. Method procedures conform to US DoD QSM 5.3, table B-15 requirements.

CHAIN OF CUSTODY

ALS Laboratory: please tick →

ADELAIDE 21 Burma Road Pooraka SA 5095 Ph: 08 8359 0890 E: adelaide@alsglobal.com

BRISBANE 32 Shand Street Stafford QLD 4053 Ph: 07 3243 7222 E: samples.brisbane@alsglobal.com

GLADSTONE 46 Callemondah Drive Clinton QLD 4680 Ph: 07 7471 5600 E: gladstone@alsglobal.com

MACKAY 78 Harbour Road Mackay QLD 4740 Ph: 07 4944 0177 E: mackay@als.global.com

MELBOURNE 4-5 Westall Road Springvale VIC 3171 Ph: 03 8549 9600 E: samples.melbourne@alsglobal.com

NEWCASTLE 5/22 Steel Rd Mayfield West NSW 2304 Ph: 02 4014 2500 E: newcastle@alsglobal.com

NOWRA 4/13 Couey Place North Nowra NSW 2541 Ph: 02 4423 2063 E: nowra@alsglobal.com

PERTH 10 Hod Way Malaga WA 6090 Ph: 08 9209 7655 E: samples.perth@alsglobal.com

SYDNEY 277-289 Woodpark Road Smithfield NSW 2164 Ph: 02 7784 8555 E: samples.sydney@alsglobal.com

TOWNSVILLE 14-15 Desma Court Bohle QLD 4818 Ph: 07 4796 0600 E: townsville.environmental@alsglobal.com

WOLLONGONG 99 Kenny Street Wollongong NSW 2500 Ph: 02 4225 3125 E: portkembla@alsglobal.com

CLIENT: ERM	**TURNAROUND REQUIREMENTS :** (Standard TAT may be longer for some tests e.g. Ultra Trace Organics)	☐ Standard TAT (List due date):	**FOR LABORATORY USE ONLY (Circle)**
OFFICE: Sydney		☐ Non Standard or urgent TAT (List due date):	Custody Seal Intact? Yes / No / N/A
PROJECT: 0577577 - Burwood	**ALS QUOTE NO.:**	**COC SEQUENCE NUMBER (Circle)**	Free ice / Frozen ice bricks present upon receipt? Yes / No / N/A
ORDER NUMBER:		COC: 1 2 3 4 5 6 7	Random Sample Temperature on Receipt: 25 °C
PROJECT MANAGER: Jessica Lawrence	**CONTACT PH:** 0404935554	OF: 1 2 3 4 5 6 7	Other comment:

SAMPLER: Tristan Rodrigues / Madushani Bolonghe	**SAMPLER MOBILE:** 0417187687 / 0449091150	**RELINQUISHED BY:**	**RECEIVED BY:**	**RELINQUISHED BY:** / **RECEIVED BY:**
COC emailed to ALS? YES	**EDD FORMAT (or default):**	*Madushani Bolonghe*		
Email Reports to (will default to PM if no other addresses are listed): jessica.lawrence@erm.com, tristan.rodrigues@erm.com		DATE/TIME:	DATE/TIME: 17/12/21 1850	DATE/TIME: / DATE/TIME:
Email Invoice to (will default to PM if no other addresses are listed): jessica.lawrence@erm.com		17/12/2021		

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE	SAMPLE DETAILS MATRIX: SOLID (S) WATER (W)			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required).								Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL CONTAINERS	PFAS (28 analytes) LOR = 5ug/kg	S16	Asbestos ID	VOC	BTEXN			Hold	
1	BUR_BH105_0.1	15/12/2021	S			x	x	x	x					Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc.
2	BUR_BH105_1.0	15/12/2021	S										x	
3	BUR_BH105_2.0	15/12/2021	S										x	
4	BUR_BH105_3.0	15/12/2021	S				x							
5	20211215_R01	15/12/2021	W			x	x		x					
6	Trip Blank	15/12/2021	S							x				
7	Trip Spike	15/12/2021	S							x				

Environmental Division Sydney

Work Order Reference

ES2146476

Telephone : + 61-2-8784 8555

CHAIN OF CUSTODY

ALS Laboratory: please tick →

CLIENT: ERM	TURNAROUND REQUIREMENTS : ☐ Standard TAT (List due date):	FOR LABORATORY USE ONLY (Circle)
OFFICE: Sydney	(Standard TAT may be longer for some tests e.g. Ultra Trace Organics) ☐ Non Standard or urgent TAT (List due date):	Custody Seal Intact? Yes No N/A
PROJECT: 0577577 - Burwood	ALS QUOTE NO.:	Free ice / Frozen ice bricks present upon receipt? Yes No N/A
ORDER NUMBER:	COC SEQUENCE NUMBER (Circle) COC: 1 2 3 4 5 6 7	Random Sample Temperature on Receipt: 2.6 °C
PROJECT MANAGER: Jessica Lawrence	CONTACT PH: 0404935554 OF: 1 2 3 4 5 6 7	Other comment

SAMPLER: Tristan Rodrigues / Madushani Bolonghe	SAMPLER MOBILE: 0417187687 / 0449091150	RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
COC emailed to ALS? YES	EDD FORMAT (or default):	*Madushani Bolonghe*			
Email Reports to (will default to PM if no other addresses are listed): jessica.lawrence@erm.com, tristan.rodrigues@erm.com		DATE/TIME:	DATE/TIME:	DATE/TIME:	DATE/TIME:
Email Invoice to (will default to PM if no other addresses are listed): jessica.lawrence@erm.com		17/12/2021	17/12/21 1850		

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE	SAMPLE DETAILS MATRIX: SOLID (S) WATER (W)			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required).								Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL CONTAINERS	PFAS (28 analytes) LOR = 5ug/kg	S16	Asbestos ID	VOC	BTEXN			Hold	Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc.
8	BUR_BH102_0.2	16/12/2021	S			x	x	x	x					
9	BUR_BH102_1.0	16/12/2021	S										x	
10	BUR_BH102_2.0	16/12/2021	S				x							
11	BUR_BH102_3.0	16/12/2021	S										x	
12	BUR_BH103_0.1	16/12/2021	S			x	x	x	x					
13	BUR_BH103_0.7	16/12/2021	S				x		x					
14	BUR_BH103_1.0	16/12/2021	S										x	
15	BUR_BH103_2.0	16/12/2021	S										x	
16	BUR_BH103_3.0	16/12/2021	S										x	
17	BUR_BH103_4.0	16/12/2021	S										x	
18	BUR_BH103_5.0	16/12/2021	S			x	x		x					

CHAIN OF CUSTODY

ALS Laboratory: please tick →

ADELAIDE 21 Burma Road Pooraka SA 5095 Ph: 08 8359 0890 E: adelaide@alsglobal.com

BRISBANE 32 Shand Street Stafford QLD 4053 Ph: 07 3243 7222 E: samples.brisbane@alsglobal.com

GLADSTONE 46 Callemondah Drive Clinton QLD 4680 Ph: 07 7471 5600 E: gladstone@alsglobal.com

MACKAY 78 Harbour Road Mackay QLD 4740 Ph: 07 4944 0177 E: mackay@alsglobal.com

MELBOURNE Unit 2, 4 Westall Road Springvale VIC 3171 Ph: 03 8549 9600 E: samples.melbourne@alsglobal.com

MUDGEE 27 Sydney Road Mudgee NSW 2850 Ph: 02 6372 6735 E: mudgee.mail@alsglobal.com

NEWCASTLE 1/396 Maitland Rd Mayfield West NSW 2304 Ph: 02 4014 2500 E: samples.newcastle@alsglobal.com

ORANGE 4/13 Geary Place North Nowra NSW 2541 Ph: 02 4423 2063 E: nowra@alsglobal.com

PERTH 10 Hod Way Malaga WA 6090 Ph: 08 9209 7655 E: samples.perth@alsglobal.com

SYDNEY 277-289 Woodpark Road Smithfield NSW 2164 Ph: 02 8784 8555 E: samples.sydney@alsglobal.com

TOWNSVILLE 14-16 Paxton Court Borlie QLD 4818 Ph: 07 4796 0600 E: townsville.environmental@alsglobal.com

WOLLONGONG 99 Kenny Street Wollongong NSW 2500 Ph: 02 4225 3125 E: portkembla@alsglobal.com

CLIENT: ERM	**TURNAROUND REQUIREMENTS :** ☐ Standard TAT **(List due date):**	**FOR LABORATORY USE ONLY (Circle)**	
OFFICE: Sydney	(Standard TAT may be longer for some tests e.g. Ultra Trace Organics) ☐ Non Standard or urgent TAT **(List due date):**	Custody Seal Intact?	Yes / No / N/A
PROJECT: 0577577 - Burwood	**ALS QUOTE NO.:**	Free ice / frozen ice bricks present upon receipt?	Yes / No / N/A
ORDER NUMBER:	**COC SEQUENCE NUMBER (Circle)** COC 1 2 3 4 5 6 7	Random Sample Temperature on Receipt:	°C
PROJECT MANAGER: Jessica Lawrence	**CONTACT PH:** 0404935554 OF: 1 2 3 4 5 6 7	Other comment:	2.6
SAMPLER: Tristan Rodrigues / Madushani Bolonghe	**SAMPLER MOBILE:** 0417187687 / 0449091150	**RELINQUISHED BY:**	**RECEIVED BY:**
COC emailed to ALS? YES	**EDD FORMAT (or default):**	*Madushani Bolonghe*	
Email Reports to (will default to PM if no other addresses are listed): jessica.lawrence@erm.com, tristan.rodrigues@erm.com		DATE/TIME: 17/12/2021	DATE/TIME: 17/12/21 1850
Email Invoice to (will default to PM if no other addresses are listed): jessica.lawrence@erm.com		**RELINQUISHED BY:** DATE/TIME:	**RECEIVED BY:** DATE/TIME:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE	SAMPLE DETAILS MATRIX: SOLID (S) WATER (W)			CONTAINER INFORMATION		ANALYSIS REQUIRED Including SUITES (NB. Suite Codes must be listed to attract suite price) Where **Metals** are required, specify **Total** (unfiltered bottle required) or **Dissolved** (field filtered bottle required).								Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE *(refer to codes below)*	TOTAL CONTAINERS	PFAS (28 analytes) LOR = 5ug/kg	S16	Asbestos ID	VOC	BTEXN			Hold	Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc.
19	BUR_BH104_0.2	16/12/2021	S			x	x	x	x					
20	BUR_BH104_1.0	16/12/2021	S				x		x					
21	BUR_BH104_2.0	16/12/2021	S										x	
22	BUR_BH104_3.0	16/12/2021	S										x	
23	BUR_BH104_4.0	16/12/2021	S			x	x							
24	BUR_BH104_5.0	16/12/2021	S										x	
25	BUR_BH118_0.25	16/12/2021	S			x	x	x	x					
26	BUR_BH118_1.0	16/12/2021	S										x	

CHAIN OF CUSTODY

ALS Laboratory: please tick →

CLIENT: ERM	**TURNAROUND REQUIREMENTS :** ☐ Standard TAT (List due date):
OFFICE: Sydney	(Standard TAT may be longer for some tests e.g. Ultra Trace Organics) ☐ Non Standard or urgent TAT (List due date):
PROJECT: 0577577 - Burwood	**ALS QUOTE NO.:**
ORDER NUMBER:	
PROJECT MANAGER: Jessica Lawrence	**CONTACT PH:** 0404935554
SAMPLER: Tristan Rodrigues / Madushani Bolonghe	**SAMPLER MOBILE:** 0417187687 / 0449091150
COC emailed to ALS? YES	**EDD FORMAT (or default):**
Email Reports to (will default to PM if no other addresses are listed): jessica.lawrence@erm.com, tristan.rodrigues@erm.com	
Email Invoice to (will default to PM if no other addresses are listed): jessica.lawrence@erm.com	

COC SEQUENCE NUMBER (Circle)
COC: 1 2 3 4 5 6 7
OF: 1 2 3 4 5 6 7

FOR LABORATORY USE ONLY (Circle)

Custody Seal Intact?	Yes	No	N/A
Free ice / frozen ice bricks present upon receipt?	Yes	No	N/A
Random Sample Temperature on Receipt:		°C	
Other comment:	7.6		

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Madushani Bolonghe			
DATE/TIME: 17/12/2021	DATE/TIME: 17/12/21	DATE/TIME:	DATE/TIME:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE	SAMPLE DETAILS MATRIX: SOLID (S) WATER (W)			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required).								Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL CONTAINERS	PFAS (28 analytes) LOR = 5ug/kg	S16	Asbestos ID	VOC	BTEXN			Hold	Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc.
27	BUR_BH118_1.5	16/12/2021	S				x		x					
28	BUR_BH118_2.0	16/12/2021	S										x	
29	BUR_BH119_0.25	16/12/2021	S			x	x	x	x					
30	BUR_BH119_1.0	16/12/2021	S				x		x					
31	D01_20211216	16/12/2021	S			x	x		x					
32	T01_20211216	16/12/2021	S			x	x		x					Please forward to Eurofins
33	20211216_R02	16/12/2021	W			x	x		x					
34	Trip Blank	16/12/2021	S							x				
35	Trip Spike	16/12/2021	S							x				
				TOTAL										

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide/Cd Preserved; S = Sodium Hydroxide Preserved Plastic; AG = Amber Glass Unpreserved; AP - Airfreight Unpreserved Plastic
V = VOA Vial HCl Preserved; VB = VOA Vial Sodium Bisulphate Preserved; VS = VOA Vial Sulfuric Preserved; AV = Airfreight Unpreserved Vial SG = Sulfuric Preserved Amber Glass; H = HCl preserved Plastic; HS = HCl preserved Speciation bottle; SP = Sulfuric Preserved Plastic; F = Formaldehyde
Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; ASS = Plastic Bag for Acid Sulphate Soils; B = Unpreserved Bag.

CHAIN OF CUSTODY

ALS Laboratory: please tick →

ADELAIDE 21 Burma Road Pooraka SA 5095 Ph: 08 8359 0890 E: adelaide@alsglobal.com

BRISBANE 32 Shand Street Stafford QLD 4053 Ph: 07 3243 7222 E: samples.brisbane@alsglobal.com

COLDSTONE 46 Callemondah Drive Clinton QLD 4680 Ph: 07 7471 5600 E: gladstone@alsglobal.com

MACKAY 78 Harbour Road Mackay QLD 4740 Ph: 07 4944 0177 E: mackay@alsglobal.com

MELBOURNE 4 Westall Road Springvale VIC 3171 Ph: 03 8549 9600 E: samples.melbourne@alsglobal.com

NEWCASTLE 5/585 Maitland Rd Mayfield West NSW 2304 Ph: 02 4014 2500 E: samples.newcastle@alsglobal.com

PERTH 10 Hod Way Malaga WA 6090 Ph: 08 9209 7655 E: samples.perth@alsglobal.com

SYDNEY 277-289 Woodpark Road Smithfield NSW 2164 Ph: 02 8784 8555 E: samples.sydney@alsglobal.com

TOWNSVILLE 14-15 Desma Court Bohle QLD 4818 Ph: 07 4796 0600 E: townsville.environmental@alsglobal.com

WOLLONGONG 99 Kenny Street Wollongong NSW 2500 Ph: 02 4225 3125 E: portkembla@alsglobal.com

CLIENT: ERM	**TURNAROUND REQUIREMENTS :** ☐ Standard TAT (List due date):	**FOR LABORATORY USE ONLY (Circle)**	
OFFICE: Sydney	(Standard TAT may be longer for some tests e.g. Ultra Trace Organics) ☐ Non Standard or urgent TAT (List due date):	Custody Seal Intact?	Yes / No / N/A
PROJECT: 0577577 - Burwood	**ALS QUOTE NO.:**	Free ice / Frozen ice bricks present upon receipt?	Yes / No / N/A
ORDER NUMBER:	**COC SEQUENCE NUMBER (Circle)** COC: 1 2 3 4 5 6 7	Random Sample Temperature on Receipt	°C
PROJECT MANAGER: Jessica Lawrence	**CONTACT PH:** 0404935554 OF: 1 2 3 4 5 6 7	Other comment:	22

SAMPLER: Tristan Rodrigues / Madushani Bolonghe	**SAMPLER MOBILE:** 0417187687 / 0449091150	**RELINQUISHED BY:**	**RECEIVED BY:**	**RELINQUISHED BY:**	**RECEIVED BY:**
COC emailed to ALS? YES	**EDD FORMAT (or default):**	*Madushani Bolonghe*			
Email Reports to (will default to PM if no other addresses are listed): jessica.lawrence@erm.com, tristan.rodrigues@erm.com		DATE/TIME:	DATE/TIME:	DATE/TIME:	DATE/TIME:
Email Invoice to (will default to PM if no other addresses are listed): jessica.lawrence@erm.com		17/12/2021	17/12/21 1850		

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE	SAMPLE DETAILS MATRIX: SOLID (S) WATER (W)			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required).								Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL CONTAINERS	PFAS (28 analytes) LOR = 5ug/kg	S16	Asbestos ID	VOC	BTEXN			Hold	Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc.
1	BUR_BH105_0.1	15/12/2021	S			x	x	x	x					
2	BUR_BH105_1.0	15/12/2021	S										x	
3	BUR_BH105_2.0	15/12/2021	S										x	
4	BUR_BH105_3.0	15/12/2021	S				x							
5	20211215_R01	15/12/2021	W			x	x		x					
6	Trip Blank	15/12/2021	S							x				
7	Trip Spike	15/12/2021	S							x				

Environmental Division Sydney

Work Order Reference

ES2146476

Telephone : +61-2-8784 8555

CHAIN OF CUSTODY

ALS Laboratory: please tick →

CLIENT: ERM	TURNAROUND REQUIREMENTS : (Standard TAT may be longer for some tests e.g. Ultra Trace Organics)	☐ Standard TAT (List due date):	FOR LABORATORY USE ONLY (Circle)
OFFICE: Sydney		☐ Non Standard or urgent TAT (List due date):	Custody Seal Intact? Yes No N/A
PROJECT: 0577577 - Burwood	ALS QUOTE NO.:	COC SEQUENCE NUMBER (Circle)	Free ice / frozen ice bricks present upon receipt? Yes No N/A
ORDER NUMBER:		COC: 1 2 3 4 5 6 7	Random Sample Temperature on Receipt: 2.6 °C
PROJECT MANAGER: Jessica Lawrence	CONTACT PH: 0404935554	OF: 1 2 3 4 5 6 7	Other comment:

SAMPLER: Tristan Rodrigues / Madushani Bolonghe	SAMPLER MOBILE: 0417187687 / 0449091150	RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
COC emailed to ALS? YES	EDD FORMAT (or default):	Madushani Bolonghe			
Email Reports to (will default to PM if no other addresses are listed): jessica.lawrence@erm.com, tristan.rodrigues@erm.com		DATE/TIME:	DATE/TIME: 17/12/21 1850	DATE/TIME:	DATE/TIME:
Email Invoice to (will default to PM if no other addresses are listed): jessica.lawrence@erm.com		17/12/2021			

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE	SAMPLE DETAILS MATRIX: SOLID (S) WATER (W)			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required).								Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL CONTAINERS	PFAS (28 analytes) LOR = 5ug/kg	S16	Asbestos ID	VOC	BTEXN			Hold	Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc.
8	BUR_BH102_0.2 Received as 0.15	16/12/2021	S			x	x	x	x					
9	BUR_BH102_1.0	16/12/2021	S										x	
10	BUR_BH102_2.0	16/12/2021	S				x							
11	BUR_BH102_3.0	16/12/2021	S										x	
12	BUR_BH103_0.1	16/12/2021	S			x	x	x	x					
13	BUR_BH103_0.7	16/12/2021	S				x		x					
14	BUR_BH103_1.0	16/12/2021	S										x	
15	BUR_BH103_2.0	16/12/2021	S										x	
16	BUR_BH103_3.0	16/12/2021	S										x	
17	BUR_BH103_4.0	16/12/2021	S										x	
18	BUR_BH103_5.0	16/12/2021	S			x	x		x					

CHAIN OF CUSTODY

ALS Laboratory: please tick →

ADELAIDE 21 Burma Road Pooraka SA 5095 Ph: 08 8359 0890 E: adelaide@alsglobal.com

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MACKAY 78 Harbour Road Mackay QLD 4740 Ph: 07 4944 0177 E: mackay@alsglobal.com

MELBOURNE 4 Westall Road Springvale VIC 3171 Ph: 03 8549 9600 E: samples.melbourne@alsglobal.com

NEWCASTLE 27 Sydney Road Mudgee NSW 2850 Ph: 02 6372 6735 E: mudgee.coal@alsglobal.com

NEWCASTLE 5/585 Maitland Rd Mayfield West NSW 2304 Ph: 02 4014 2500 E: samples.newcastle@alsglobal.com

NOWRA 4/13 Geary Place North Nowra NSW 2541 Ph: 61+23 2063 E: nowra@alsglobal.com

PERTH 10 Hod Way Malaga WA 6090 Ph: 08 9209 7655 E: samples.perth@alsglobal.com

SYDNEY 277-289 Woodpark Road Smithfield NSW 2164 Ph: 02 8784 8555 E: samples.sydney@alsglobal.com

TOWNSVILLE 14-15 Desma Court Bohle QLD 4818 Ph: 07 4796 0600 E: townsville.environmental@alsglobal.com

WOLLONGONG 99 Kenny Street Wollongong NSW 2500 Ph: 02 4225 3125 E: portkembla@alsglobal.com

CLIENT: ERM	**TURNAROUND REQUIREMENTS :** ☐ Standard TAT **(List due date):**	**FOR LABORATORY USE ONLY (Circle)**	
OFFICE: Sydney	(Standard TAT may be longer for some tests e.g., Ultra Trace Organics) ☐ Non Standard or urgent TAT **(List due date):**	Custody Seal Intact?	Yes / No / N/A
PROJECT: 0577577 - Burwood	**ALS QUOTE NO.:**	Free ice / frozen ice bricks present upon receipt?	Yes / No / N/A
ORDER NUMBER:	**COC SEQUENCE NUMBER (Circle)** COC: 1 2 3 4 5 6 7	Random Sample Temperature on Receipt:	°C
PROJECT MANAGER: Jessica Lawrence	**CONTACT PH:** 0404935554 OF: 1 2 3 4 5 6 7	Other comment:	
SAMPLER: Tristan Rodrigues / Madushani Bolonghe	**SAMPLER MOBILE:** 0417187687 / 0449091150		
COC emailed to ALS? YES	**EDD FORMAT (or default):**		
Email Reports to (will default to PM if no other addresses are listed): jessica.lawrence@erm.com, tristan.rodrigues@erm.com			
Email Invoice to (will default to PM if no other addresses are listed): jessica.lawrence@erm.com			

RELINQUISHED BY:	**RECEIVED BY:**	**RELINQUISHED BY:**	**RECEIVED BY:**
Madushani Bolonghe			
DATE/TIME: 17/12/2021	DATE/TIME: 17/12/21 1850	DATE/TIME:	DATE/TIME:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE	SAMPLE DETAILS MATRIX: SOLID (S) WATER (W)			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required).								Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL CONTAINERS	PFAS (28 analytes) LOR = 5ug/kg	S16	Asbestos ID	VOC	BTEXN			Hold	Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc.
19	BUR_BH104_0.2	16/12/2021	S			x	x	x	x					
20	BUR_BH104_1.0	16/12/2021	S				x		x					
21	BUR_BH104_2.0	16/12/2021	S										x	
22	BUR_BH104_3.0	16/12/2021	S										x	
23	BUR_BH104_4.0	16/12/2021	S			x	x							
24	BUR_BH104_5.0	16/12/2021	S										x	
25	BUR_BH118_0.25	16/12/2021	S			x	x	x	x					
26	BUR_BH118_1.0	16/12/2021	S										x	

CHAIN OF CUSTODY

ALS Laboratory: please tick →

CLIENT: ERM	TURNAROUND REQUIREMENTS : ☐ Standard TAT (List due date):	FOR LABORATORY USE ONLY (Circle)	
OFFICE: Sydney	(Standard TAT may be longer for some tests e.g. Ultra Trace Organics) ☐ Non Standard or urgent TAT (List due date):	Custody Seal Intact?	Yes / No / N/A
PROJECT: 0577577 - Burwood	ALS QUOTE NO.:	COC SEQUENCE NUMBER (Circle)	Free ice / frozen ice bricks present upon receipt? Yes / No / N/A
ORDER NUMBER:		COC: 1 2 3 4 5 6 7	Random Sample Temperature on Receipt: °C
PROJECT MANAGER: Jessica Lawrence	CONTACT PH: 0404935554	OF: 1 2 3 4 5 6 7	Other comment: 2.6
SAMPLER: Tristan Rodrigues / Madushani Bolonghe	SAMPLER MOBILE: 0417187687 / 0449091150	RELINQUISHED BY:	RECEIVED BY: Scott Mc AS.
COC emailed to ALS? YES	EDD FORMAT (or default):	Madushani Bolonghe	
Email Reports to (will default to PM if no other addresses are listed): jessica.lawrence@erm.com, tristan.rodrigues@erm.com		DATE/TIME:	DATE/TIME: 17/12/21 1850
Email Invoice to (will default to PM if no other addresses are listed): jessica.lawrence@erm.com		17/12/2021	

RELINQUISHED BY:	RECEIVED BY:
DATE/TIME:	DATE/TIME:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE	SAMPLE DETAILS MATRIX: SOLID (S) WATER (W)			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required).								Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL CONTAINERS	PFAS (28 analytes) LOR = 5ug/kg	S16	Asbestos ID	VOC	BTEXN			Hold	Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc.
27	BUR_BH118_1.5	16/12/2021	S				x		x					
28	BUR_BH118_2.0	16/12/2021	S										x	
29	BUR_BH119_0.25	16/12/2021	S			x	x	x	x					
30	BUR_BH119_1.0	16/12/2021	S				x		x					
31	D01_20211216	16/12/2021	S			x	x		x					
32	T01_20211216	16/12/2021	S			x	x		x					Please forward to Eurofins
33	20211216_R02	16/12/2021	W			x	x		x					
34	Trip Blank NR	16/12/2021	S							x				
35	Trip Spike NR	16/12/2021	S							x				

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide/Cd Preserved; S = Sodium Hydroxide Preserved Plastic; AG = Amber Glass Unpreserved; AP = Airfreight Unpreserved Plastic; V = VOA Vial HCl Preserved; VB = VOA Vial Sodium Bisulphate Preserved; VS = VOA Vial Sulfuric Preserved; AV = Airfreight Unpreserved Vial SG = Sulfuric Preserved Amber Glass; H = HCl preserved Plastic; HS = HCl preserved Speciation bottle; SP = Sulfuric Preserved Plastic; F = Formaldehyde; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottle; ST = Sterile Bottle; ASS = Plastic Bag for Acid Sulphate Soils; B = Unpreserved Bag

36 TSC 15/12

37 TSC 16/12 NR

#38 PFAS Jar Extra NO ID. #39 BUR_BH118_0.1

ALS Environmental

CERTIFICATE OF ANALYSIS

Work Order	: **ES2146625**	Page	: 1 of 50
Amendment	: **1**		
Client	: **ENVIRONMENTAL RESOURCES MANAGEMENT (ERM)**	Laboratory	: Environmental Division Sydney
Contact	: MS JESSICA LAWRENCE	Contact	: Customer Services ES
Address	: LEVEL 15 309 KENT STREET SYDNEY NSW AUSTRALIA 2000	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: +61 02 8584 8888	Telephone	: +61-2-8784 8555
Project	: 0577577-Burwood	Date Samples Received	: 20-Dec-2021 17:50
Order number	: ----	Date Analysis Commenced	: 21-Dec-2021
C-O-C number	: ----	Issue Date	: 02-Feb-2022 15:09
Sampler	: TRISTAN RODRIGUES		
Site	: ----		
Quote number	: EN/114		
No. of samples received	: 31		
No. of samples analysed	: 27		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Descriptive Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Alex Rossi	Organic Chemist	Sydney Organics, Smithfield, NSW
Brendan Schrader	Laboratory Technician	Newcastle - Asbestos, Mayfield West, NSW
Franco Lentini	LCMS Coordinator	Sydney Inorganics, Smithfield, NSW
Franco Lentini	LCMS Coordinator	Sydney Organics, Smithfield, NSW
Wisam Marassa	Inorganics Coordinator	Sydney Inorganics, Smithfield, NSW

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) per the NEPM (2013) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a.h)anthracene (1.0), Benzo(g.h.i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero, for 'TEQ 1/2LOR' are treated as half the reported LOR, and for 'TEQ LOR' are treated as being equal to the reported LOR. Note: TEQ 1/2LOR and TEQ LOR will calculate as 0.6mg/Kg and 1.2mg/Kg respectively for samples with non-detects for all of the eight TEQ PAHs.
- EP231X - Per- and Polyfluoroalkyl Substances (PFAS): Samples received in 20ml or 125ml bottles have been tested in accordance with the QSM5.3 compliant, NATA accredited method. 60mL or 250mL bottles have been tested to the legacy QSM 5.1 aligned, NATA accredited method.
- EP080: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EP068: Where reported, Total Chlordane (sum) is the sum of the reported concentrations of cis-Chlordane and trans-Chlordane at or above the LOR.
- EP068: Where reported, Total OCP is the sum of the reported concentrations of all Organochlorine Pesticides at or above LOR.
- EP074: Where reported, Total Trihalomethanes is the sum of the reported concentrations of all Trihalomethanes at or above the LOR.
- EP074: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EP074: Where reported, Sum of chlorinated hydrocarbons includes carbon tetrachloride, chlorobenzene, chloroform, 1,2-dichlorobenzene, 1,4-dichlorobenzene, 1,2-dichloroethane, 1,1-dichloroethene, cis-1,2-dichlorothene, trans-1,2-dichlorothene, 1,1,1,2-tetrachloroethane, 1,1,2,2-tetrachloroethane, 1,2,4-trichlorobenzene, 1,1,1-trichloroethane, 1,1,2-trichloroethane, trichloroethene, vinyl chloride, hexachlorobutadiene and methylene chloride.
- EP074: Where reported, Total Trimethylbenzenes is the sum of the reported concentrations of 1.2.3-Trimethylbenzene, 1.2.4-Trimethylbenzene and 1.3.5-Trimethylbenzene at or above the LOR.
- EP075(SIM): Where reported, Total Cresol is the sum of the reported concentrations of 2-Methylphenol and 3- & 4-Methylphenol at or above the LOR.
- EP080: Positive results for sample ES2146625-009 was confirmed by re-analysis.
- EG035: Positive Mercury result ES2146625 #5 has been confirmed by reanalysis.
- EP080: The trip spike and its control have been analysed for volatile TPH and BTEXN only. The trip spike and control were prepared in the lab using reagent grade sand spiked with petrol. The spike was dispatched from the lab and the control retained.
- Amendment (02/02/2022):This report has been amended to changed LOR for PFAS analysis to 5ug/kg.
- EA200 'Am' Amosite (brown asbestos)
- EA200 'Cr' Crocidolite (blue asbestos)
- EA200 'Trace' - Asbestos fibres ("Free Fibres") detected by trace analysis per AS4964. The result can be interpreted that the sample contains detectable 'respirable' asbestos fibres
- EA200: Asbestos Identification Samples were analysed by Polarised Light Microscopy including dispersion staining.
- EA200 Legend
- EA200 'Ch' Chrysotile (white asbestos)

- EA200: 'UMF' Unknown Mineral Fibres. "-" indicates fibres detected may or may not be asbestos fibres. Confirmation by alternative techniques is recommended.
- EA200: For samples larger than 30g, the <2mm fraction may be sub-sampled prior to trace analysis as outlined in ISO23909:2008(E) Sect 6.3.2-2
- EA200: 'Yes' - Asbestos detected by polarised light microscopy including dispersion staining.
- EA200: 'No*' - No asbestos found, at the reporting limit of 0.1g/kg, by polarised light microscopy including dispersion staining. Asbestos material was detected and positively identified at concentrations estimated to be below 0.1g/kg.
- EA200: 'No' - No asbestos found at the reporting limit 0.1g/kg, by polarised light microscopy including dispersion staining.
- EP231: Stable isotope enriched internal standards are added to samples prior to extraction. Target compounds have a direct analogous internal standard with the exception of PFPeS, PFHpA, PFDS, PFTrDA and 10:2 FTS. These compounds use an internal standard that is chemically related and has a retention time close to that of the target compound. The DQO for internal standard response is 50-150% of that established at initial calibration. PFOS is quantified using a certified, traceable standard consisting of linear and branched PFOS isomers. These practices are in line with recommendations in the National Environmental Management Plan for PFAS (Australian HEPA) and also conform to QSM 5.3 (US DoD) requirements.

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	D03_20211217	BUR_BH120_0.2	BUR_BH120_0.5	BUR_BH108_0.2	D04_20211217
			Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146625-001	ES2146625-002	ES2146625-003	ES2146625-004	ES2146625-005
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	0.1	%	11.1	21.8	30.1	26.2	25.7
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	10	14	11	8	7
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg	10	10	24	19	18
Copper	7440-50-8	5	mg/kg	24	54	7	53	54
Lead	7439-92-1	5	mg/kg	10	87	23	267	300
Nickel	7440-02-0	2	mg/kg	3	22	2	9	9
Zinc	7440-66-6	5	mg/kg	13	80	<5	192	181
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	0.2	0.3
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Total Chlordane (sum)	----	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	D03_20211217	BUR_BH120_0.2	BUR_BH120_0.5	BUR_BH108_0.2	D04_20211217
			Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146625-001	ES2146625-002	ES2146625-003	ES2146625-004	ES2146625-005
				Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued								
4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
EP068B: Organophosphorus Pesticides (OP)								
Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
EP074A: Monocyclic Aromatic Hydrocarbons								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	----	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Styrene	100-42-5	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Isopropylbenzene	98-82-8	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
n-Propylbenzene	103-65-1	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	D03_20211217	BUR_BH120_0.2	BUR_BH120_0.5	BUR_BH108_0.2	D04_20211217
			Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146625-001	ES2146625-002	ES2146625-003	ES2146625-004	ES2146625-005
				Result	Result	Result	Result	Result
EP074A: Monocyclic Aromatic Hydrocarbons - Continued								
1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
sec-Butylbenzene	135-98-8	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
tert-Butylbenzene	98-06-6	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
p-Isopropyltoluene	99-87-6	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
n-Butylbenzene	104-51-8	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
EP074B: Oxygenated Compounds								
Vinyl Acetate	108-05-4	5	mg/kg	<5	<5	----	<5	<5
2-Butanone (MEK)	78-93-3	5	mg/kg	<5	<5	----	<5	<5
4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	<5	<5	----	<5	<5
2-Hexanone (MBK)	591-78-6	5	mg/kg	<5	<5	----	<5	<5
EP074C: Sulfonated Compounds								
Carbon disulfide	75-15-0	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
EP074D: Fumigants								
2.2-Dichloropropane	594-20-7	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.2-Dichloropropane	78-87-5	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
EP074E: Halogenated Aliphatic Compounds								
Dichlorodifluoromethane	75-71-8	5	mg/kg	<5	<5	----	<5	<5
Chloromethane	74-87-3	5	mg/kg	<5	<5	----	<5	<5
Vinyl chloride	75-01-4	5	mg/kg	<5	<5	----	<5	<5
Bromomethane	74-83-9	5	mg/kg	<5	<5	----	<5	<5
Chloroethane	75-00-3	5	mg/kg	<5	<5	----	<5	<5
Trichlorofluoromethane	75-69-4	5	mg/kg	<5	<5	----	<5	<5
1.1-Dichloroethene	75-35-4	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Iodomethane	74-88-4	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.1-Dichloroethane	75-34-3	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.1-Dichloropropylene	563-58-6	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Carbon Tetrachloride	56-23-5	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	D03_20211217	BUR_BH120_0.2	BUR_BH120_0.5	BUR_BH108_0.2	D04_20211217
			Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146625-001	ES2146625-002	ES2146625-003	ES2146625-004	ES2146625-005
				Result	Result	Result	Result	Result
EP074E: Halogenated Aliphatic Compounds - Continued								
1.2-Dichloroethane	107-06-2	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Trichloroethene	79-01-6	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Dibromomethane	74-95-3	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.3-Dichloropropane	142-28-9	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Tetrachloroethene	127-18-4	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Pentachloroethane	76-01-7	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
EP074F: Halogenated Aromatic Compounds								
Chlorobenzene	108-90-7	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Bromobenzene	108-86-1	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
2-Chlorotoluene	95-49-8	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
4-Chlorotoluene	106-43-4	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
EP074G: Trihalomethanes								
Chloroform	67-66-3	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Bromodichloromethane	75-27-4	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Dibromochloromethane	124-48-1	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Bromoform	75-25-2	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
EP074H: Naphthalene								
Naphthalene	91-20-3	1	mg/kg	<1	<1	----	<1	<1
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	<0.5	**0.7**	**0.7**

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	D03_20211217	BUR_BH120_0.2	BUR_BH120_0.5	BUR_BH108_0.2	D04_20211217
			Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146625-001	ES2146625-002	ES2146625-003	ES2146625-004	ES2146625-005
				Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued								
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	**0.8**	<0.5	**5.8**	**4.9**
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	<0.5	**1.3**	**1.2**
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	**0.5**	<0.5	**9.4**	**7.9**
Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	<0.5	**8.8**	**7.5**
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	<0.5	**4.4**	**3.8**
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	<0.5	**3.9**	**3.4**
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	<0.5	**4.7**	**4.2**
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	<0.5	**1.9**	**1.7**
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	<0.5	**4.2**	**3.8**
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	<0.5	**2.2**	**2.0**
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	<0.5	**0.6**	**0.5**
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	<0.5	**2.4**	**2.3**
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	**1.3**	<0.5	**50.3**	**43.9**
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	<0.5	**6.2**	**5.5**
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	**0.6**	**0.6**	**0.6**	**6.2**	**5.5**
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	**1.2**	**1.2**	**1.2**	**6.2**	**5.5**
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	10	mg/kg	<10	<10	<10	<10	<10
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
C15 - C28 Fraction	----	100	mg/kg	<100	**130**	<100	**130**	<100
C29 - C36 Fraction	----	100	mg/kg	<100	**140**	<100	**140**	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	**270**	<50	**270**	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	<10	<10	<10
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	<10	<10	<10	<10
>C10 - C16 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
>C16 - C34 Fraction	----	100	mg/kg	<100	**220**	<100	**220**	**150**
>C34 - C40 Fraction	----	100	mg/kg	<100	**120**	<100	**140**	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	**340**	<50	**360**	**150**
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	<50	<50	<50	<50
EP080: BTEXN								

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	D03_20211217	BUR_BH120_0.2	BUR_BH120_0.5	BUR_BH108_0.2	D04_20211217
			Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146625-001	ES2146625-002	ES2146625-003	ES2146625-004	ES2146625-005
				Result	Result	Result	Result	Result
EP080: BTEXN - Continued								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ **Sum of BTEX**	----	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
^ **Total Xylenes**	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	91-20-3	1	mg/kg	<1	<1	<1	<1	<1
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
Perfluorodecane sulfonic acid (PFDS)	335-77-3	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	5	µg/kg	<5	----	<5	<5	<5
Perfluoropentanoic acid (PFPeA)	2706-90-3	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
Perfluorohexanoic acid (PFHxA)	307-24-4	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
Perfluoroheptanoic acid (PFHpA)	375-85-9	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
Perfluorooctanoic acid (PFOA)	335-67-1	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
Perfluorononanoic acid (PFNA)	375-95-1	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
Perfluorodecanoic acid (PFDA)	335-76-2	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
Perfluorododecanoic acid (PFDoDA)	307-55-1	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	D03_20211217	BUR_BH120_0.2	BUR_BH120_0.5	BUR_BH108_0.2	D04_20211217
			Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146625-001	ES2146625-002	ES2146625-003	ES2146625-004	ES2146625-005
				Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
EP231P: PFAS Sums								
Sum of PFAS	----	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
Sum of PFHxS and PFOS	355-46-4/1763-23-1	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
Sum of PFAS (WA DER List)	----	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
EP066S: PCB Surrogate								
Decachlorobiphenyl	2051-24-3	0.1	%	**71.8**	**70.6**	**93.6**	**76.3**	**76.8**

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	D03_20211217	BUR_BH120_0.2	BUR_BH120_0.5	BUR_BH108_0.2	D04_20211217
			Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146625-001	ES2146625-002	ES2146625-003	ES2146625-004	ES2146625-005
				Result	Result	Result	Result	Result
EP068S: Organochlorine Pesticide Surrogate								
Dibromo-DDE	21655-73-2	0.05	%	90.7	77.0	118	78.6	78.4
EP068T: Organophosphorus Pesticide Surrogate								
DEF	78-48-8	0.05	%	75.8	72.5	114	78.8	71.0
EP074S: VOC Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.5	%	78.0	125	----	75.2	82.8
Toluene-D8	2037-26-5	0.5	%	120	134	----	113	92.4
4-Bromofluorobenzene	460-00-4	0.5	%	111	121	----	106	97.7
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.5	%	92.8	85.8	93.9	90.6	90.0
2-Chlorophenol-D4	93951-73-6	0.5	%	92.2	83.4	93.4	88.9	88.5
2.4.6-Tribromophenol	118-79-6	0.5	%	83.8	72.7	85.2	86.2	86.3
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.5	%	96.9	96.5	98.1	93.7	92.8
Anthracene-d10	1719-06-8	0.5	%	97.3	96.0	102	96.2	95.8
4-Terphenyl-d14	1718-51-0	0.5	%	90.6	89.3	91.4	89.4	88.8
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	101	122	78.2	97.4	80.5
Toluene-D8	2037-26-5	0.2	%	106	126	90.4	100	83.9
4-Bromofluorobenzene	460-00-4	0.2	%	110	118	84.4	104	89.4
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	95.0	----	95.0	92.5	92.0
13C8-PFOA	----	0.0002	%	118	----	115	114	118

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH108_0.5	BUR_BH108_2.0	BUR_BH108_5.8	BUR_BH108_11.0	BUR_BH108_20.0
			Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146625-006	ES2146625-007	ES2146625-008	ES2146625-009	ES2146625-010
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	0.1	%	27.6	15.7	8.1	4.3	4.7
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	7	<5	7	<5	8
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg	19	4	14	5	8
Copper	7440-50-8	5	mg/kg	8	7	46	22	25
Lead	7439-92-1	5	mg/kg	23	14	16	12	18
Nickel	7440-02-0	2	mg/kg	<2	<2	37	14	18
Zinc	7440-66-6	5	mg/kg	<5	<5	195	50	79
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Total Chlordane (sum)	----	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH108_0.5	BUR_BH108_2.0	BUR_BH108_5.8	BUR_BH108_11.0	BUR_BH108_20.0
			Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146625-006	ES2146625-007	ES2146625-008	ES2146625-009	ES2146625-010
				Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued								
4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
EP068B: Organophosphorus Pesticides (OP)								
Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
EP074A: Monocyclic Aromatic Hydrocarbons								
Benzene	71-43-2	0.2	mg/kg	<0.2	----	<0.2	----	<0.2
Toluene	108-88-3	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	----	<0.5	----	0.5
Styrene	100-42-5	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Isopropylbenzene	98-82-8	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
n-Propylbenzene	103-65-1	0.5	mg/kg	<0.5	----	<0.5	----	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH108_0.5	BUR_BH108_2.0	BUR_BH108_5.8	BUR_BH108_11.0	BUR_BH108_20.0
			Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146625-006	ES2146625-007	ES2146625-008	ES2146625-009	ES2146625-010
				Result	Result	Result	Result	Result
EP074A: Monocyclic Aromatic Hydrocarbons - Continued								
1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
sec-Butylbenzene	135-98-8	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
tert-Butylbenzene	98-06-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
p-Isopropyltoluene	99-87-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
n-Butylbenzene	104-51-8	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
EP074B: Oxygenated Compounds								
Vinyl Acetate	108-05-4	5	mg/kg	<5	----	<5	----	<5
2-Butanone (MEK)	78-93-3	5	mg/kg	<5	----	<5	----	<5
4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	<5	----	<5	----	<5
2-Hexanone (MBK)	591-78-6	5	mg/kg	<5	----	<5	----	<5
EP074C: Sulfonated Compounds								
Carbon disulfide	75-15-0	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
EP074D: Fumigants								
2.2-Dichloropropane	594-20-7	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.2-Dichloropropane	78-87-5	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
EP074E: Halogenated Aliphatic Compounds								
Dichlorodifluoromethane	75-71-8	5	mg/kg	<5	----	<5	----	<5
Chloromethane	74-87-3	5	mg/kg	<5	----	<5	----	<5
Vinyl chloride	75-01-4	5	mg/kg	<5	----	<5	----	<5
Bromomethane	74-83-9	5	mg/kg	<5	----	<5	----	<5
Chloroethane	75-00-3	5	mg/kg	<5	----	<5	----	<5
Trichlorofluoromethane	75-69-4	5	mg/kg	<5	----	<5	----	<5
1.1-Dichloroethene	75-35-4	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Iodomethane	74-88-4	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.1-Dichloroethane	75-34-3	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.1-Dichloropropylene	563-58-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Carbon Tetrachloride	56-23-5	0.5	mg/kg	<0.5	----	<0.5	----	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH108_0.5	BUR_BH108_2.0	BUR_BH108_5.8	BUR_BH108_11.0	BUR_BH108_20.0
			Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146625-006	ES2146625-007	ES2146625-008	ES2146625-009	ES2146625-010
				Result	Result	Result	Result	Result
EP074E: Halogenated Aliphatic Compounds - Continued								
1.2-Dichloroethane	107-06-2	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Trichloroethene	79-01-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Dibromomethane	74-95-3	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.3-Dichloropropane	142-28-9	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Tetrachloroethene	127-18-4	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Pentachloroethane	76-01-7	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
EP074F: Halogenated Aromatic Compounds								
Chlorobenzene	108-90-7	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Bromobenzene	108-86-1	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
2-Chlorotoluene	95-49-8	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
4-Chlorotoluene	106-43-4	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
EP074G: Trihalomethanes								
Chloroform	67-66-3	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Bromodichloromethane	75-27-4	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Dibromochloromethane	124-48-1	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Bromoform	75-25-2	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
EP074H: Naphthalene								
Naphthalene	91-20-3	1	mg/kg	<1	----	<1	----	<1
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH108_0.5	BUR_BH108_2.0	BUR_BH108_5.8	BUR_BH108_11.0	BUR_BH108_20.0
			Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146625-006	ES2146625-007	ES2146625-008	ES2146625-009	ES2146625-010
				Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued								
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	<0.5	**0.8**	<0.5
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	<0.5	**0.8**	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	**1.2**	**1.2**	**1.2**	**1.2**	**1.2**
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	10	mg/kg	<10	<10	<10	**30**	**11**
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	**160**	<50
C15 - C28 Fraction	----	100	mg/kg	<100	<100	<100	**440**	<100
C29 - C36 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	<50	**600**	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	<10	**50**	**13**
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	<10	<10	**50**	**13**
>C10 - C16 Fraction	----	50	mg/kg	<50	<50	<50	**230**	<50
>C16 - C34 Fraction	----	100	mg/kg	<100	<100	<100	**420**	<100
>C34 - C40 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	<50	**650**	<50
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	<50	<50	**230**	<50
EP080: BTEXN								

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH108_0.5	BUR_BH108_2.0	BUR_BH108_5.8	BUR_BH108_11.0	BUR_BH108_20.0
			Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146625-006	ES2146625-007	ES2146625-008	ES2146625-009	ES2146625-010
				Result	Result	Result	Result	Result
EP080: BTEXN - Continued								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of BTEX	----	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
^ Total Xylenes	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	91-20-3	1	mg/kg	<1	<1	<1	<1	<1
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	5.0	µg/kg	<5.0	----	----	----	<5.0
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	5.0	µg/kg	<5.0	----	----	----	<5.0
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	5.0	µg/kg	<5.0	----	----	----	<5.0
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	5.0	µg/kg	<5.0	----	----	----	<5.0
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	5.0	µg/kg	<5.0	----	----	----	<5.0
Perfluorodecane sulfonic acid (PFDS)	335-77-3	5.0	µg/kg	<5.0	----	----	----	<5.0
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	5	µg/kg	<5	----	----	----	<5
Perfluoropentanoic acid (PFPeA)	2706-90-3	5.0	µg/kg	<5.0	----	----	----	<5.0
Perfluorohexanoic acid (PFHxA)	307-24-4	5.0	µg/kg	<5.0	----	----	----	<5.0
Perfluoroheptanoic acid (PFHpA)	375-85-9	5.0	µg/kg	<5.0	----	----	----	<5.0
Perfluorooctanoic acid (PFOA)	335-67-1	5.0	µg/kg	<5.0	----	----	----	<5.0
Perfluorononanoic acid (PFNA)	375-95-1	5.0	µg/kg	<5.0	----	----	----	<5.0
Perfluorodecanoic acid (PFDA)	335-76-2	5.0	µg/kg	<5.0	----	----	----	<5.0
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	5.0	µg/kg	<5.0	----	----	----	<5.0
Perfluorododecanoic acid (PFDoDA)	307-55-1	5.0	µg/kg	<5.0	----	----	----	<5.0
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	5.0	µg/kg	<5.0	----	----	----	<5.0

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH108_0.5	BUR_BH108_2.0	BUR_BH108_5.8	BUR_BH108_11.0	BUR_BH108_20.0
			Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146625-006	ES2146625-007	ES2146625-008	ES2146625-009	ES2146625-010
				Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	5.0	µg/kg	<5.0	----	----	----	<5.0
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	5.0	µg/kg	<5.0	----	----	----	<5.0
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	5.0	µg/kg	<5.0	----	----	----	<5.0
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	5.0	µg/kg	<5.0	----	----	----	<5.0
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	5.0	µg/kg	<5.0	----	----	----	<5.0
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	5.0	µg/kg	<5.0	----	----	----	<5.0
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	5.0	µg/kg	<5.0	----	----	----	<5.0
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	5.0	µg/kg	<5.0	----	----	----	<5.0
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	5.0	µg/kg	<5.0	----	----	----	<5.0
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	5.0	µg/kg	<5.0	----	----	----	<5.0
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	5.0	µg/kg	<5.0	----	----	----	<5.0
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	5.0	µg/kg	<5.0	----	----	----	<5.0
EP231P: PFAS Sums								
Sum of PFAS	----	5.0	µg/kg	<5.0	----	----	----	<5.0
Sum of PFHxS and PFOS	355-46-4/1763-23-1	5.0	µg/kg	<5.0	----	----	----	<5.0
Sum of PFAS (WA DER List)	----	5.0	µg/kg	<5.0	----	----	----	<5.0
EP066S: PCB Surrogate								
Decachlorobiphenyl	2051-24-3	0.1	%	**91.4**	**76.6**	**82.7**	**76.0**	**73.2**

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH108_0.5	BUR_BH108_2.0	BUR_BH108_5.8	BUR_BH108_11.0	BUR_BH108_20.0
			Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146625-006	ES2146625-007	ES2146625-008	ES2146625-009	ES2146625-010
				Result	Result	Result	Result	Result
EP068S: Organochlorine Pesticide Surrogate								
Dibromo-DDE	21655-73-2	0.05	%	78.3	84.4	86.3	77.5	91.9
EP068T: Organophosphorus Pesticide Surrogate								
DEF	78-48-8	0.05	%	77.4	72.4	72.6	77.3	81.5
EP074S: VOC Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.5	%	75.5	----	88.2	----	86.9
Toluene-D8	2037-26-5	0.5	%	116	----	125	----	132
4-Bromofluorobenzene	460-00-4	0.5	%	104	----	120	----	122
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.5	%	92.6	93.1	93.4	95.4	92.7
2-Chlorophenol-D4	93951-73-6	0.5	%	90.8	91.1	92.7	94.6	91.8
2.4.6-Tribromophenol	118-79-6	0.5	%	86.2	86.9	86.9	79.8	77.4
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.5	%	95.5	97.4	97.4	99.1	95.4
Anthracene-d10	1719-06-8	0.5	%	98.3	100	100	101	99.6
4-Terphenyl-d14	1718-51-0	0.5	%	89.5	90.5	91.8	93.3	89.6
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	97.9	86.0	114	96.1	112
Toluene-D8	2037-26-5	0.2	%	102	95.0	110	106	117
4-Bromofluorobenzene	460-00-4	0.2	%	104	89.4	119	101	120
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	92.5	----	----	----	94.5
13C8-PFOA	----	0.0002	%	116	----	----	----	114

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH108_17.0	BUR_BH106_0.2	BUR_BH106_1.0	BUR_BH106_2.0	BUR_BH106_3.0
			Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146625-011	ES2146625-012	ES2146625-013	ES2146625-014	ES2146625-015
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	0.1	%	4.6	13.9	26.8	12.4	8.9
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Asbestos Detected	1332-21-4	0.1	g/kg	----	No	----	----	----
Asbestos (Trace)	1332-21-4	5	Fibres	----	No	----	----	----
Asbestos Type	1332-21-4	-	--	----	-	----	----	----
Synthetic Mineral Fibre	----	0.1	g/kg	----	No	----	----	----
Organic Fibre	----	0.1	g/kg	----	No	----	----	----
Sample weight (dry)	----	0.01	g	----	229	----	----	----
APPROVED IDENTIFIER:	----	-	--	----	B.SCHRADER	----	----	----
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	9	5	6	8	8
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg	11	7	11	6	7
Copper	7440-50-8	5	mg/kg	15	48	6	16	30
Lead	7439-92-1	5	mg/kg	16	223	35	22	14
Nickel	7440-02-0	2	mg/kg	15	13	<2	<2	2
Zinc	7440-66-6	5	mg/kg	61	146	<5	<5	15
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Total Chlordane (sum)	----	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH108_17.0	BUR_BH106_0.2	BUR_BH106_1.0	BUR_BH106_2.0	BUR_BH106_3.0
			Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146625-011	ES2146625-012	ES2146625-013	ES2146625-014	ES2146625-015
				Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued								
Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
EP068B: Organophosphorus Pesticides (OP)								
Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
EP074A: Monocyclic Aromatic Hydrocarbons								

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH108_17.0	BUR_BH106_0.2	BUR_BH106_1.0	BUR_BH106_2.0	BUR_BH106_3.0
			Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146625-011	ES2146625-012	ES2146625-013	ES2146625-014	ES2146625-015
				Result	Result	Result	Result	Result
EP074A: Monocyclic Aromatic Hydrocarbons - Continued								
Benzene	71-43-2	0.2	mg/kg	----	<0.2	----	<0.2	----
Toluene	108-88-3	0.5	mg/kg	----	<0.5	----	<0.5	----
Ethylbenzene	100-41-4	0.5	mg/kg	----	<0.5	----	<0.5	----
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	----	<0.5	----	<0.5	----
Styrene	100-42-5	0.5	mg/kg	----	<0.5	----	<0.5	----
ortho-Xylene	95-47-6	0.5	mg/kg	----	<0.5	----	<0.5	----
Isopropylbenzene	98-82-8	0.5	mg/kg	----	<0.5	----	<0.5	----
n-Propylbenzene	103-65-1	0.5	mg/kg	----	<0.5	----	<0.5	----
1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	----	<0.5	----	<0.5	----
sec-Butylbenzene	135-98-8	0.5	mg/kg	----	<0.5	----	<0.5	----
1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	----	<0.5	----	<0.5	----
tert-Butylbenzene	98-06-6	0.5	mg/kg	----	<0.5	----	<0.5	----
p-Isopropyltoluene	99-87-6	0.5	mg/kg	----	<0.5	----	<0.5	----
n-Butylbenzene	104-51-8	0.5	mg/kg	----	<0.5	----	<0.5	----
EP074B: Oxygenated Compounds								
Vinyl Acetate	108-05-4	5	mg/kg	----	<5	----	<5	----
2-Butanone (MEK)	78-93-3	5	mg/kg	----	<5	----	<5	----
4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	----	<5	----	<5	----
2-Hexanone (MBK)	591-78-6	5	mg/kg	----	<5	----	<5	----
EP074C: Sulfonated Compounds								
Carbon disulfide	75-15-0	0.5	mg/kg	----	<0.5	----	<0.5	----
EP074D: Fumigants								
2.2-Dichloropropane	594-20-7	0.5	mg/kg	----	<0.5	----	<0.5	----
1.2-Dichloropropane	78-87-5	0.5	mg/kg	----	<0.5	----	<0.5	----
cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	----	<0.5	----	<0.5	----
trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	----	<0.5	----	<0.5	----
1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	----	<0.5	----	<0.5	----
EP074E: Halogenated Aliphatic Compounds								
Dichlorodifluoromethane	75-71-8	5	mg/kg	----	<5	----	<5	----
Chloromethane	74-87-3	5	mg/kg	----	<5	----	<5	----
Vinyl chloride	75-01-4	5	mg/kg	----	<5	----	<5	----
Bromomethane	74-83-9	5	mg/kg	----	<5	----	<5	----
Chloroethane	75-00-3	5	mg/kg	----	<5	----	<5	----
Trichlorofluoromethane	75-69-4	5	mg/kg	----	<5	----	<5	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH108_17.0	BUR_BH106_0.2	BUR_BH106_1.0	BUR_BH106_2.0	BUR_BH106_3.0
			Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146625-011	ES2146625-012	ES2146625-013	ES2146625-014	ES2146625-015
				Result	Result	Result	Result	Result
EP074E: Halogenated Aliphatic Compounds - Continued								
1.1-Dichloroethene	75-35-4	0.5	mg/kg	----	<0.5	----	<0.5	----
Iodomethane	74-88-4	0.5	mg/kg	----	<0.5	----	<0.5	----
trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	----	<0.5	----	<0.5	----
1.1-Dichloroethane	75-34-3	0.5	mg/kg	----	<0.5	----	<0.5	----
cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	----	<0.5	----	<0.5	----
1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	----	<0.5	----	<0.5	----
1.1-Dichloropropylene	563-58-6	0.5	mg/kg	----	<0.5	----	<0.5	----
Carbon Tetrachloride	56-23-5	0.5	mg/kg	----	<0.5	----	<0.5	----
1.2-Dichloroethane	107-06-2	0.5	mg/kg	----	<0.5	----	<0.5	----
Trichloroethene	79-01-6	0.5	mg/kg	----	<0.5	----	<0.5	----
Dibromomethane	74-95-3	0.5	mg/kg	----	<0.5	----	<0.5	----
1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	----	<0.5	----	<0.5	----
1.3-Dichloropropane	142-28-9	0.5	mg/kg	----	<0.5	----	<0.5	----
Tetrachloroethene	127-18-4	0.5	mg/kg	----	<0.5	----	<0.5	----
1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	----	<0.5	----	<0.5	----
trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	----	<0.5	----	<0.5	----
cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	----	<0.5	----	<0.5	----
1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	----	<0.5	----	<0.5	----
1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	----	<0.5	----	<0.5	----
Pentachloroethane	76-01-7	0.5	mg/kg	----	<0.5	----	<0.5	----
1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	----	<0.5	----	<0.5	----
Hexachlorobutadiene	87-68-3	0.5	mg/kg	----	<0.5	----	<0.5	----
EP074F: Halogenated Aromatic Compounds								
Chlorobenzene	108-90-7	0.5	mg/kg	----	<0.5	----	<0.5	----
Bromobenzene	108-86-1	0.5	mg/kg	----	<0.5	----	<0.5	----
2-Chlorotoluene	95-49-8	0.5	mg/kg	----	<0.5	----	<0.5	----
4-Chlorotoluene	106-43-4	0.5	mg/kg	----	<0.5	----	<0.5	----
1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	----	<0.5	----	<0.5	----
1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	----	<0.5	----	<0.5	----
1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	----	<0.5	----	<0.5	----
1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	----	<0.5	----	<0.5	----
1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	----	<0.5	----	<0.5	----
EP074G: Trihalomethanes								
Chloroform	67-66-3	0.5	mg/kg	----	<0.5	----	<0.5	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH108_17.0	BUR_BH106_0.2	BUR_BH106_1.0	BUR_BH106_2.0	BUR_BH106_3.0
			Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146625-011	ES2146625-012	ES2146625-013	ES2146625-014	ES2146625-015
				Result	Result	Result	Result	Result
EP074G: Trihalomethanes - Continued								
Bromodichloromethane	75-27-4	0.5	mg/kg	----	<0.5	----	<0.5	----
Dibromochloromethane	124-48-1	0.5	mg/kg	----	<0.5	----	<0.5	----
Bromoform	75-25-2	0.5	mg/kg	----	<0.5	----	<0.5	----
EP074H: Naphthalene								
Naphthalene	91-20-3	1	mg/kg	----	<1	----	<1	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	**0.6**	<0.5	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	**3.7**	<0.5	<0.5	<0.5
Anthracene	120-12-7	0.5	mg/kg	<0.5	**0.9**	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	**5.8**	<0.5	<0.5	<0.5
Pyrene	129-00-0	0.5	mg/kg	<0.5	**5.7**	<0.5	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	**2.6**	<0.5	<0.5	<0.5
Chrysene	218-01-9	0.5	mg/kg	<0.5	**2.5**	<0.5	<0.5	<0.5
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	**2.9**	<0.5	<0.5	<0.5
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	**1.1**	<0.5	<0.5	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	**2.4**	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	**1.2**	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	**1.4**	<0.5	<0.5	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	**30.8**	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	**3.2**	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	**0.6**	**3.5**	**0.6**	**0.6**	**0.6**
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	**1.2**	**3.7**	**1.2**	**1.2**	**1.2**
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	10	mg/kg	<10	<10	<10	<10	<10
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
C15 - C28 Fraction	----	100	mg/kg	<100	**120**	<100	<100	<100
C29 - C36 Fraction	----	100	mg/kg	<100	**130**	<100	<100	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	**250**	<50	<50	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	<10	<10	<10

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH108_17.0	BUR_BH106_0.2	BUR_BH106_1.0	BUR_BH106_2.0	BUR_BH106_3.0
			Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146625-011	ES2146625-012	ES2146625-013	ES2146625-014	ES2146625-015
				Result	Result	Result	Result	Result
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued								
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	<10	<10	<10	<10
>C10 - C16 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
>C16 - C34 Fraction	----	100	mg/kg	<100	**200**	<100	<100	<100
>C34 - C40 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	**200**	<50	<50	<50
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	<50	<50	<50	<50
EP080: BTEXN								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of BTEX	----	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
^ Total Xylenes	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	91-20-3	1	mg/kg	<1	<1	<1	<1	<1
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	5.0	µg/kg	----	<5.0	----	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	5.0	µg/kg	----	<5.0	----	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	5.0	µg/kg	----	<5.0	----	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	5.0	µg/kg	----	<5.0	----	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	5.0	µg/kg	----	<5.0	----	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	5.0	µg/kg	----	<5.0	----	----	----
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	5	µg/kg	----	<5	----	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	5.0	µg/kg	----	<5.0	----	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	5.0	µg/kg	----	<5.0	----	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	5.0	µg/kg	----	<5.0	----	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH108_17.0	BUR_BH106_0.2	BUR_BH106_1.0	BUR_BH106_2.0	BUR_BH106_3.0
			Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146625-011	ES2146625-012	ES2146625-013	ES2146625-014	ES2146625-015
				Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorooctanoic acid (PFOA)	335-67-1	5.0	µg/kg	----	<5.0	----	----	----
Perfluorononanoic acid (PFNA)	375-95-1	5.0	µg/kg	----	<5.0	----	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	5.0	µg/kg	----	<5.0	----	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	5.0	µg/kg	----	<5.0	----	----	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	5.0	µg/kg	----	<5.0	----	----	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	5.0	µg/kg	----	<5.0	----	----	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	5.0	µg/kg	----	<5.0	----	----	----
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	5.0	µg/kg	----	<5.0	----	----	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	5.0	µg/kg	----	<5.0	----	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	5.0	µg/kg	----	<5.0	----	----	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	5.0	µg/kg	----	<5.0	----	----	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	5.0	µg/kg	----	<5.0	----	----	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	5.0	µg/kg	----	<5.0	----	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	5.0	µg/kg	----	<5.0	----	----	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	5.0	µg/kg	----	<5.0	----	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	5.0	µg/kg	----	<5.0	----	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	5.0	µg/kg	----	<5.0	----	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH108_17.0	BUR_BH106_0.2	BUR_BH106_1.0	BUR_BH106_2.0	BUR_BH106_3.0
			Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146625-011	ES2146625-012	ES2146625-013	ES2146625-014	ES2146625-015
				Result	Result	Result	Result	Result
EP231D: (n:2) Fluorotelomer Sulfonic Acids - Continued								
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	5.0	µg/kg	----	<5.0	----	----	----
EP231P: PFAS Sums								
Sum of PFAS	----	5.0	µg/kg	----	<5.0	----	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	5.0	µg/kg	----	<5.0	----	----	----
Sum of PFAS (WA DER List)	----	5.0	µg/kg	----	<5.0	----	----	----
EP066S: PCB Surrogate								
Decachlorobiphenyl	2051-24-3	0.1	%	72.6	77.5	79.1	89.1	88.7
EP068S: Organochlorine Pesticide Surrogate								
Dibromo-DDE	21655-73-2	0.05	%	89.4	79.6	74.4	88.2	83.4
EP068T: Organophosphorus Pesticide Surrogate								
DEF	78-48-8	0.05	%	76.6	73.1	78.0	74.1	73.9
EP074S: VOC Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.5	%	----	77.8	----	84.2	----
Toluene-D8	2037-26-5	0.5	%	----	118	----	124	----
4-Bromofluorobenzene	460-00-4	0.5	%	----	106	----	118	----
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.5	%	100	85.2	94.8	95.8	91.6
2-Chlorophenol-D4	93951-73-6	0.5	%	97.9	80.0	92.9	93.8	90.1
2.4.6-Tribromophenol	118-79-6	0.5	%	82.9	66.5	84.3	83.7	79.5
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.5	%	103	94.5	97.4	98.0	94.5
Anthracene-d10	1719-06-8	0.5	%	107	95.1	102	100	94.8
4-Terphenyl-d14	1718-51-0	0.5	%	95.9	89.4	90.7	91.3	87.6
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	92.2	100	84.3	109	87.3
Toluene-D8	2037-26-5	0.2	%	105	105	91.6	110	92.8
4-Bromofluorobenzene	460-00-4	0.2	%	98.6	106	90.1	120	87.8
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	----	90.0	----	----	----
13C8-PFOA	----	0.0002	%	----	114	----	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH106_4.0	BUR_BH106_5.0	D02_20211217	BUR_BH107_0.2	BUR_BH107_1.0
			Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146625-016	ES2146625-017	ES2146625-018	ES2146625-019	ES2146625-020
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	0.1	%	8.6	8.5	8.0	16.5	26.6
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Asbestos Detected	1332-21-4	0.1	g/kg	----	----	----	No	----
Asbestos (Trace)	1332-21-4	5	Fibres	----	----	----	No	----
Asbestos Type	1332-21-4	-	--	----	----	----	-	----
Synthetic Mineral Fibre	----	0.1	g/kg	----	----	----	No	----
Organic Fibre	----	0.1	g/kg	----	----	----	No	----
Sample weight (dry)	----	0.01	g	----	----	----	287	----
APPROVED IDENTIFIER:	----	-	--	----	----	----	B.SCHRADER	----
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	10	12	8	5	8
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg	14	12	11	6	19
Copper	7440-50-8	5	mg/kg	52	61	45	62	5
Lead	7439-92-1	5	mg/kg	21	20	15	60	18
Nickel	7440-02-0	2	mg/kg	9	27	7	16	<2
Zinc	7440-66-6	5	mg/kg	46	144	34	82	8
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Total Chlordane (sum)	----	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH106_4.0	BUR_BH106_5.0	D02_20211217	BUR_BH107_0.2	BUR_BH107_1.0
			Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146625-016	ES2146625-017	ES2146625-018	ES2146625-019	ES2146625-020
				Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued								
Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
EP068B: Organophosphorus Pesticides (OP)								
Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
EP074A: Monocyclic Aromatic Hydrocarbons								

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH106_4.0	BUR_BH106_5.0	D02_20211217	BUR_BH107_0.2	BUR_BH107_1.0
			Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146625-016	ES2146625-017	ES2146625-018	ES2146625-019	ES2146625-020
				Result	Result	Result	Result	Result
EP074A: Monocyclic Aromatic Hydrocarbons - Continued								
Benzene	71-43-2	0.2	mg/kg	<0.2	----	<0.2	----	<0.2
Toluene	108-88-3	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Styrene	100-42-5	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Isopropylbenzene	98-82-8	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
n-Propylbenzene	103-65-1	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
sec-Butylbenzene	135-98-8	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
tert-Butylbenzene	98-06-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
p-Isopropyltoluene	99-87-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
n-Butylbenzene	104-51-8	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
EP074B: Oxygenated Compounds								
Vinyl Acetate	108-05-4	5	mg/kg	<5	----	<5	----	<5
2-Butanone (MEK)	78-93-3	5	mg/kg	<5	----	<5	----	<5
4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	<5	----	<5	----	<5
2-Hexanone (MBK)	591-78-6	5	mg/kg	<5	----	<5	----	<5
EP074C: Sulfonated Compounds								
Carbon disulfide	75-15-0	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
EP074D: Fumigants								
2.2-Dichloropropane	594-20-7	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.2-Dichloropropane	78-87-5	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
EP074E: Halogenated Aliphatic Compounds								
Dichlorodifluoromethane	75-71-8	5	mg/kg	<5	----	<5	----	<5
Chloromethane	74-87-3	5	mg/kg	<5	----	<5	----	<5
Vinyl chloride	75-01-4	5	mg/kg	<5	----	<5	----	<5
Bromomethane	74-83-9	5	mg/kg	<5	----	<5	----	<5
Chloroethane	75-00-3	5	mg/kg	<5	----	<5	----	<5
Trichlorofluoromethane	75-69-4	5	mg/kg	<5	----	<5	----	<5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH106_4.0	BUR_BH106_5.0	D02_20211217	BUR_BH107_0.2	BUR_BH107_1.0
			Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146625-016	ES2146625-017	ES2146625-018	ES2146625-019	ES2146625-020
				Result	Result	Result	Result	Result
EP074E: Halogenated Aliphatic Compounds - Continued								
1.1-Dichloroethene	75-35-4	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Iodomethane	74-88-4	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.1-Dichloroethane	75-34-3	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.1-Dichloropropylene	563-58-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Carbon Tetrachloride	56-23-5	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.2-Dichloroethane	107-06-2	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Trichloroethene	79-01-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Dibromomethane	74-95-3	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.3-Dichloropropane	142-28-9	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Tetrachloroethene	127-18-4	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Pentachloroethane	76-01-7	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
EP074F: Halogenated Aromatic Compounds								
Chlorobenzene	108-90-7	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Bromobenzene	108-86-1	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
2-Chlorotoluene	95-49-8	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
4-Chlorotoluene	106-43-4	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
EP074G: Trihalomethanes								
Chloroform	67-66-3	0.5	mg/kg	<0.5	----	<0.5	----	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH106_4.0	BUR_BH106_5.0	D02_20211217	BUR_BH107_0.2	BUR_BH107_1.0
			Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146625-016	ES2146625-017	ES2146625-018	ES2146625-019	ES2146625-020
				Result	Result	Result	Result	Result
EP074G: Trihalomethanes - Continued								
Bromodichloromethane	75-27-4	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Dibromochloromethane	124-48-1	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Bromoform	75-25-2	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
EP074H: Naphthalene								
Naphthalene	91-20-3	1	mg/kg	<1	----	<1	----	<1
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	<0.5	**0.5**	<0.5
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	<0.5	**0.5**	<0.5
Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	<0.5	**1.0**	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	**1.2**	**1.2**	**1.2**	**1.2**	**1.2**
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	10	mg/kg	<10	<10	<10	<10	<10
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
C15 - C28 Fraction	----	100	mg/kg	<100	<100	<100	**170**	<100
C29 - C36 Fraction	----	100	mg/kg	<100	<100	<100	**370**	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	<50	**540**	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	<10	<10	<10

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH106_4.0	BUR_BH106_5.0	D02_20211217	BUR_BH107_0.2	BUR_BH107_1.0
			Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146625-016	ES2146625-017	ES2146625-018	ES2146625-019	ES2146625-020
				Result	Result	Result	Result	Result
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued								
^ **C6 - C10 Fraction minus BTEX (F1)**	C6_C10-BTEX	10	mg/kg	<10	<10	<10	<10	<10
>C10 - C16 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
>C16 - C34 Fraction	----	100	mg/kg	<100	<100	<100	**410**	<100
>C34 - C40 Fraction	----	100	mg/kg	<100	<100	<100	**400**	<100
^ **>C10 - C40 Fraction (sum)**	----	50	mg/kg	<50	<50	<50	**810**	<50
^ **>C10 - C16 Fraction minus Naphthalene (F2)**	----	50	mg/kg	<50	<50	<50	<50	<50
EP080: BTEXN								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ **Sum of BTEX**	----	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
^ **Total Xylenes**	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	91-20-3	1	mg/kg	<1	<1	<1	<1	<1
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	5	µg/kg	<5	----	<5	<5	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
Perfluorohexanoic acid (PFHxA)	307-24-4	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	5.0	µg/kg	<5.0	----	<5.0	<5.0	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH106_4.0	BUR_BH106_5.0	D02_20211217	BUR_BH107_0.2	BUR_BH107_1.0
			Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146625-016	ES2146625-017	ES2146625-018	ES2146625-019	ES2146625-020
				Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorooctanoic acid (PFOA)	335-67-1	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
Perfluorononanoic acid (PFNA)	375-95-1	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
Perfluorodecanoic acid (PFDA)	335-76-2	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	5.0	µg/kg	<5.0	----	<5.0	<5.0	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH106_4.0	BUR_BH106_5.0	D02_20211217	BUR_BH107_0.2	BUR_BH107_1.0
			Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146625-016	ES2146625-017	ES2146625-018	ES2146625-019	ES2146625-020
				Result	Result	Result	Result	Result
EP231D: (n:2) Fluorotelomer Sulfonic Acids - Continued								
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
EP231P: PFAS Sums								
Sum of PFAS	----	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
Sum of PFAS (WA DER List)	----	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
EP066S: PCB Surrogate								
Decachlorobiphenyl	2051-24-3	0.1	%	110	83.0	87.1	74.7	96.7
EP068S: Organochlorine Pesticide Surrogate								
Dibromo-DDE	21655-73-2	0.05	%	127	94.3	91.1	83.5	97.5
EP068T: Organophosphorus Pesticide Surrogate								
DEF	78-48-8	0.05	%	94.6	78.4	71.6	85.1	92.0
EP074S: VOC Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.5	%	92.7	----	118	----	122
Toluene-D8	2037-26-5	0.5	%	91.9	----	109	----	121
4-Bromofluorobenzene	460-00-4	0.5	%	81.0	----	100	----	109
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.5	%	95.9	93.5	95.1	91.4	93.7
2-Chlorophenol-D4	93951-73-6	0.5	%	93.8	91.4	92.7	88.8	89.8
2.4.6-Tribromophenol	118-79-6	0.5	%	79.3	72.5	75.9	79.9	82.2
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.5	%	98.7	95.3	97.5	96.1	95.3
Anthracene-d10	1719-06-8	0.5	%	99.7	96.4	96.2	98.1	100
4-Terphenyl-d14	1718-51-0	0.5	%	91.7	87.9	91.0	90.0	89.2
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	80.0	95.4	102	80.1	105
Toluene-D8	2037-26-5	0.2	%	85.7	106	102	87.6	112
4-Bromofluorobenzene	460-00-4	0.2	%	83.9	93.4	103	84.7	111
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	98.5	----	97.0	95.5	----
13C8-PFOA	----	0.0002	%	116	----	113	118	----

Analytical Results

Sub-Matrix: **SOIL**
(Matrix: **SOIL**)

Compound	CAS Number	LOR	Unit	Sample ID	BUR_BH107_3.0	BUR_BH107_5.0	BUR_BH102_0.15 Received as extra sample	Trip Blank 1 Received as extra sample	Trip Spike 23 Received as extra sample
				Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	16-Dec-2021 00:00	15-Dec-2021 00:00	13-Dec-2021 00:00
					ES2146625-022	ES2146625-023	ES2146625-024	ES2146625-025	ES2146625-026
					Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	0.1	%		**11.5**	**8.4**	----	----	----
EA200: AS 4964 - 2004 Identification of Asbestos in Soils									
Asbestos Detected	1332-21-4	0.1	g/kg		----	----	**No**	----	----
Asbestos (Trace)	1332-21-4	5	Fibres		----	----	**No**	----	----
Asbestos Type	1332-21-4	-	--		----	----	**-**	----	----
Synthetic Mineral Fibre	----	0.1	g/kg		----	----	**No**	----	----
Organic Fibre	----	0.1	g/kg		----	----	**No**	----	----
Sample weight (dry)	----	0.01	g		----	----	**125**	----	----
APPROVED IDENTIFIER:	----	-	--		----	----	**B.SCHRADER**	----	----
EG005(ED093)T: Total Metals by ICP-AES									
Arsenic	7440-38-2	5	mg/kg		**12**	**9**	----	----	----
Cadmium	7440-43-9	1	mg/kg		<1	<1	----	----	----
Chromium	7440-47-3	2	mg/kg		**10**	**13**	----	----	----
Copper	7440-50-8	5	mg/kg		**20**	**69**	----	----	----
Lead	7439-92-1	5	mg/kg		**10**	**20**	----	----	----
Nickel	7440-02-0	2	mg/kg		<2	**43**	----	----	----
Zinc	7440-66-6	5	mg/kg		**8**	**194**	----	----	----
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg		<0.1	<0.1	----	----	----
EP066: Polychlorinated Biphenyls (PCB)									
Total Polychlorinated biphenyls	----	0.1	mg/kg		<0.1	<0.1	----	----	----
EP068A: Organochlorine Pesticides (OC)									
alpha-BHC	319-84-6	0.05	mg/kg		<0.05	<0.05	----	----	----
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg		<0.05	<0.05	----	----	----
beta-BHC	319-85-7	0.05	mg/kg		<0.05	<0.05	----	----	----
gamma-BHC	58-89-9	0.05	mg/kg		<0.05	<0.05	----	----	----
delta-BHC	319-86-8	0.05	mg/kg		<0.05	<0.05	----	----	----
Heptachlor	76-44-8	0.05	mg/kg		<0.05	<0.05	----	----	----
Aldrin	309-00-2	0.05	mg/kg		<0.05	<0.05	----	----	----
Heptachlor epoxide	1024-57-3	0.05	mg/kg		<0.05	<0.05	----	----	----
^ **Total Chlordane (sum)**	----	0.05	mg/kg		<0.05	<0.05	----	----	----
trans-Chlordane	5103-74-2	0.05	mg/kg		<0.05	<0.05	----	----	----
alpha-Endosulfan	959-98-8	0.05	mg/kg		<0.05	<0.05	----	----	----

Analytical Results

Sub-Matrix: **SOIL**
(Matrix: **SOIL**)

				Sample ID	BUR_BH107_3.0	BUR_BH107_5.0	BUR_BH102_0.15 Received as extra sample	Trip Blank 1 Received as extra sample	Trip Spike 23 Received as extra sample
				Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	16-Dec-2021 00:00	15-Dec-2021 00:00	13-Dec-2021 00:00
Compound	CAS Number	LOR	Unit		ES2146625-022	ES2146625-023	ES2146625-024	ES2146625-025	ES2146625-026
					Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued									
cis-Chlordane	5103-71-9	0.05	mg/kg		<0.05	<0.05	----	----	----
Dieldrin	60-57-1	0.05	mg/kg		<0.05	<0.05	----	----	----
4.4`-DDE	72-55-9	0.05	mg/kg		<0.05	<0.05	----	----	----
Endrin	72-20-8	0.05	mg/kg		<0.05	<0.05	----	----	----
beta-Endosulfan	33213-65-9	0.05	mg/kg		<0.05	<0.05	----	----	----
^ Endosulfan (sum)	115-29-7	0.05	mg/kg		<0.05	<0.05	----	----	----
4.4`-DDD	72-54-8	0.05	mg/kg		<0.05	<0.05	----	----	----
Endrin aldehyde	7421-93-4	0.05	mg/kg		<0.05	<0.05	----	----	----
Endosulfan sulfate	1031-07-8	0.05	mg/kg		<0.05	<0.05	----	----	----
4.4`-DDT	50-29-3	0.2	mg/kg		<0.2	<0.2	----	----	----
Endrin ketone	53494-70-5	0.05	mg/kg		<0.05	<0.05	----	----	----
Methoxychlor	72-43-5	0.2	mg/kg		<0.2	<0.2	----	----	----
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg		<0.05	<0.05	----	----	----
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.05	mg/kg		<0.05	<0.05	----	----	----
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.05	mg/kg		<0.05	<0.05	----	----	----
Demeton-S-methyl	919-86-8	0.05	mg/kg		<0.05	<0.05	----	----	----
Monocrotophos	6923-22-4	0.2	mg/kg		<0.2	<0.2	----	----	----
Dimethoate	60-51-5	0.05	mg/kg		<0.05	<0.05	----	----	----
Diazinon	333-41-5	0.05	mg/kg		<0.05	<0.05	----	----	----
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg		<0.05	<0.05	----	----	----
Parathion-methyl	298-00-0	0.2	mg/kg		<0.2	<0.2	----	----	----
Malathion	121-75-5	0.05	mg/kg		<0.05	<0.05	----	----	----
Fenthion	55-38-9	0.05	mg/kg		<0.05	<0.05	----	----	----
Chlorpyrifos	2921-88-2	0.05	mg/kg		<0.05	<0.05	----	----	----
Parathion	56-38-2	0.2	mg/kg		<0.2	<0.2	----	----	----
Pirimphos-ethyl	23505-41-1	0.05	mg/kg		<0.05	<0.05	----	----	----
Chlorfenvinphos	470-90-6	0.05	mg/kg		<0.05	<0.05	----	----	----
Bromophos-ethyl	4824-78-6	0.05	mg/kg		<0.05	<0.05	----	----	----
Fenamiphos	22224-92-6	0.05	mg/kg		<0.05	<0.05	----	----	----
Prothiofos	34643-46-4	0.05	mg/kg		<0.05	<0.05	----	----	----
Ethion	563-12-2	0.05	mg/kg		<0.05	<0.05	----	----	----

Analytical Results

Sub-Matrix: **SOIL**
(Matrix: **SOIL**)

Compound	CAS Number	LOR	Unit	Sample ID	BUR_BH107_3.0	BUR_BH107_5.0	BUR_BH102_0.15 Received as extra sample	Trip Blank 1 Received as extra sample	Trip Spike 23 Received as extra sample
				Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	16-Dec-2021 00:00	15-Dec-2021 00:00	13-Dec-2021 00:00
					ES2146625-022	ES2146625-023	ES2146625-024	ES2146625-025	ES2146625-026
					Result	Result	Result	Result	Result
EP068B: Organophosphorus Pesticides (OP) - Continued									
Carbophenothion	786-19-6	0.05	mg/kg		<0.05	<0.05	----	----	----
Azinphos Methyl	86-50-0	0.05	mg/kg		<0.05	<0.05	----	----	----
EP074A: Monocyclic Aromatic Hydrocarbons									
Benzene	71-43-2	0.2	mg/kg		<0.2	<0.2	----	----	----
Toluene	108-88-3	0.5	mg/kg		<0.5	<0.5	----	----	----
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	<0.5	----	----	----
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	<0.5	----	----	----
Styrene	100-42-5	0.5	mg/kg		<0.5	<0.5	----	----	----
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	<0.5	----	----	----
Isopropylbenzene	98-82-8	0.5	mg/kg		<0.5	<0.5	----	----	----
n-Propylbenzene	103-65-1	0.5	mg/kg		<0.5	<0.5	----	----	----
1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg		<0.5	<0.5	----	----	----
sec-Butylbenzene	135-98-8	0.5	mg/kg		<0.5	<0.5	----	----	----
1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg		<0.5	<0.5	----	----	----
tert-Butylbenzene	98-06-6	0.5	mg/kg		<0.5	<0.5	----	----	----
p-Isopropyltoluene	99-87-6	0.5	mg/kg		<0.5	<0.5	----	----	----
n-Butylbenzene	104-51-8	0.5	mg/kg		<0.5	<0.5	----	----	----
EP074B: Oxygenated Compounds									
Vinyl Acetate	108-05-4	5	mg/kg		<5	<5	----	----	----
2-Butanone (MEK)	78-93-3	5	mg/kg		<5	<5	----	----	----
4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg		<5	<5	----	----	----
2-Hexanone (MBK)	591-78-6	5	mg/kg		<5	<5	----	----	----
EP074C: Sulfonated Compounds									
Carbon disulfide	75-15-0	0.5	mg/kg		<0.5	<0.5	----	----	----
EP074D: Fumigants									
2.2-Dichloropropane	594-20-7	0.5	mg/kg		<0.5	<0.5	----	----	----
1.2-Dichloropropane	78-87-5	0.5	mg/kg		<0.5	<0.5	----	----	----
cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg		<0.5	<0.5	----	----	----
trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg		<0.5	<0.5	----	----	----
1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg		<0.5	<0.5	----	----	----
EP074E: Halogenated Aliphatic Compounds									
Dichlorodifluoromethane	75-71-8	5	mg/kg		<5	<5	----	----	----
Chloromethane	74-87-3	5	mg/kg		<5	<5	----	----	----

Analytical Results

Sub-Matrix: **SOIL**
(Matrix: **SOIL**)

Compound	CAS Number	LOR	Unit	Sample ID	BUR_BH107_3.0	BUR_BH107_5.0	BUR_BH102_0.15 Received as extra sample	Trip Blank 1 Received as extra sample	Trip Spike 23 Received as extra sample
				Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	16-Dec-2021 00:00	15-Dec-2021 00:00	13-Dec-2021 00:00
					ES2146625-022	ES2146625-023	ES2146625-024	ES2146625-025	ES2146625-026
					Result	Result	Result	Result	Result
EP074E: Halogenated Aliphatic Compounds - Continued									
Vinyl chloride	75-01-4	5	mg/kg		<5	<5	----	----	----
Bromomethane	74-83-9	5	mg/kg		<5	<5	----	----	----
Chloroethane	75-00-3	5	mg/kg		<5	<5	----	----	----
Trichlorofluoromethane	75-69-4	5	mg/kg		<5	<5	----	----	----
1.1-Dichloroethene	75-35-4	0.5	mg/kg		<0.5	<0.5	----	----	----
Iodomethane	74-88-4	0.5	mg/kg		<0.5	<0.5	----	----	----
trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg		<0.5	<0.5	----	----	----
1.1-Dichloroethane	75-34-3	0.5	mg/kg		<0.5	<0.5	----	----	----
cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg		<0.5	<0.5	----	----	----
1.1.1-Trichloroethane	71-55-6	0.5	mg/kg		<0.5	<0.5	----	----	----
1.1-Dichloropropylene	563-58-6	0.5	mg/kg		<0.5	<0.5	----	----	----
Carbon Tetrachloride	56-23-5	0.5	mg/kg		<0.5	<0.5	----	----	----
1.2-Dichloroethane	107-06-2	0.5	mg/kg		<0.5	<0.5	----	----	----
Trichloroethene	79-01-6	0.5	mg/kg		<0.5	<0.5	----	----	----
Dibromomethane	74-95-3	0.5	mg/kg		<0.5	<0.5	----	----	----
1.1.2-Trichloroethane	79-00-5	0.5	mg/kg		<0.5	<0.5	----	----	----
1.3-Dichloropropane	142-28-9	0.5	mg/kg		<0.5	<0.5	----	----	----
Tetrachloroethene	127-18-4	0.5	mg/kg		<0.5	<0.5	----	----	----
1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg		<0.5	<0.5	----	----	----
trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg		<0.5	<0.5	----	----	----
cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg		<0.5	<0.5	----	----	----
1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg		<0.5	<0.5	----	----	----
1.2.3-Trichloropropane	96-18-4	0.5	mg/kg		<0.5	<0.5	----	----	----
Pentachloroethane	76-01-7	0.5	mg/kg		<0.5	<0.5	----	----	----
1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg		<0.5	<0.5	----	----	----
Hexachlorobutadiene	87-68-3	0.5	mg/kg		<0.5	<0.5	----	----	----
EP074F: Halogenated Aromatic Compounds									
Chlorobenzene	108-90-7	0.5	mg/kg		<0.5	<0.5	----	----	----
Bromobenzene	108-86-1	0.5	mg/kg		<0.5	<0.5	----	----	----
2-Chlorotoluene	95-49-8	0.5	mg/kg		<0.5	<0.5	----	----	----
4-Chlorotoluene	106-43-4	0.5	mg/kg		<0.5	<0.5	----	----	----
1.3-Dichlorobenzene	541-73-1	0.5	mg/kg		<0.5	<0.5	----	----	----
1.4-Dichlorobenzene	106-46-7	0.5	mg/kg		<0.5	<0.5	----	----	----

Analytical Results

Sub-Matrix: **SOIL**
(Matrix: **SOIL**)

Compound	CAS Number	LOR	Unit	Sample ID	BUR_BH107_3.0	BUR_BH107_5.0	BUR_BH102_0.15 Received as extra sample	Trip Blank 1 Received as extra sample	Trip Spike 23 Received as extra sample
				Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	16-Dec-2021 00:00	15-Dec-2021 00:00	13-Dec-2021 00:00
					ES2146625-022	ES2146625-023	ES2146625-024	ES2146625-025	ES2146625-026
					Result	Result	Result	Result	Result
EP074F: Halogenated Aromatic Compounds - Continued									
1.2-Dichlorobenzene	95-50-1	0.5	mg/kg		<0.5	<0.5	----	----	----
1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg		<0.5	<0.5	----	----	----
1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg		<0.5	<0.5	----	----	----
EP074G: Trihalomethanes									
Chloroform	67-66-3	0.5	mg/kg		<0.5	<0.5	----	----	----
Bromodichloromethane	75-27-4	0.5	mg/kg		<0.5	<0.5	----	----	----
Dibromochloromethane	124-48-1	0.5	mg/kg		<0.5	<0.5	----	----	----
Bromoform	75-25-2	0.5	mg/kg		<0.5	<0.5	----	----	----
EP074H: Naphthalene									
Naphthalene	91-20-3	1	mg/kg		<1	<1	----	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg		<0.5	<0.5	----	----	----
Acenaphthylene	208-96-8	0.5	mg/kg		<0.5	<0.5	----	----	----
Acenaphthene	83-32-9	0.5	mg/kg		<0.5	<0.5	----	----	----
Fluorene	86-73-7	0.5	mg/kg		<0.5	<0.5	----	----	----
Phenanthrene	85-01-8	0.5	mg/kg		<0.5	<0.5	----	----	----
Anthracene	120-12-7	0.5	mg/kg		<0.5	<0.5	----	----	----
Fluoranthene	206-44-0	0.5	mg/kg		<0.5	<0.5	----	----	----
Pyrene	129-00-0	0.5	mg/kg		<0.5	<0.5	----	----	----
Benz(a)anthracene	56-55-3	0.5	mg/kg		<0.5	<0.5	----	----	----
Chrysene	218-01-9	0.5	mg/kg		<0.5	<0.5	----	----	----
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg		<0.5	<0.5	----	----	----
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg		<0.5	<0.5	----	----	----
Benzo(a)pyrene	50-32-8	0.5	mg/kg		<0.5	<0.5	----	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		<0.5	<0.5	----	----	----
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		<0.5	<0.5	----	----	----
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		<0.5	<0.5	----	----	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg		<0.5	<0.5	----	----	----
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg		<0.5	<0.5	----	----	----
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg		**0.6**	**0.6**	----	----	----
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg		**1.2**	**1.2**	----	----	----
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg		<10	<10	----	<10	----

Analytical Results

Sub-Matrix: **SOIL**
(Matrix: **SOIL**)

Compound	CAS Number	LOR	Unit	Sample ID	BUR_BH107_3.0	BUR_BH107_5.0	BUR_BH102_0.15 Received as extra sample	Trip Blank 1 Received as extra sample	Trip Spike 23 Received as extra sample
				Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	16-Dec-2021 00:00	15-Dec-2021 00:00	13-Dec-2021 00:00
					ES2146625-022	ES2146625-023	ES2146625-024	ES2146625-025	ES2146625-026
					Result	Result	Result	Result	Result
EP080/071: Total Petroleum Hydrocarbons - Continued									
C10 - C14 Fraction	----	50	mg/kg		<50	<50	----	----	----
C15 - C28 Fraction	----	100	mg/kg		<100	<100	----	----	----
C29 - C36 Fraction	----	100	mg/kg		<100	<100	----	----	----
^ **C10 - C36 Fraction (sum)**	----	50	mg/kg		<50	<50	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		<10	<10	----	<10	----
^ **C6 - C10 Fraction minus BTEX (F1)**	C6_C10-BTEX	10	mg/kg		<10	<10	----	<10	----
>C10 - C16 Fraction	----	50	mg/kg		<50	<50	----	----	----
>C16 - C34 Fraction	----	100	mg/kg		<100	<100	----	----	----
>C34 - C40 Fraction	----	100	mg/kg		<100	<100	----	----	----
^ **>C10 - C40 Fraction (sum)**	----	50	mg/kg		<50	<50	----	----	----
^ **>C10 - C16 Fraction minus Naphthalene (F2)**	----	50	mg/kg		<50	<50	----	----	----
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		<0.2	<0.2	----	<0.2	**0.2**
Toluene	108-88-3	0.5	mg/kg		<0.5	<0.5	----	<0.5	**23.4**
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	<0.5	----	<0.5	**4.3**
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	<0.5	----	<0.5	**21.2**
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	<0.5	----	<0.5	**8.8**
^ **Sum of BTEX**	----	0.2	mg/kg		<0.2	<0.2	----	<0.2	**57.9**
^ **Total Xylenes**	----	0.5	mg/kg		<0.5	<0.5	----	<0.5	**30.0**
Naphthalene	91-20-3	1	mg/kg		<1	<1	----	<1	<1
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	5.0	µg/kg		<5.0	----	----	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	5.0	µg/kg		<5.0	----	----	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	5.0	µg/kg		<5.0	----	----	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	5.0	µg/kg		<5.0	----	----	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	5.0	µg/kg		<5.0	----	----	----	----

Analytical Results

Sub-Matrix: **SOIL**
(Matrix: **SOIL**)

Compound	CAS Number	LOR	Unit	Sample ID	BUR_BH107_3.0	BUR_BH107_5.0	BUR_BH102_0.15 Received as extra sample	Trip Blank 1 Received as extra sample	Trip Spike 23 Received as extra sample
				Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	16-Dec-2021 00:00	15-Dec-2021 00:00	13-Dec-2021 00:00
					ES2146625-022	ES2146625-023	ES2146625-024	ES2146625-025	ES2146625-026
					Result	Result	Result	Result	Result
EP231A: Perfluoroalkyl Sulfonic Acids - Continued									
Perfluorodecane sulfonic acid (PFDS)	335-77-3	5.0	µg/kg		<5.0	----	----	----	----
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	5	µg/kg		<5	----	----	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	5.0	µg/kg		<5.0	----	----	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	5.0	µg/kg		<5.0	----	----	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	5.0	µg/kg		<5.0	----	----	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	5.0	µg/kg		<5.0	----	----	----	----
Perfluorononanoic acid (PFNA)	375-95-1	5.0	µg/kg		<5.0	----	----	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	5.0	µg/kg		<5.0	----	----	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	5.0	µg/kg		<5.0	----	----	----	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	5.0	µg/kg		<5.0	----	----	----	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	5.0	µg/kg		<5.0	----	----	----	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	5.0	µg/kg		<5.0	----	----	----	----
EP231C: Perfluoroalkyl Sulfonamides									
Perfluorooctane sulfonamide (FOSA)	754-91-6	5.0	µg/kg		<5.0	----	----	----	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	5.0	µg/kg		<5.0	----	----	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	5.0	µg/kg		<5.0	----	----	----	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	5.0	µg/kg		<5.0	----	----	----	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	5.0	µg/kg		<5.0	----	----	----	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	5.0	µg/kg		<5.0	----	----	----	----

Analytical Results

Sub-Matrix: **SOIL**
(Matrix: **SOIL**)

Compound	CAS Number	LOR	Unit	Sample ID	BUR_BH107_3.0	BUR_BH107_5.0	BUR_BH102_0.15 Received as extra sample	Trip Blank 1 Received as extra sample	Trip Spike 23 Received as extra sample
				Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	16-Dec-2021 00:00	15-Dec-2021 00:00	13-Dec-2021 00:00
					ES2146625-022	ES2146625-023	ES2146625-024	ES2146625-025	ES2146625-026
					Result	Result	Result	Result	Result
EP231C: Perfluoroalkyl Sulfonamides - Continued									
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	5.0	µg/kg		<5.0	----	----	----	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	5.0	µg/kg		<5.0	----	----	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	5.0	µg/kg		<5.0	----	----	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	5.0	µg/kg		<5.0	----	----	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	5.0	µg/kg		<5.0	----	----	----	----
EP231P: PFAS Sums									
Sum of PFAS	----	5.0	µg/kg		<5.0	----	----	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	5.0	µg/kg		<5.0	----	----	----	----
Sum of PFAS (WA DER List)	----	5.0	µg/kg		<5.0	----	----	----	----
EP066S: PCB Surrogate									
Decachlorobiphenyl	2051-24-3	0.1	%		**99.1**	**95.8**	----	----	----
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%		**117**	**117**	----	----	----
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%		**84.1**	**82.3**	----	----	----
EP074S: VOC Surrogates									
1.2-Dichloroethane-D4	17060-07-0	0.5	%		**121**	**117**	----	----	----
Toluene-D8	2037-26-5	0.5	%		**112**	**113**	----	----	----
4-Bromofluorobenzene	460-00-4	0.5	%		**104**	**111**	----	----	----
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%		**90.3**	**91.3**	----	----	----
2-Chlorophenol-D4	93951-73-6	0.5	%		**96.4**	**100**	----	----	----
2.4.6-Tribromophenol	118-79-6	0.5	%		**91.8**	**87.1**	----	----	----
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%		**106**	**109**	----	----	----

Analytical Results

Sub-Matrix: **SOIL**
(Matrix: **SOIL**)

				Sample ID	BUR_BH107_3.0	BUR_BH107_5.0	BUR_BH102_0.15 Received as extra sample	Trip Blank 1 Received as extra sample	Trip Spike 23 Received as extra sample
				Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	16-Dec-2021 00:00	15-Dec-2021 00:00	13-Dec-2021 00:00
Compound	CAS Number	LOR	Unit		ES2146625-022	ES2146625-023	ES2146625-024	ES2146625-025	ES2146625-026
					Result	Result	Result	Result	Result
EP075(SIM)T: PAH Surrogates - Continued									
Anthracene-d10	1719-06-8	0.5	%		**98.4**	**101**	**----**	**----**	**----**
4-Terphenyl-d14	1718-51-0	0.5	%		**101**	**104**	**----**	**----**	**----**
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	0.2	%		**104**	**101**	**----**	**108**	**95.2**
Toluene-D8	2037-26-5	0.2	%		**104**	**106**	**----**	**107**	**110**
4-Bromofluorobenzene	460-00-4	0.2	%		**106**	**114**	**----**	**86.1**	**109**
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.0002	%		**95.0**	**----**	**----**	**----**	**----**
13C8-PFOA	----	0.0002	%		**117**	**----**	**----**	**----**	**----**

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	TSC 23	----	----	----	----
			Sampling date / time	13-Dec-2021 00:00	----	----	----	----
Compound	CAS Number	LOR	Unit	ES2146625-027	--------	--------	--------	--------
				Result	----	----	----	----
EP080: BTEXN								
Benzene	71-43-2	0.2	mg/kg	**0.3**	----	----	----	----
Toluene	108-88-3	0.5	mg/kg	**27.8**	----	----	----	----
Ethylbenzene	100-41-4	0.5	mg/kg	**5.0**	----	----	----	----
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	**24.7**	----	----	----	----
ortho-Xylene	95-47-6	0.5	mg/kg	**10.2**	----	----	----	----
^ **Sum of BTEX**	----	0.2	mg/kg	**68.0**	----	----	----	----
^ **Total Xylenes**	----	0.5	mg/kg	**34.9**	----	----	----	----
Naphthalene	91-20-3	1	mg/kg	<1	----	----	----	----
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	**95.7**	----	----	----	----
Toluene-D8	2037-26-5	0.2	%	**110**	----	----	----	----
4-Bromofluorobenzene	460-00-4	0.2	%	**111**	----	----	----	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	R03_20211217 Received as extra sample	----	----	----	----
			Sampling date / time	17-Dec-2021 00:00	----	----	----	----
Compound	CAS Number	LOR	Unit	ES2146625-031	--------	--------	--------	--------
				Result	----	----	----	----
EG020F: Dissolved Metals by ICP-MS								
Arsenic	7440-38-2	0.001	mg/L	<0.001	----	----	----	----
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	----	----	----	----
Chromium	7440-47-3	0.001	mg/L	<0.001	----	----	----	----
Copper	7440-50-8	0.001	mg/L	<0.001	----	----	----	----
Nickel	7440-02-0	0.001	mg/L	<0.001	----	----	----	----
Lead	7439-92-1	0.001	mg/L	<0.001	----	----	----	----
Zinc	7440-66-6	0.005	mg/L	<0.005	----	----	----	----
EG035F: Dissolved Mercury by FIMS								
Mercury	7439-97-6	0.0001	mg/L	<0.0001	----	----	----	----
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	20	µg/L	<20	----	----	----	----
C10 - C14 Fraction	----	50	µg/L	<50	----	----	----	----
C15 - C28 Fraction	----	100	µg/L	<100	----	----	----	----
C29 - C36 Fraction	----	50	µg/L	<50	----	----	----	----
^ **C10 - C36 Fraction (sum)**	----	50	µg/L	<50	----	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	20	µg/L	<20	----	----	----	----
^ **C6 - C10 Fraction minus BTEX (F1)**	C6_C10-BTEX	20	µg/L	<20	----	----	----	----
>C10 - C16 Fraction	----	100	µg/L	<100	----	----	----	----
>C16 - C34 Fraction	----	100	µg/L	<100	----	----	----	----
>C34 - C40 Fraction	----	100	µg/L	<100	----	----	----	----
^ **>C10 - C40 Fraction (sum)**	----	100	µg/L	<100	----	----	----	----
^ **>C10 - C16 Fraction minus Naphthalene (F2)**	----	100	µg/L	<100	----	----	----	----
EP080: BTEXN								
Benzene	71-43-2	1	µg/L	<1	----	----	----	----
Toluene	108-88-3	2	µg/L	<2	----	----	----	----
Ethylbenzene	100-41-4	2	µg/L	<2	----	----	----	----
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	----	----	----	----
ortho-Xylene	95-47-6	2	µg/L	<2	----	----	----	----
^ **Total Xylenes**	----	2	µg/L	<2	----	----	----	----
^ **Sum of BTEX**	----	1	µg/L	<1	----	----	----	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	R03_20211217 Received as extra sample	----	----	----	----
				Sampling date / time	17-Dec-2021 00:00	----	----	----	----
Compound	CAS Number	LOR	Unit		ES2146625-031	--------	--------	--------	--------
					Result	----	----	----	----
EP080: BTEXN - Continued									
Naphthalene	91-20-3	5	µg/L		<5	----	----	----	----
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L		<0.02	----	----	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L		<0.02	----	----	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L		<0.01	----	----	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L		<0.02	----	----	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L		<0.01	----	----	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L		<0.02	----	----	----	----
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L		<0.1	----	----	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L		<0.02	----	----	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L		<0.02	----	----	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L		<0.02	----	----	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L		<0.01	----	----	----	----
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L		<0.02	----	----	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L		<0.02	----	----	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L		<0.02	----	----	----	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L		<0.02	----	----	----	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L		<0.02	----	----	----	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L		<0.05	----	----	----	----
EP231C: Perfluoroalkyl Sulfonamides									
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L		<0.02	----	----	----	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	R03_20211217 Received as extra sample	----	----	----	----
				Sampling date / time	17-Dec-2021 00:00	----	----	----	----
Compound	CAS Number	LOR	Unit		ES2146625-031	--------	--------	--------	--------
					Result	----	----	----	----
EP231C: Perfluoroalkyl Sulfonamides - Continued									
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L		<0.05	----	----	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L		<0.05	----	----	----	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L		<0.05	----	----	----	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L		<0.05	----	----	----	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L		<0.02	----	----	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L		<0.02	----	----	----	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L		<0.05	----	----	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L		<0.05	----	----	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L		<0.05	----	----	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L		<0.05	----	----	----	----
EP231P: PFAS Sums									
Sum of PFAS	----	0.01	µg/L		<0.01	----	----	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L		<0.01	----	----	----	----
Sum of PFAS (WA DER List)	----	0.01	µg/L		<0.01	----	----	----	----
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	2	%		**104**	----	----	----	----
Toluene-D8	2037-26-5	2	%		**101**	----	----	----	----
4-Bromofluorobenzene	460-00-4	2	%		**104**	----	----	----	----
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.02	%		**83.0**	----	----	----	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	R03_20211217 Received as extra sample	----	----	----	----
				Sampling date / time	17-Dec-2021 00:00	----	----	----	----
Compound	CAS Number	LOR	Unit		ES2146625-031	--------	--------	--------	--------
					Result	----	----	----	----
EP231S: PFAS Surrogate - Continued									
13C8-PFOA	----	0.02	%		**89.6**	**----**	**----**	**----**	**----**

Analytical Results

Descriptive Results

Sub-Matrix: **SOIL**

Method: Compound	Sample ID - Sampling date / time	Analytical Results
EA200: AS 4964 - 2004 Identification of Asbestos in Soils		
EA200: Description	BUR_BH106_0.2 - 17-Dec-2021 00:00	A soil sample.
EA200: Description	BUR_BH107_0.2 - 17-Dec-2021 00:00	A soil sample.
EA200: Description	BUR_BH102_0.15Received as extra sample - 16-Dec-2021 00:00	A soil sample.

Surrogate Control Limits

Sub-Matrix: SOIL		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP066S: PCB Surrogate			
Decachlorobiphenyl	2051-24-3	39	149
EP068S: Organochlorine Pesticide Surrogate			
Dibromo-DDE	21655-73-2	49	147
EP068T: Organophosphorus Pesticide Surrogate			
DEF	78-48-8	35	143
EP074S: VOC Surrogates			
1.2-Dichloroethane-D4	17060-07-0	64	130
Toluene-D8	2037-26-5	66	136
4-Bromofluorobenzene	460-00-4	60	122
EP075(SIM)S: Phenolic Compound Surrogates			
Phenol-d6	13127-88-3	63	123
2-Chlorophenol-D4	93951-73-6	66	122
2.4.6-Tribromophenol	118-79-6	40	138
EP075(SIM)T: PAH Surrogates			
2-Fluorobiphenyl	321-60-8	70	122
Anthracene-d10	1719-06-8	66	128
4-Terphenyl-d14	1718-51-0	65	129
EP080S: TPH(V)/BTEX Surrogates			
1.2-Dichloroethane-D4	17060-07-0	73	133
Toluene-D8	2037-26-5	74	132
4-Bromofluorobenzene	460-00-4	72	130
EP231S: PFAS Surrogate			
13C4-PFOS	----	60	120
13C8-PFOA	----	60	120

Sub-Matrix: WATER		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP080S: TPH(V)/BTEX Surrogates			
1.2-Dichloroethane-D4	17060-07-0	71	137
Toluene-D8	2037-26-5	79	131
4-Bromofluorobenzene	460-00-4	70	128
EP231S: PFAS Surrogate			
13C4-PFOS	----	60	120
13C8-PFOA	----	60	120

Inter-Laboratory Testing

Analysis conducted by ALS Newcastle, NATA accreditation no. 825, site no. 1656 (Chemistry) 9854 (Biology).

(SOIL) EA200: AS 4964 - 2004 Identification of Asbestos in Soils

ALS Environmental

QUALITY CONTROL REPORT

Work Order	: **ES2146625**	Page	: 1 of 35
Amendment	: **1**		
Client	: **ENVIRONMENTAL RESOURCES MANAGEMENT (ERM)**	Laboratory	: Environmental Division Sydney
Contact	: MS JESSICA LAWRENCE	Contact	: Customer Services ES
Address	: LEVEL 15 309 KENT STREET SYDNEY NSW AUSTRALIA 2000	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: +61 02 8584 8888	Telephone	: +61-2-8784 8555
Project	: 0577577-Burwood	Date Samples Received	: 20-Dec-2021
Order number	: ----	Date Analysis Commenced	: 21-Dec-2021
C-O-C number	: ----	Issue Date	: 02-Feb-2022
Sampler	: TRISTAN RODRIGUES		
Site	: ----		
Quote number	: EN/114		
No. of samples received	: 31		
No. of samples analysed	: 27		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Alex Rossi	Organic Chemist	Sydney Organics, Smithfield, NSW
Brendan Schrader	Laboratory Technician	Newcastle - Asbestos, Mayfield West, NSW
Franco Lentini	LCMS Coordinator	Sydney Inorganics, Smithfield, NSW
Franco Lentini	LCMS Coordinator	Sydney Organics, Smithfield, NSW
Wisam Marassa	Inorganics Coordinator	Sydney Inorganics, Smithfield, NSW

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis. Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Key : Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot
CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
RPD = Relative Percentage Difference
# = Indicates failed QC

Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 4099599)									
ES2146505-001	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	3	2	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	<5	<5	0.0	No Limit
ES2146549-007	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	20	25	23.4	0% - 50%
		EG005T: Nickel	7440-02-0	2	mg/kg	4	4	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	5	7	22.4	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	14	13	0.0	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	30	24	24.8	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	207	200	3.4	0% - 20%
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 4099602)									
ES2146625-007	BUR_BH108_2.0	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	4	3	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	7	5	29.0	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	14	15	0.0	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	<5	<5	0.0	No Limit
ES2146625-017	BUR_BH106_5.0	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	12	12	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 4099602) - continued									
ES2146625-017	BUR_BH106_5.0	EG005T: Nickel	7440-02-0	2	mg/kg	27	24	10.8	0% - 50%
		EG005T: Arsenic	7440-38-2	5	mg/kg	12	10	13.1	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	61	58	6.1	0% - 50%
		EG005T: Lead	7439-92-1	5	mg/kg	20	20	0.0	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	144	130	10.7	0% - 20%
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 4099603)									
ES2146549-001	Anonymous	EA055: Moisture Content	----	0.1	%	10.8	7.6	34.9	0% - 50%
ES2146625-002	BUR_BH120_0.2	EA055: Moisture Content	----	0.1	%	21.8	21.5	1.5	0% - 20%
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 4099604)									
ES2146625-011	BUR_BH108_17.0	EA055: Moisture Content	----	0.1	%	4.6	4.4	4.1	0% - 20%
ES2146625-023	BUR_BH107_5.0	EA055: Moisture Content	----	0.1	%	8.4	9.1	8.3	0% - 20%
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 4099600)									
ES2146505-001	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
ES2146549-007	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 4099601)									
ES2146625-007	BUR_BH108_2.0	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
ES2146625-017	BUR_BH106_5.0	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP066: Polychlorinated Biphenyls (PCB) (QC Lot: 4091331)									
ES2146625-001	D03_20211217	EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
ES2146625-011	BUR_BH108_17.0	EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP066: Polychlorinated Biphenyls (PCB) (QC Lot: 4092878)									
ES2146549-001	Anonymous	EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
ES2146590-001	Anonymous	EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP068A: Organochlorine Pesticides (OC) (QC Lot: 4091330)									
ES2146625-001	D03_20211217	EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP068A: Organochlorine Pesticides (OC) (QC Lot: 4091330) - continued									
ES2146625-001	D03_20211217	EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
ES2146625-011	BUR_BH108_17.0	EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
EP068A: Organochlorine Pesticides (OC) (QC Lot: 4092877)									
ES2146549-001	Anonymous	EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP068A: Organochlorine Pesticides (OC) (QC Lot: 4092877) - continued									
ES2146549-001	Anonymous	EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
ES2146590-001	Anonymous	EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
EP068B: Organophosphorus Pesticides (OP) (QC Lot: 4091330)									
ES2146625-001	D03_20211217	EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP068B: Organophosphorus Pesticides (OP) (QC Lot: 4091330) - continued									
ES2146625-001	D03_20211217	EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
ES2146625-011	BUR_BH108_17.0	EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
EP068B: Organophosphorus Pesticides (OP) (QC Lot: 4092877)									
ES2146549-001	Anonymous	EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP068B: Organophosphorus Pesticides (OP) (QC Lot: 4092877) - continued									
ES2146549-001	Anonymous	EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
ES2146590-001	Anonymous	EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
EP074A: Monocyclic Aromatic Hydrocarbons (QC Lot: 4096910)									
ES2146615-002	Anonymous	EP074: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP074: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Styrene	100-42-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Isopropylbenzene	98-82-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: n-Propylbenzene	103-65-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: sec-Butylbenzene	135-98-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP074A: Monocyclic Aromatic Hydrocarbons (QC Lot: 4096910) - continued									
ES2146615-002	Anonymous	EP074: 1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: tert-Butylbenzene	98-06-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: p-Isopropyltoluene	99-87-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: n-Butylbenzene	104-51-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
ES2146625-014	BUR_BH106_2.0	EP074: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP074: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Styrene	100-42-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Isopropylbenzene	98-82-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: n-Propylbenzene	103-65-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: sec-Butylbenzene	135-98-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: tert-Butylbenzene	98-06-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: p-Isopropyltoluene	99-87-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: n-Butylbenzene	104-51-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP074B: Oxygenated Compounds (QC Lot: 4096910)									
ES2146615-002	Anonymous	EP074: Vinyl Acetate	108-05-4	5	mg/kg	<5	<5	0.0	No Limit
		EP074: 2-Butanone (MEK)	78-93-3	5	mg/kg	<5	<5	0.0	No Limit
		EP074: 4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	<5	<5	0.0	No Limit
		EP074: 2-Hexanone (MBK)	591-78-6	5	mg/kg	<5	<5	0.0	No Limit
ES2146625-014	BUR_BH106_2.0	EP074: Vinyl Acetate	108-05-4	5	mg/kg	<5	<5	0.0	No Limit
		EP074: 2-Butanone (MEK)	78-93-3	5	mg/kg	<5	<5	0.0	No Limit
		EP074: 4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	<5	<5	0.0	No Limit
		EP074: 2-Hexanone (MBK)	591-78-6	5	mg/kg	<5	<5	0.0	No Limit
EP074C: Sulfonated Compounds (QC Lot: 4096910)									
ES2146615-002	Anonymous	EP074: Carbon disulfide	75-15-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
ES2146625-014	BUR_BH106_2.0	EP074: Carbon disulfide	75-15-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP074D: Fumigants (QC Lot: 4096910)									
ES2146615-002	Anonymous	EP074: 2.2-Dichloropropane	594-20-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dichloropropane	78-87-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
ES2146625-014	BUR_BH106_2.0	EP074: 2.2-Dichloropropane	594-20-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dichloropropane	78-87-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP074D: Fumigants (QC Lot: 4096910) - continued									
ES2146625-014	BUR_BH106_2.0	EP074: trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP074E: Halogenated Aliphatic Compounds (QC Lot: 4096910)									
ES2146615-002	Anonymous	EP074: 1.1-Dichloroethene	75-35-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Iodomethane	74-88-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1-Dichloroethane	75-34-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1-Dichloropropylene	563-58-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Carbon Tetrachloride	56-23-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dichloroethane	107-06-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Trichloroethene	79-01-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Dibromomethane	74-95-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.3-Dichloropropane	142-28-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Tetrachloroethene	127-18-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Pentachloroethane	76-01-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Dichlorodifluoromethane	75-71-8	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Chloromethane	74-87-3	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Vinyl chloride	75-01-4	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Bromomethane	74-83-9	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Chloroethane	75-00-3	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Trichlorofluoromethane	75-69-4	5	mg/kg	<5	<5	0.0	No Limit
ES2146625-014	BUR_BH106_2.0	EP074: 1.1-Dichloroethene	75-35-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Iodomethane	74-88-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1-Dichloroethane	75-34-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1-Dichloropropylene	563-58-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Carbon Tetrachloride	56-23-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dichloroethane	107-06-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP074E: Halogenated Aliphatic Compounds (QC Lot: 4096910) - continued									
ES2146625-014	BUR_BH106_2.0	EP074: Trichloroethene	79-01-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Dibromomethane	74-95-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.3-Dichloropropane	142-28-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Tetrachloroethene	127-18-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Pentachloroethane	76-01-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Dichlorodifluoromethane	75-71-8	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Chloromethane	74-87-3	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Vinyl chloride	75-01-4	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Bromomethane	74-83-9	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Chloroethane	75-00-3	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Trichlorofluoromethane	75-69-4	5	mg/kg	<5	<5	0.0	No Limit
EP074F: Halogenated Aromatic Compounds (QC Lot: 4096910)									
ES2146615-002	Anonymous	EP074: Chlorobenzene	108-90-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Bromobenzene	108-86-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 2-Chlorotoluene	95-49-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 4-Chlorotoluene	106-43-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
ES2146625-014	BUR_BH106_2.0	EP074: Chlorobenzene	108-90-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Bromobenzene	108-86-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 2-Chlorotoluene	95-49-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 4-Chlorotoluene	106-43-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP074G: Trihalomethanes (QC Lot: 4096910)									
ES2146615-002	Anonymous	EP074: Chloroform	67-66-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP074G: Trihalomethanes (QC Lot: 4096910) - continued									
ES2146615-002	Anonymous	EP074: Bromodichloromethane	75-27-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Dibromochloromethane	124-48-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Bromoform	75-25-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
ES2146625-014	BUR_BH106_2.0	EP074: Chloroform	67-66-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Bromodichloromethane	75-27-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Dibromochloromethane	124-48-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Bromoform	75-25-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP074H: Naphthalene (QC Lot: 4096910)									
ES2146615-002	Anonymous	EP074: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
ES2146625-014	BUR_BH106_2.0	EP074: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 4091329)									
ES2146625-001	D03_20211217	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
ES2146625-011	BUR_BH108_17.0	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 4091329) - continued									
ES2146625-011	BUR_BH108_17.0	EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 4092873)									
ES2146549-001	Anonymous	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
ES2146590-001	Anonymous	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 4092873) - continued									
ES2146590-001	Anonymous	EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4091328)									
ES2146625-001	D03_20211217	EP071: C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
ES2146625-011	BUR_BH108_17.0	EP071: C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4092876)									
ES2146549-001	Anonymous	EP071: C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
ES2146590-001	Anonymous	EP071: C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4096909)									
ES2146615-002	Anonymous	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
ES2146625-014	BUR_BH106_2.0	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4097205)									
ES2146459-004	Anonymous	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
ES2146549-003	Anonymous	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4097220)									
ES2146346-034	Anonymous	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
ES2146625-003	BUR_BH120_0.5	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4091328)									
ES2146625-001	D03_20211217	EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4091328) - continued									
ES2146625-011	BUR_BH108_17.0	EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4092876)									
ES2146549-001	Anonymous	EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
ES2146590-001	Anonymous	EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4096909)									
ES2146615-002	Anonymous	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
ES2146625-014	BUR_BH106_2.0	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4097205)									
ES2146459-004	Anonymous	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
ES2146549-003	Anonymous	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4097220)									
ES2146346-034	Anonymous	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
ES2146625-003	BUR_BH120_0.5	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
EP080: BTEXN (QC Lot: 4096909)									
ES2146615-002	Anonymous	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
ES2146625-014	BUR_BH106_2.0	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
EP080: BTEXN (QC Lot: 4097205)									
ES2146459-004	Anonymous	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP080: BTEXN (QC Lot: 4097205) - continued									
ES2146459-004	Anonymous	EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
ES2146549-003	Anonymous	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
EP080: BTEXN (QC Lot: 4097220)									
ES2146346-034	Anonymous	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
ES2146625-003	BUR_BH120_0.5	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 4102556)									
ES2146459-001	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
ES2146625-004	BUR_BH108_0.2	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4102556)									

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4102556) - continued									
ES2146459-001	Anonymous	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	<0.001	0.0	No Limit
ES2146625-004	BUR_BH108_0.2	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<5 µg/kg	<0.005	0.0	No Limit
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4102556)									
ES2146459-001	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
ES2146625-004	BUR_BH108_0.2	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit

Sub-Matrix: **SOIL**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report					
				LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4102556) - continued									
ES2146625-004	BUR_BH108_0.2	EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4102556)									
ES2146459-001	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
ES2146625-004	BUR_BH108_0.2	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit

Sub-Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report					
				LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EG020F: Dissolved Metals by ICP-MS (QC Lot: 4098106)									
ES2146547-007	Anonymous	EG020A-F: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
		EG020A-F: Arsenic	7440-38-2	0.001	mg/L	0.014	0.014	0.0	0% - 50%
		EG020A-F: Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-F: Copper	7440-50-8	0.001	mg/L	0.003	0.003	0.0	No Limit
		EG020A-F: Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-F: Nickel	7440-02-0	0.001	mg/L	0.002	0.002	0.0	No Limit
		EG020A-F: Zinc	7440-66-6	0.005	mg/L	0.129	0.126	1.8	0% - 20%
ES2146547-018	Anonymous	EG020A-F: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
		EG020A-F: Arsenic	7440-38-2	0.001	mg/L	0.002	0.002	0.0	No Limit
		EG020A-F: Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-F: Copper	7440-50-8	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-F: Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	0.0	No Limit

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EG020F: Dissolved Metals by ICP-MS (QC Lot: 4098106) - continued									
ES2146547-018	Anonymous	EG020A-F: Nickel	7440-02-0	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-F: Zinc	7440-66-6	0.005	mg/L	0.006	0.006	0.0	No Limit
EG035F: Dissolved Mercury by FIMS (QC Lot: 4098107)									
ES2146547-010	Anonymous	EG035F: Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
ES2146547-018	Anonymous	EG035F: Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4100888)									
ES2146555-001	Anonymous	EP080: C6 - C9 Fraction	----	20	µg/L	<20	<20	0.0	No Limit
ES2146625-031	R03_20211217 Received as extra sample	EP080: C6 - C9 Fraction	----	20	µg/L	<20	<20	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4100888)									
ES2146555-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	<20	0.0	No Limit
ES2146625-031	R03_20211217 Received as extra sample	EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	<20	0.0	No Limit
EP080: BTEXN (QC Lot: 4100888)									
ES2146555-001	Anonymous	EP080: Benzene	71-43-2	1	µg/L	<1	<1	0.0	No Limit
		EP080: Toluene	108-88-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	2	µg/L	<2	<2	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	2	µg/L	<2	<2	0.0	No Limit
		EP080: Naphthalene	91-20-3	5	µg/L	<5	<5	0.0	No Limit
ES2146625-031	R03_20211217 Received as extra sample	EP080: Benzene	71-43-2	1	µg/L	<1	<1	0.0	No Limit
		EP080: Toluene	108-88-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	2	µg/L	<2	<2	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	2	µg/L	<2	<2	0.0	No Limit
		EP080: Naphthalene	91-20-3	5	µg/L	<5	<5	0.0	No Limit
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 4101407)									
ES2146625-031	R03_20211217 Received as extra sample	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4101407)									

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4101407) - continued									
ES2146625-031	R03_20211217 Received as extra sample	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	0.0	No Limit
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4101407)									
ES2146625-031	R03_20211217 Received as extra sample	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4101407)									
ES2146625-031	R03_20211217 Received as extra sample	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231P: PFAS Sums (QC Lot: 4101407)									
ES2146625-031	R03_20211217 Received as extra sample	EP231X: Sum of PFAS	----	0.01	µg/L	<0.01	<0.01	0.0	No Limit

Method Blank (MB) and Laboratory Control Sample (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Sample (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

Sub-Matrix: **SOIL**

				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4099599)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	121.1 mg/kg	90.6	88.0	113
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	0.74 mg/kg	83.5	70.0	130
EG005T: Chromium	7440-47-3	2	mg/kg	<2	19.6 mg/kg	103	68.0	132
EG005T: Copper	7440-50-8	5	mg/kg	<5	52.9 mg/kg	102	89.0	111
EG005T: Lead	7439-92-1	5	mg/kg	<5	60.8 mg/kg	96.4	82.0	119
EG005T: Nickel	7440-02-0	2	mg/kg	<2	15.3 mg/kg	99.8	80.0	120
EG005T: Zinc	7440-66-6	5	mg/kg	<5	139.3 mg/kg	84.6	66.0	133
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4099602)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	121.1 mg/kg	94.2	88.0	113
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	0.74 mg/kg	82.6	70.0	130
EG005T: Chromium	7440-47-3	2	mg/kg	<2	19.6 mg/kg	99.2	68.0	132
EG005T: Copper	7440-50-8	5	mg/kg	<5	52.9 mg/kg	98.2	89.0	111
EG005T: Lead	7439-92-1	5	mg/kg	<5	60.8 mg/kg	92.6	82.0	119
EG005T: Nickel	7440-02-0	2	mg/kg	<2	15.3 mg/kg	91.8	80.0	120
EG005T: Zinc	7440-66-6	5	mg/kg	<5	139.3 mg/kg	84.8	66.0	133
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4099600)								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.087 mg/kg	86.2	70.0	125
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4099601)								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.087 mg/kg	98.3	70.0	125
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 4091331)								
EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	1 mg/kg	91.0	62.0	126
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 4092878)								
EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	1 mg/kg	86.1	62.0	126
EP068A: Organochlorine Pesticides (OC) (QCLot: 4091330)								
EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	0.5 mg/kg	95.1	69.0	113
EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	0.5 mg/kg	93.6	65.0	117
EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	0.5 mg/kg	100	67.0	119
EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	0.5 mg/kg	99.9	68.0	116
EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	97.2	65.0	117
EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	0.5 mg/kg	96.0	67.0	115
EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	0.5 mg/kg	101	69.0	115
EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	0.5 mg/kg	98.2	62.0	118
EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	0.5 mg/kg	97.0	63.0	117

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP068A: Organochlorine Pesticides (OC) (QCLot: 4091330) - continued								
EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	0.5 mg/kg	99.3	66.0	116
EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	0.5 mg/kg	101	64.0	116
EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	0.5 mg/kg	97.6	66.0	116
EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	0.5 mg/kg	97.0	67.0	115
EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	0.5 mg/kg	90.3	67.0	123
EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	0.5 mg/kg	101	69.0	115
EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	0.5 mg/kg	97.2	69.0	121
EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	0.5 mg/kg	114	56.0	120
EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	0.5 mg/kg	109	62.0	124
EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	0.5 mg/kg	106	66.0	120
EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	0.5 mg/kg	107	64.0	122
EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	0.5 mg/kg	100	54.0	130
EP068A: Organochlorine Pesticides (OC) (QCLot: 4092877)								
EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	0.5 mg/kg	87.3	69.0	113
EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	0.5 mg/kg	82.7	65.0	117
EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	0.5 mg/kg	93.3	67.0	119
EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	0.5 mg/kg	91.4	68.0	116
EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	109	65.0	117
EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	0.5 mg/kg	91.6	67.0	115
EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	0.5 mg/kg	92.6	69.0	115
EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	0.5 mg/kg	90.4	62.0	118
EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	0.5 mg/kg	93.0	63.0	117
EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	0.5 mg/kg	95.2	66.0	116
EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	0.5 mg/kg	86.4	64.0	116
EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	0.5 mg/kg	97.9	66.0	116
EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	0.5 mg/kg	96.0	67.0	115
EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	0.5 mg/kg	100	67.0	123
EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	0.5 mg/kg	97.7	69.0	115
EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	0.5 mg/kg	98.0	69.0	121
EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	0.5 mg/kg	92.8	56.0	120
EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	0.5 mg/kg	92.1	62.0	124
EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	0.5 mg/kg	91.4	66.0	120
EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	0.5 mg/kg	81.3	64.0	122
EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	0.5 mg/kg	89.4	54.0	130
EP068B: Organophosphorus Pesticides (OP) (QCLot: 4091330)								
EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	0.5 mg/kg	72.2	59.0	119
EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	89.2	62.0	128
EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	0.5 mg/kg	57.5	54.0	126
EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	0.5 mg/kg	81.6	67.0	119

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP068B: Organophosphorus Pesticides (OP) (QCLot: 4091330) - continued								
EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	0.5 mg/kg	100	70.0	120
EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	0.5 mg/kg	95.2	72.0	120
EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	0.5 mg/kg	83.0	68.0	120
EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	0.5 mg/kg	91.2	68.0	122
EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	0.5 mg/kg	98.2	69.0	117
EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	0.5 mg/kg	95.6	76.0	118
EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	0.5 mg/kg	86.7	64.0	122
EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	0.5 mg/kg	99.4	70.0	116
EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	0.5 mg/kg	103	69.0	121
EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	0.5 mg/kg	91.8	66.0	118
EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	0.5 mg/kg	82.0	68.0	124
EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	0.5 mg/kg	95.6	62.0	112
EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	0.5 mg/kg	95.9	68.0	120
EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	0.5 mg/kg	83.1	65.0	127
EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	0.5 mg/kg	80.7	41.0	123
EP068B: Organophosphorus Pesticides (OP) (QCLot: 4092877)								
EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	0.5 mg/kg	71.4	59.0	119
EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	101	62.0	128
EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	0.5 mg/kg	73.5	54.0	126
EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	0.5 mg/kg	86.1	67.0	119
EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	0.5 mg/kg	99.9	70.0	120
EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	0.5 mg/kg	89.9	72.0	120
EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	0.5 mg/kg	87.0	68.0	120
EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	0.5 mg/kg	95.1	68.0	122
EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	0.5 mg/kg	89.8	69.0	117
EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	0.5 mg/kg	94.7	76.0	118
EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	0.5 mg/kg	91.7	64.0	122
EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	0.5 mg/kg	88.8	70.0	116
EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	0.5 mg/kg	95.9	69.0	121
EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	0.5 mg/kg	86.3	66.0	118
EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	0.5 mg/kg	86.9	68.0	124
EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	0.5 mg/kg	91.0	62.0	112
EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	0.5 mg/kg	94.2	68.0	120
EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	0.5 mg/kg	82.5	65.0	127
EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	0.5 mg/kg	73.6	41.0	123
EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 4096910)								
EP074: Benzene	71-43-2	0.2	mg/kg	<0.2	1 mg/kg	103	71.0	121
EP074: Toluene	108-88-3	0.5	mg/kg	<0.5	1 mg/kg	103	65.0	131
EP074: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	1 mg/kg	109	72.0	114

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 4096910) - continued								
EP074: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	2 mg/kg	113	70.0	116
EP074: Styrene	100-42-5	0.5	mg/kg	<0.5	1 mg/kg	111	67.0	113
EP074: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	1 mg/kg	112	75.0	115
EP074: Isopropylbenzene	98-82-8	0.5	mg/kg	<0.5	1 mg/kg	112	65.0	117
EP074: n-Propylbenzene	103-65-1	0.5	mg/kg	<0.5	1 mg/kg	104	66.0	122
EP074: 1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	<0.5	1 mg/kg	104	68.0	118
EP074: sec-Butylbenzene	135-98-8	0.5	mg/kg	<0.5	1 mg/kg	107	69.0	119
EP074: 1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	<0.5	1 mg/kg	105	69.0	117
EP074: tert-Butylbenzene	98-06-6	0.5	mg/kg	<0.5	1 mg/kg	102	69.0	115
EP074: p-Isopropyltoluene	99-87-6	0.5	mg/kg	<0.5	1 mg/kg	110	66.0	118
EP074: n-Butylbenzene	104-51-8	0.5	mg/kg	<0.5	1 mg/kg	113	59.0	125
EP074B: Oxygenated Compounds (QCLot: 4096910)								
EP074: Vinyl Acetate	108-05-4	5	mg/kg	<5	10 mg/kg	115	29.6	156
EP074: 2-Butanone (MEK)	78-93-3	5	mg/kg	<5	10 mg/kg	107	58.0	136
EP074: 4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	<5	10 mg/kg	110	62.0	132
EP074: 2-Hexanone (MBK)	591-78-6	5	mg/kg	<5	10 mg/kg	110	54.0	136
EP074C: Sulfonated Compounds (QCLot: 4096910)								
EP074: Carbon disulfide	75-15-0	0.5	mg/kg	<0.5	1 mg/kg	117	54.0	126
EP074D: Fumigants (QCLot: 4096910)								
EP074: 2.2-Dichloropropane	594-20-7	0.5	mg/kg	<0.5	1 mg/kg	120	60.0	126
EP074: 1.2-Dichloropropane	78-87-5	0.5	mg/kg	<0.5	1 mg/kg	100	68.0	124
EP074: cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	<0.5	1 mg/kg	104	51.0	119
EP074: trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	<0.5	1 mg/kg	111	52.0	114
EP074: 1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	<0.5	1 mg/kg	99.2	63.0	115
EP074E: Halogenated Aliphatic Compounds (QCLot: 4096910)								
EP074: Dichlorodifluoromethane	75-71-8	5	mg/kg	<5	10 mg/kg	90.7	30.0	148
EP074: Chloromethane	74-87-3	5	mg/kg	<5	10 mg/kg	119	41.0	141
EP074: Vinyl chloride	75-01-4	5	mg/kg	<5	10 mg/kg	122	43.0	147
EP074: Bromomethane	74-83-9	5	mg/kg	<5	10 mg/kg	106	47.0	141
EP074: Chloroethane	75-00-3	5	mg/kg	<5	10 mg/kg	124	49.0	143
EP074: Trichlorofluoromethane	75-69-4	5	mg/kg	<5	10 mg/kg	120	49.0	135
EP074: 1.1-Dichloroethene	75-35-4	0.5	mg/kg	<0.5	1 mg/kg	117	54.0	126
EP074: Iodomethane	74-88-4	0.5	mg/kg	<0.5	1 mg/kg	99.4	43.0	129
EP074: trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	<0.5	1 mg/kg	117	64.0	120
EP074: 1.1-Dichloroethane	75-34-3	0.5	mg/kg	<0.5	1 mg/kg	111	67.0	125
EP074: cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	<0.5	1 mg/kg	114	69.0	121
EP074: 1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	<0.5	1 mg/kg	110	65.0	117

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP074E: Halogenated Aliphatic Compounds (QCLot: 4096910) - continued								
EP074: 1.1-Dichloropropylene	563-58-6	0.5	mg/kg	<0.5	1 mg/kg	104	65.0	123
EP074: Carbon Tetrachloride	56-23-5	0.5	mg/kg	<0.5	1 mg/kg	107	59.0	125
EP074: 1.2-Dichloroethane	107-06-2	0.5	mg/kg	<0.5	1 mg/kg	112	65.0	125
EP074: Trichloroethene	79-01-6	0.5	mg/kg	<0.5	1 mg/kg	104	70.0	118
EP074: Dibromomethane	74-95-3	0.5	mg/kg	<0.5	1 mg/kg	112	68.0	118
EP074: 1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	<0.5	1 mg/kg	100.0	64.0	126
EP074: 1.3-Dichloropropane	142-28-9	0.5	mg/kg	<0.5	1 mg/kg	98.4	68.0	122
EP074: Tetrachloroethene	127-18-4	0.5	mg/kg	<0.5	1 mg/kg	93.1	67.0	143
EP074: 1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	<0.5	1 mg/kg	96.2	62.0	122
EP074: trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	<0.5	1 mg/kg	117	54.0	128
EP074: cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	<0.5	1 mg/kg	116	55.0	129
EP074: 1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	<0.5	1 mg/kg	109	65.0	121
EP074: 1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	<0.5	1 mg/kg	108	61.0	125
EP074: Pentachloroethane	76-01-7	0.5	mg/kg	<0.5	1 mg/kg	113	19.8	134
EP074: 1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	<0.5	1 mg/kg	98.4	53.0	129
EP074: Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	1 mg/kg	124	50.0	128
EP074F: Halogenated Aromatic Compounds (QCLot: 4096910)								
EP074: Chlorobenzene	108-90-7	0.5	mg/kg	<0.5	1 mg/kg	106	68.0	116
EP074: Bromobenzene	108-86-1	0.5	mg/kg	<0.5	1 mg/kg	102	70.0	114
EP074: 2-Chlorotoluene	95-49-8	0.5	mg/kg	<0.5	1 mg/kg	105	68.0	122
EP074: 4-Chlorotoluene	106-43-4	0.5	mg/kg	<0.5	1 mg/kg	108	67.0	123
EP074: 1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	1 mg/kg	109	70.0	116
EP074: 1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	1 mg/kg	112	67.0	117
EP074: 1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	1 mg/kg	105	70.0	114
EP074: 1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	1 mg/kg	121	48.0	122
EP074: 1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	<0.5	1 mg/kg	118	52.0	122
EP074G: Trihalomethanes (QCLot: 4096910)								
EP074: Chloroform	67-66-3	0.5	mg/kg	<0.5	1 mg/kg	114	66.0	124
EP074: Bromodichloromethane	75-27-4	0.5	mg/kg	<0.5	1 mg/kg	103	61.0	121
EP074: Dibromochloromethane	124-48-1	0.5	mg/kg	<0.5	1 mg/kg	96.0	63.0	121
EP074: Bromoform	75-25-2	0.5	mg/kg	<0.5	1 mg/kg	101	60.0	126
EP074H: Naphthalene (QCLot: 4096910)								
EP074: Naphthalene	91-20-3	1	mg/kg	<1	1 mg/kg	117	67.0	129
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 4091329)								
EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	6 mg/kg	109	77.0	125
EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	6 mg/kg	101	72.0	124
EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	6 mg/kg	104	73.0	127
EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	6 mg/kg	108	72.0	126

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 4091329) - continued								
EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	6 mg/kg	107	75.0	127
EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	6 mg/kg	103	77.0	127
EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	6 mg/kg	111	73.0	127
EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	6 mg/kg	109	74.0	128
EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	6 mg/kg	102	69.0	123
EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	6 mg/kg	106	75.0	127
EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	6 mg/kg	97.6	68.0	116
EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	6 mg/kg	103	74.0	126
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	6 mg/kg	92.2	70.0	126
EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	6 mg/kg	98.8	61.0	121
EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	6 mg/kg	99.6	62.0	118
EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	6 mg/kg	93.8	63.0	121
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 4092873)								
EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	6 mg/kg	106	77.0	125
EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	6 mg/kg	106	72.0	124
EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	6 mg/kg	102	73.0	127
EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	6 mg/kg	112	72.0	126
EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	6 mg/kg	112	75.0	127
EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	6 mg/kg	102	77.0	127
EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	6 mg/kg	115	73.0	127
EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	6 mg/kg	111	74.0	128
EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	6 mg/kg	111	69.0	123
EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	6 mg/kg	109	75.0	127
EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	6 mg/kg	108	68.0	116
EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	6 mg/kg	107	74.0	126
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	6 mg/kg	98.1	70.0	126
EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	6 mg/kg	101	61.0	121
EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	6 mg/kg	98.0	62.0	118
EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	6 mg/kg	102	63.0	121
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4091328)								
EP071: C10 - C14 Fraction	----	50	mg/kg	<50	300 mg/kg	111	75.0	129
EP071: C15 - C28 Fraction	----	100	mg/kg	<100	450 mg/kg	98.6	77.0	131
EP071: C29 - C36 Fraction	----	100	mg/kg	<100	300 mg/kg	109	71.0	129
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4092876)								
EP071: C10 - C14 Fraction	----	50	mg/kg	<50	300 mg/kg	100	75.0	129
EP071: C15 - C28 Fraction	----	100	mg/kg	<100	450 mg/kg	99.2	77.0	131

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4092876) - continued								
EP071: C29 - C36 Fraction	----	100	mg/kg	<100	300 mg/kg	102	71.0	129
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4096909)								
EP080: C6 - C9 Fraction	----	10	mg/kg	<10	26 mg/kg	99.1	68.4	128
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4097205)								
EP080: C6 - C9 Fraction	----	10	mg/kg	<10	26 mg/kg	78.1	68.4	128
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4097220)								
EP080: C6 - C9 Fraction	----	10	mg/kg	<10	26 mg/kg	77.3	68.4	128
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4091328)								
EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	375 mg/kg	107	77.0	125
EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	525 mg/kg	99.9	74.0	138
EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	225 mg/kg	119	63.0	131
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4092876)								
EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	375 mg/kg	103	77.0	125
EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	525 mg/kg	98.2	74.0	138
EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	225 mg/kg	107	63.0	131
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4096909)								
EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	31 mg/kg	101	68.4	128
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4097205)								
EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	31 mg/kg	76.6	68.4	128
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4097220)								
EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	31 mg/kg	78.1	68.4	128
EP080: BTEXN (QCLot: 4096909)								
EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	1 mg/kg	94.5	62.0	116
EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	1 mg/kg	98.9	67.0	121
EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	1 mg/kg	101	65.0	117
EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	2 mg/kg	99.9	66.0	118
EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	1 mg/kg	102	68.0	120
EP080: Naphthalene	91-20-3	1	mg/kg	<1	1 mg/kg	102	63.0	119
EP080: BTEXN (QCLot: 4097205)								
EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	1 mg/kg	102	62.0	116
EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	1 mg/kg	95.7	67.0	121
EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	1 mg/kg	93.8	65.0	117
EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	2 mg/kg	96.1	66.0	118
EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	1 mg/kg	93.7	68.0	120
EP080: Naphthalene	91-20-3	1	mg/kg	<1	1 mg/kg	92.5	63.0	119

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP080: BTEXN (QCLot: 4097220)								
EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	1 mg/kg	86.6	62.0	116
EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	1 mg/kg	90.5	67.0	121
EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	1 mg/kg	85.8	65.0	117
EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	2 mg/kg	85.2	66.0	118
EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	1 mg/kg	87.3	68.0	120
EP080: Naphthalene	91-20-3	1	mg/kg	<1	1 mg/kg	99.1	63.0	119
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4102556)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	0.00125 mg/kg	116	72.0	128
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	108	73.0	123
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	106	67.0	130
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	104	70.0	132
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	92.8	68.0	136
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	0.00125 mg/kg	112	59.0	134
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4102556)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	0.00625 mg/kg	87.8	71.0	135
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	0.00125 mg/kg	94.8	69.0	132
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	122	70.0	132
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	119	71.0	131
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	116	69.0	133
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	119	72.0	129
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	0.00125 mg/kg	111	69.0	133
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	115	64.0	136
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	107	69.0	135
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	98.4	66.0	139
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	102	69.0	133
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4102556)								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	110	67.0	137
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	0.00312 mg/kg	108	71.6	129
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	111	69.8	131
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	108	68.7	130
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	102	65.1	134
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	116	63.0	144
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	115	61.0	139
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4102556)								

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4102556) - continued								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	0.00125 mg/kg	117	62.0	145
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	0.00125 mg/kg	115	64.0	140
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	0.00125 mg/kg	112	65.0	137
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	0.00125 mg/kg	100	69.2	143

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EG020F: Dissolved Metals by ICP-MS (QCLot: 4098106)								
EG020A-F: Arsenic	7440-38-2	0.001	mg/L	<0.001	0.1 mg/L	92.9	85.0	114
EG020A-F: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	0.1 mg/L	90.5	84.0	110
EG020A-F: Chromium	7440-47-3	0.001	mg/L	<0.001	0.1 mg/L	91.8	85.0	111
EG020A-F: Copper	7440-50-8	0.001	mg/L	<0.001	0.1 mg/L	90.9	81.0	111
EG020A-F: Lead	7439-92-1	0.001	mg/L	<0.001	0.1 mg/L	92.1	83.0	111
EG020A-F: Nickel	7440-02-0	0.001	mg/L	<0.001	0.1 mg/L	90.9	82.0	112
EG020A-F: Zinc	7440-66-6	0.005	mg/L	<0.005	0.1 mg/L	90.8	81.0	117
EG035F: Dissolved Mercury by FIMS (QCLot: 4098107)								
EG035F: Mercury	7439-97-6	0.0001	mg/L	<0.0001	0.01 mg/L	95.3	83.0	105
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4090166)								
EP071: C10 - C14 Fraction	----	50	µg/L	<50	400 µg/L	68.6	55.8	112
EP071: C15 - C28 Fraction	----	100	µg/L	<100	600 µg/L	74.9	71.6	113
EP071: C29 - C36 Fraction	----	50	µg/L	<50	400 µg/L	72.7	56.0	121
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4100888)								
EP080: C6 - C9 Fraction	----	20	µg/L	<20	260 µg/L	93.6	75.0	127
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4090166)								
EP071: >C10 - C16 Fraction	----	100	µg/L	<100	500 µg/L	74.5	57.9	119
EP071: >C16 - C34 Fraction	----	100	µg/L	<100	700 µg/L	89.6	62.5	110
EP071: >C34 - C40 Fraction	----	100	µg/L	<100	300 µg/L	83.5	61.5	121
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4100888)								
EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	310 µg/L	97.7	75.0	127
EP080: BTEXN (QCLot: 4100888)								
EP080: Benzene	71-43-2	1	µg/L	<1	10 µg/L	93.3	70.0	122
EP080: Toluene	108-88-3	2	µg/L	<2	10 µg/L	96.2	69.0	123
EP080: Ethylbenzene	100-41-4	2	µg/L	<2	10 µg/L	98.5	70.0	120
EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	10 µg/L	105	69.0	121
EP080: ortho-Xylene	95-47-6	2	µg/L	<2	10 µg/L	102	72.0	122
EP080: Naphthalene	91-20-3	5	µg/L	<5	10 µg/L	94.1	70.0	120

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4101407)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	0.25 µg/L	122	72.0	130
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	0.25 µg/L	123	71.0	127
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.25 µg/L	118	68.0	131
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	0.25 µg/L	118	69.0	134
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.25 µg/L	95.0	65.0	140
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	0.25 µg/L	101	53.0	142
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4101407)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	1.25 µg/L	110	73.0	129
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	0.25 µg/L	123	72.0	129
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.25 µg/L	126	72.0	129
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	0.25 µg/L	115	72.0	130
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	0.25 µg/L	131	71.0	133
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	0.25 µg/L	124	69.0	130
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	0.25 µg/L	126	71.0	129
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	0.25 µg/L	125	69.0	133
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	0.25 µg/L	120	72.0	134
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	0.25 µg/L	120	65.0	144
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	0.625 µg/L	92.8	71.0	132
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4101407)								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	0.25 µg/L	117	67.0	137
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	0.625 µg/L	126	68.0	141
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	0.625 µg/L	122	62.6	147
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	0.625 µg/L	107	66.0	145
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	0.625 µg/L	101	57.6	145
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	0.25 µg/L	128	65.0	136
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.25 µg/L	118	61.0	135
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4101407)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.25 µg/L	128	63.0	143
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	0.25 µg/L	121	64.0	140
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	0.25 µg/L	123	67.0	138
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	0.25 µg/L	106	71.4	144

Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

Sub-Matrix: **SOIL**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4099599)							
ES2146505-001	Anonymous	EG005T: Arsenic	7440-38-2	50 mg/kg	100	70.0	130
		EG005T: Cadmium	7440-43-9	50 mg/kg	105	70.0	130
		EG005T: Chromium	7440-47-3	50 mg/kg	102	68.0	132
		EG005T: Copper	7440-50-8	250 mg/kg	104	70.0	130
		EG005T: Lead	7439-92-1	250 mg/kg	105	70.0	130
		EG005T: Nickel	7440-02-0	50 mg/kg	104	70.0	130
		EG005T: Zinc	7440-66-6	250 mg/kg	103	66.0	133
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4099602)							
ES2146625-007	BUR_BH108_2.0	EG005T: Arsenic	7440-38-2	50 mg/kg	98.6	70.0	130
		EG005T: Cadmium	7440-43-9	50 mg/kg	102	70.0	130
		EG005T: Chromium	7440-47-3	50 mg/kg	99.0	68.0	132
		EG005T: Copper	7440-50-8	250 mg/kg	99.0	70.0	130
		EG005T: Lead	7439-92-1	250 mg/kg	102	70.0	130
		EG005T: Nickel	7440-02-0	50 mg/kg	101	70.0	130
		EG005T: Zinc	7440-66-6	250 mg/kg	101	66.0	133
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4099600)							
ES2146505-001	Anonymous	EG035T: Mercury	7439-97-6	5 mg/kg	103	70.0	130
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4099601)							
ES2146625-007	BUR_BH108_2.0	EG035T: Mercury	7439-97-6	5 mg/kg	99.5	70.0	130
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 4091331)							
ES2146625-001	D03_20211217	EP066: Total Polychlorinated biphenyls	----	1 mg/kg	83.8	70.0	130
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 4092878)							
ES2146549-001	Anonymous	EP066: Total Polychlorinated biphenyls	----	1 mg/kg	104	70.0	130
EP068A: Organochlorine Pesticides (OC) (QCLot: 4091330)							
ES2146625-001	D03_20211217	EP068: gamma-BHC	58-89-9	0.5 mg/kg	86.8	70.0	130
		EP068: Heptachlor	76-44-8	0.5 mg/kg	73.8	70.0	130
		EP068: Aldrin	309-00-2	0.5 mg/kg	119	70.0	130
		EP068: Dieldrin	60-57-1	0.5 mg/kg	100	70.0	130
		EP068: Endrin	72-20-8	2 mg/kg	91.0	70.0	130
		EP068: 4.4`-DDT	50-29-3	2 mg/kg	85.0	70.0	130
EP068A: Organochlorine Pesticides (OC) (QCLot: 4092877)							
ES2146549-001	Anonymous	EP068: gamma-BHC	58-89-9	0.5 mg/kg	91.9	70.0	130
		EP068: Heptachlor	76-44-8	0.5 mg/kg	85.6	70.0	130
		EP068: Aldrin	309-00-2	0.5 mg/kg	89.2	70.0	130
		EP068: Dieldrin	60-57-1	0.5 mg/kg	103	70.0	130

Sub-Matrix: **SOIL**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP068A: Organochlorine Pesticides (OC) (QCLot: 4092877) - continued							
ES2146549-001	Anonymous	EP068: Endrin	72-20-8	2 mg/kg	94.0	70.0	130
		EP068: 4.4`-DDT	50-29-3	2 mg/kg	91.9	70.0	130
EP068B: Organophosphorus Pesticides (OP) (QCLot: 4091330)							
ES2146625-001	D03_20211217	EP068: Diazinon	333-41-5	0.5 mg/kg	86.3	70.0	130
		EP068: Chlorpyrifos-methyl	5598-13-0	0.5 mg/kg	70.0	70.0	130
		EP068: Pirimphos-ethyl	23505-41-1	0.5 mg/kg	106	70.0	130
		EP068: Bromophos-ethyl	4824-78-6	0.5 mg/kg	80.8	70.0	130
		EP068: Prothiofos	34643-46-4	0.5 mg/kg	84.8	70.0	130
EP068B: Organophosphorus Pesticides (OP) (QCLot: 4092877)							
ES2146549-001	Anonymous	EP068: Diazinon	333-41-5	0.5 mg/kg	96.2	70.0	130
		EP068: Chlorpyrifos-methyl	5598-13-0	0.5 mg/kg	110	70.0	130
		EP068: Pirimphos-ethyl	23505-41-1	0.5 mg/kg	100	70.0	130
		EP068: Bromophos-ethyl	4824-78-6	0.5 mg/kg	96.8	70.0	130
		EP068: Prothiofos	34643-46-4	0.5 mg/kg	85.8	70.0	130
EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 4096910)							
ES2146615-002	Anonymous	EP074: Benzene	71-43-2	2.5 mg/kg	87.8	70.0	130
		EP074: Toluene	108-88-3	2.5 mg/kg	93.8	70.0	130
EP074E: Halogenated Aliphatic Compounds (QCLot: 4096910)							
ES2146615-002	Anonymous	EP074: 1.1-Dichloroethene	75-35-4	2.5 mg/kg	71.4	70.0	130
		EP074: Trichloroethene	79-01-6	2.5 mg/kg	82.0	70.0	130
EP074F: Halogenated Aromatic Compounds (QCLot: 4096910)							
ES2146615-002	Anonymous	EP074: Chlorobenzene	108-90-7	2.5 mg/kg	99.7	70.0	130
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 4091329)							
ES2146625-001	D03_20211217	EP075(SIM): Acenaphthene	83-32-9	10 mg/kg	98.1	70.0	130
		EP075(SIM): Pyrene	129-00-0	10 mg/kg	103	70.0	130
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 4092873)							
ES2146549-001	Anonymous	EP075(SIM): Acenaphthene	83-32-9	10 mg/kg	96.7	70.0	130
		EP075(SIM): Pyrene	129-00-0	10 mg/kg	110	70.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4091328)							
ES2146625-001	D03_20211217	EP071: C10 - C14 Fraction	----	480 mg/kg	98.0	73.0	137
		EP071: C15 - C28 Fraction	----	3100 mg/kg	101	53.0	131
		EP071: C29 - C36 Fraction	----	2060 mg/kg	106	52.0	132
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4092876)							
ES2146549-001	Anonymous	EP071: C10 - C14 Fraction	----	480 mg/kg	92.4	73.0	137
		EP071: C15 - C28 Fraction	----	3100 mg/kg	101	53.0	131
		EP071: C29 - C36 Fraction	----	2060 mg/kg	106	52.0	132

Sub-Matrix: **SOIL**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4096909)							
ES2146615-002	Anonymous	EP080: C6 - C9 Fraction	----	32.5 mg/kg	97.6	70.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4097205)							
ES2146459-004	Anonymous	EP080: C6 - C9 Fraction	----	32.5 mg/kg	80.8	70.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4097220)							
ES2146346-034	Anonymous	EP080: C6 - C9 Fraction	----	32.5 mg/kg	91.0	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4091328)							
ES2146625-001	D03_20211217	EP071: >C10 - C16 Fraction	----	860 mg/kg	101	73.0	137
		EP071: >C16 - C34 Fraction	----	4320 mg/kg	102	53.0	131
		EP071: >C34 - C40 Fraction	----	890 mg/kg	93.4	52.0	132
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4092876)							
ES2146549-001	Anonymous	EP071: >C10 - C16 Fraction	----	860 mg/kg	95.7	73.0	137
		EP071: >C16 - C34 Fraction	----	4320 mg/kg	104	53.0	131
		EP071: >C34 - C40 Fraction	----	890 mg/kg	102	52.0	132
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4096909)							
ES2146615-002	Anonymous	EP080: C6 - C10 Fraction	C6_C10	37.5 mg/kg	98.7	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4097205)							
ES2146459-004	Anonymous	EP080: C6 - C10 Fraction	C6_C10	37.5 mg/kg	77.6	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4097220)							
ES2146346-034	Anonymous	EP080: C6 - C10 Fraction	C6_C10	37.5 mg/kg	84.1	70.0	130
EP080: BTEXN (QCLot: 4096909)							
ES2146615-002	Anonymous	EP080: Benzene	71-43-2	2.5 mg/kg	85.5	70.0	130
		EP080: Toluene	108-88-3	2.5 mg/kg	86.5	70.0	130
		EP080: Ethylbenzene	100-41-4	2.5 mg/kg	90.8	70.0	130
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2.5 mg/kg	91.1	70.0	130
		EP080: ortho-Xylene	95-47-6	2.5 mg/kg	93.8	70.0	130
		EP080: Naphthalene	91-20-3	2.5 mg/kg	87.7	70.0	130
EP080: BTEXN (QCLot: 4097205)							
ES2146459-004	Anonymous	EP080: Benzene	71-43-2	2.5 mg/kg	88.5	70.0	130
		EP080: Toluene	108-88-3	2.5 mg/kg	88.6	70.0	130
		EP080: Ethylbenzene	100-41-4	2.5 mg/kg	87.8	70.0	130
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2.5 mg/kg	84.2	70.0	130
		EP080: ortho-Xylene	95-47-6	2.5 mg/kg	87.8	70.0	130
		EP080: Naphthalene	91-20-3	2.5 mg/kg	84.5	70.0	130
EP080: BTEXN (QCLot: 4097220)							

Sub-Matrix: **SOIL**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP080: BTEXN (QCLot: 4097220) - continued							
ES2146346-034	Anonymous	EP080: Benzene	71-43-2	2.5 mg/kg	91.2	70.0	130
		EP080: Toluene	108-88-3	2.5 mg/kg	86.4	70.0	130
		EP080: Ethylbenzene	100-41-4	2.5 mg/kg	88.2	70.0	130
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2.5 mg/kg	81.6	70.0	130
		EP080: ortho-Xylene	95-47-6	2.5 mg/kg	91.9	70.0	130
		EP080: Naphthalene	91-20-3	2.5 mg/kg	82.4	70.0	130
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4102556)							
ES2146459-001	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.00125 mg/kg	123	72.0	128
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00125 mg/kg	118	73.0	123
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.00125 mg/kg	114	67.0	130
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00125 mg/kg	109	70.0	132
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.00125 mg/kg	99.6	68.0	136
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.00125 mg/kg	116	59.0	134
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4102556)							
ES2146459-001	Anonymous	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.00625 mg/kg	94.0	71.0	135
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.00125 mg/kg	98.0	69.0	132
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.00125 mg/kg	125	70.0	132
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.00125 mg/kg	126	71.0	131
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.00125 mg/kg	113	69.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.00125 mg/kg	121	72.0	129
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.00125 mg/kg	122	69.0	133
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.00125 mg/kg	126	64.0	136
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.00125 mg/kg	108	69.0	135
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.00125 mg/kg	108	66.0	139
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.00312 mg/kg	114	69.0	133
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4102556)							
ES2146459-001	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.00125 mg/kg	118	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.00312 mg/kg	124	71.6	129
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.00312 mg/kg	113	69.8	131
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.00312 mg/kg	118	68.7	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.00312 mg/kg	118	65.1	134
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.00125 mg/kg	123	63.0	144
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.00125 mg/kg	128	61.0	139

Sub-Matrix: **SOIL**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	Matrix Spike (MS) Report: SpikeRecovery(%) MS	Acceptable Limits (%) Low	Acceptable Limits (%) High
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4102556)							
ES2146459-001	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.00125 mg/kg	117	62.0	145
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.00125 mg/kg	122	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.00125 mg/kg	115	65.0	137
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.00125 mg/kg	102	69.2	143

Sub-Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	Matrix Spike (MS) Report: SpikeRecovery(%) MS	Acceptable Limits (%) Low	Acceptable Limits (%) High
EG020F: Dissolved Metals by ICP-MS (QCLot: 4098106)							
ES2146547-008	Anonymous	EG020A-F: Arsenic	7440-38-2	1 mg/L	94.5	70.0	130
		EG020A-F: Cadmium	7440-43-9	0.25 mg/L	91.0	70.0	130
		EG020A-F: Chromium	7440-47-3	1 mg/L	92.3	70.0	130
		EG020A-F: Copper	7440-50-8	1 mg/L	93.0	70.0	130
		EG020A-F: Lead	7439-92-1	1 mg/L	85.6	70.0	130
		EG020A-F: Nickel	7440-02-0	1 mg/L	91.7	70.0	130
		EG020A-F: Zinc	7440-66-6	1 mg/L	93.6	70.0	130
EG035F: Dissolved Mercury by FIMS (QCLot: 4098107)							
ES2146547-009	Anonymous	EG035F: Mercury	7439-97-6	0.01 mg/L	88.9	70.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4100888)							
ES2146555-001	Anonymous	EP080: C6 - C9 Fraction	----	325 µg/L	81.4	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4100888)							
ES2146555-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	375 µg/L	80.5	70.0	130
EP080: BTEXN (QCLot: 4100888)							
ES2146555-001	Anonymous	EP080: Benzene	71-43-2	25 µg/L	73.5	70.0	130
		EP080: Toluene	108-88-3	25 µg/L	73.4	70.0	130
		EP080: Ethylbenzene	100-41-4	25 µg/L	78.0	70.0	130
		EP080: meta- & para-Xylene	108-38-3 106-42-3	25 µg/L	75.3	70.0	130
		EP080: ortho-Xylene	95-47-6	25 µg/L	77.1	70.0	130
		EP080: Naphthalene	91-20-3	25 µg/L	77.6	70.0	130
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4101407)							
ES2146625-031	R03_20211217 Received as extra sample	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.25 µg/L	127	72.0	130
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.25 µg/L	119	71.0	127
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.25 µg/L	119	68.0	131
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.25 µg/L	117	69.0	134
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.25 µg/L	94.2	65.0	140
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.25 µg/L	106	53.0	142

Sub-Matrix: **WATER**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4101407)							
ES2146625-031	R03_20211217 Received as extra sample	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	1.25 µg/L	106	73.0	129
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.25 µg/L	117	72.0	129
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.25 µg/L	124	72.0	129
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.25 µg/L	126	72.0	130
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.25 µg/L	126	71.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.25 µg/L	117	69.0	130
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.25 µg/L	123	71.0	129
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.25 µg/L	122	69.0	133
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.25 µg/L	111	72.0	134
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.25 µg/L	119	65.0	144
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.625 µg/L	90.1	71.0	132
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4101407)							
ES2146625-031	R03_20211217 Received as extra sample	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.25 µg/L	113	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.625 µg/L	122	68.0	141
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.625 µg/L	122	62.6	147
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.625 µg/L	103	66.0	145
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.625 µg/L	100	57.6	145
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.25 µg/L	123	65.0	136
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.25 µg/L	114	61.0	135
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4101407)							
ES2146625-031	R03_20211217 Received as extra sample	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.25 µg/L	127	63.0	143
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.25 µg/L	127	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.25 µg/L	130	67.0	138
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.25 µg/L	115	71.4	144

ALS Environmental

QA/QC Compliance Assessment to assist with Quality Review

Work Order	: **ES2146625**	Page	: 1 of 16
Amendment	: **1**		
Client	: **ENVIRONMENTAL RESOURCES MANAGEMENT (ERM)**	Laboratory	: Environmental Division Sydney
Contact	: MS JESSICA LAWRENCE	Telephone	: +61-2-8784 8555
Project	: 0577577-Burwood	Date Samples Received	: 20-Dec-2021
Site	: ----	Issue Date	: 02-Feb-2022
Sampler	: TRISTAN RODRIGUES	No. of samples received	: 31
Order number	: ----	No. of samples analysed	: 27

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers : Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- **NO Method Blank value outliers occur.**
- **NO Duplicate outliers occur.**
- **NO Laboratory Control outliers occur.**
- **NO Matrix Spike outliers occur.**
- **For all regular sample matrices, NO surrogate recovery outliers occur.**

Outliers : Analysis Holding Time Compliance

- **NO Analysis Holding Time Outliers exist.**

Outliers : Frequency of Quality Control Samples

- **Quality Control Sample Frequency Outliers exist - please see following pages for full details.**

Outliers : Frequency of Quality Control Samples

Matrix: **WATER**

Quality Control Sample Type / Method	Count QC	Count Regular	Rate (%) Actual	Rate (%) Expected	Quality Control Specification
Laboratory Duplicates (DUP)					
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	1	19	5.26	10.00	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	0	19	0.00	10.00	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)					
TRH - Semivolatile Fraction	0	19	0.00	5.00	NEPM 2013 B3 & ALS QC Standard

Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for ***VOC in soils*** vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation: Date extracted	Due for extraction	Evaluation	Analysis: Date analysed	Due for analysis	Evaluation
EA055: Moisture Content (Dried @ 105-110°C)							
Soil Glass Jar - Unpreserved (EA055)							
D03_20211217, BUR_BH120_0.2, BUR_BH120_0.5, BUR_BH108_0.2, D04_20211217, BUR_BH108_0.5, BUR_BH108_2.0, BUR_BH108_5.8, BUR_BH108_11.0, BUR_BH108_20.0, BUR_BH108_17.0, BUR_BH106_0.2, BUR_BH106_1.0, BUR_BH106_2.0, BUR_BH106_3.0, BUR_BH106_4.0, BUR_BH106_5.0, D02_20211217, BUR_BH107_0.2, BUR_BH107_1.0, BUR_BH107_3.0, BUR_BH107_5.0	**17-Dec-2021**	**----**	----	----	**24-Dec-2021**	31-Dec-2021	✓
EA200: AS 4964 - 2004 Identification of Asbestos in Soils							
Snap Lock Bag - Friable Asbestos/PSD Bag (EA200)							
BUR_BH102_0.15 - Received as extra sample	**16-Dec-2021**	**----**	----	----	**22-Dec-2021**	14-Jun-2022	✓
Snap Lock Bag - Friable Asbestos/PSD Bag (EA200)							
BUR_BH106_0.2, BUR_BH107_0.2	**17-Dec-2021**	**----**	----	----	**22-Dec-2021**	15-Jun-2022	✓

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)		Sample Date	Extraction / Preparation			Analysis		
			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EG005(ED093)T: Total Metals by ICP-AES								
Soil Glass Jar - Unpreserved (EG005T)								
D03_20211217,	BUR_BH120_0.2,	**17-Dec-2021**	**24-Dec-2021**	15-Jun-2022	✓	**30-Dec-2021**	15-Jun-2022	✓
BUR_BH120_0.5,	BUR_BH108_0.2,							
D04_20211217,	BUR_BH108_0.5,							
BUR_BH108_2.0,	BUR_BH108_5.8,							
BUR_BH108_11.0,	BUR_BH108_20.0,							
BUR_BH108_17.0,	BUR_BH106_0.2,							
BUR_BH106_1.0,	BUR_BH106_2.0,							
BUR_BH106_3.0,	BUR_BH106_4.0,							
BUR_BH106_5.0,	D02_20211217,							
BUR_BH107_0.2,	BUR_BH107_1.0,							
BUR_BH107_3.0,	BUR_BH107_5.0							
EG035T: Total Recoverable Mercury by FIMS								
Soil Glass Jar - Unpreserved (EG035T)								
D03_20211217,	BUR_BH120_0.2,	**17-Dec-2021**	**24-Dec-2021**	14-Jan-2022	✓	**30-Dec-2021**	14-Jan-2022	✓
BUR_BH120_0.5,	BUR_BH108_0.2,							
D04_20211217,	BUR_BH108_0.5,							
BUR_BH108_2.0,	BUR_BH108_5.8,							
BUR_BH108_11.0,	BUR_BH108_20.0,							
BUR_BH108_17.0,	BUR_BH106_0.2,							
BUR_BH106_1.0,	BUR_BH106_2.0,							
BUR_BH106_3.0,	BUR_BH106_4.0,							
BUR_BH106_5.0,	D02_20211217,							
BUR_BH107_0.2,	BUR_BH107_1.0,							
BUR_BH107_3.0,	BUR_BH107_5.0							
EP066: Polychlorinated Biphenyls (PCB)								
Soil Glass Jar - Unpreserved (EP066)								
D03_20211217,	BUR_BH120_0.2,	**17-Dec-2021**	**29-Dec-2021**	31-Dec-2021	✓	**31-Dec-2021**	07-Feb-2022	✓
BUR_BH120_0.5,	BUR_BH108_0.2,							
D04_20211217,	BUR_BH108_0.5,							
BUR_BH108_2.0,	BUR_BH108_5.8,							
BUR_BH108_11.0,	BUR_BH108_20.0,							
BUR_BH108_17.0,	BUR_BH106_0.2,							
BUR_BH106_1.0,	BUR_BH106_2.0,							
BUR_BH106_3.0,	BUR_BH106_4.0,							
BUR_BH106_5.0,	D02_20211217,							
BUR_BH107_0.2,	BUR_BH107_1.0,							
BUR_BH107_3.0,	BUR_BH107_5.0							

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)		Sample Date	Extraction / Preparation			Analysis		
			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP068A: Organochlorine Pesticides (OC)								
Soil Glass Jar - Unpreserved (EP068)								
D03_20211217,	BUR_BH120_0.2,	**17-Dec-2021**	**29-Dec-2021**	31-Dec-2021	✓	**31-Dec-2021**	07-Feb-2022	✓
BUR_BH120_0.5,	BUR_BH108_0.2,							
D04_20211217,	BUR_BH108_0.5,							
BUR_BH108_2.0,	BUR_BH108_5.8,							
BUR_BH108_11.0,	BUR_BH108_20.0,							
BUR_BH108_17.0,	BUR_BH106_0.2,							
BUR_BH106_1.0,	BUR_BH106_2.0,							
BUR_BH106_3.0,	BUR_BH106_4.0,							
BUR_BH106_5.0,	D02_20211217,							
BUR_BH107_0.2,	BUR_BH107_1.0,							
BUR_BH107_3.0,	BUR_BH107_5.0							
EP068B: Organophosphorus Pesticides (OP)								
Soil Glass Jar - Unpreserved (EP068)								
D03_20211217,	BUR_BH120_0.2,	**17-Dec-2021**	**29-Dec-2021**	31-Dec-2021	✓	**31-Dec-2021**	07-Feb-2022	✓
BUR_BH120_0.5,	BUR_BH108_0.2,							
D04_20211217,	BUR_BH108_0.5,							
BUR_BH108_2.0,	BUR_BH108_5.8,							
BUR_BH108_11.0,	BUR_BH108_20.0,							
BUR_BH108_17.0,	BUR_BH106_0.2,							
BUR_BH106_1.0,	BUR_BH106_2.0,							
BUR_BH106_3.0,	BUR_BH106_4.0,							
BUR_BH106_5.0,	D02_20211217,							
BUR_BH107_0.2,	BUR_BH107_1.0,							
BUR_BH107_3.0,	BUR_BH107_5.0							
EP074A: Monocyclic Aromatic Hydrocarbons								
Soil Glass Jar - Unpreserved (EP074)								
D03_20211217,	BUR_BH120_0.2,	**17-Dec-2021**	**23-Dec-2021**	24-Dec-2021	✓	**24-Dec-2021**	24-Dec-2021	✓
BUR_BH108_0.2,	D04_20211217,							
BUR_BH108_0.5,	BUR_BH108_5.8,							
BUR_BH108_20.0,	BUR_BH106_0.2,							
BUR_BH106_2.0,	BUR_BH106_4.0,							
D02_20211217,	BUR_BH107_1.0,							
BUR_BH107_3.0,	BUR_BH107_5.0							

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)		Sample Date	Extraction / Preparation			Analysis		
			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP074B: Oxygenated Compounds								
Soil Glass Jar - Unpreserved (EP074)								
D03_20211217,	BUR_BH120_0.2,	**17-Dec-2021**	**23-Dec-2021**	24-Dec-2021	✓	**24-Dec-2021**	24-Dec-2021	✓
BUR_BH108_0.2,	D04_20211217,							
BUR_BH108_0.5,	BUR_BH108_5.8,							
BUR_BH108_20.0,	BUR_BH106_0.2,							
BUR_BH106_2.0,	BUR_BH106_4.0,							
D02_20211217,	BUR_BH107_1.0,							
BUR_BH107_3.0,	BUR_BH107_5.0							
EP074C: Sulfonated Compounds								
Soil Glass Jar - Unpreserved (EP074)								
D03_20211217,	BUR_BH120_0.2,	**17-Dec-2021**	**23-Dec-2021**	24-Dec-2021	✓	**24-Dec-2021**	24-Dec-2021	✓
BUR_BH108_0.2,	D04_20211217,							
BUR_BH108_0.5,	BUR_BH108_5.8,							
BUR_BH108_20.0,	BUR_BH106_0.2,							
BUR_BH106_2.0,	BUR_BH106_4.0,							
D02_20211217,	BUR_BH107_1.0,							
BUR_BH107_3.0,	BUR_BH107_5.0							
EP074D: Fumigants								
Soil Glass Jar - Unpreserved (EP074)								
D03_20211217,	BUR_BH120_0.2,	**17-Dec-2021**	**23-Dec-2021**	24-Dec-2021	✓	**24-Dec-2021**	24-Dec-2021	✓
BUR_BH108_0.2,	D04_20211217,							
BUR_BH108_0.5,	BUR_BH108_5.8,							
BUR_BH108_20.0,	BUR_BH106_0.2,							
BUR_BH106_2.0,	BUR_BH106_4.0,							
D02_20211217,	BUR_BH107_1.0,							
BUR_BH107_3.0,	BUR_BH107_5.0							
EP074E: Halogenated Aliphatic Compounds								
Soil Glass Jar - Unpreserved (EP074)								
D03_20211217,	BUR_BH120_0.2,	**17-Dec-2021**	**23-Dec-2021**	24-Dec-2021	✓	**24-Dec-2021**	24-Dec-2021	✓
BUR_BH108_0.2,	D04_20211217,							
BUR_BH108_0.5,	BUR_BH108_5.8,							
BUR_BH108_20.0,	BUR_BH106_0.2,							
BUR_BH106_2.0,	BUR_BH106_4.0,							
D02_20211217,	BUR_BH107_1.0,							
BUR_BH107_3.0,	BUR_BH107_5.0							

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)		Sample Date	Extraction / Preparation			Analysis		
			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP074F: Halogenated Aromatic Compounds								
Soil Glass Jar - Unpreserved (EP074)								
D03_20211217,	BUR_BH120_0.2,	**17-Dec-2021**	**23-Dec-2021**	24-Dec-2021	✓	**24-Dec-2021**	24-Dec-2021	✓
BUR_BH108_0.2,	D04_20211217,							
BUR_BH108_0.5,	BUR_BH108_5.8,							
BUR_BH108_20.0,	BUR_BH106_0.2,							
BUR_BH106_2.0,	BUR_BH106_4.0,							
D02_20211217,	BUR_BH107_1.0,							
BUR_BH107_3.0,	BUR_BH107_5.0							
EP074G: Trihalomethanes								
Soil Glass Jar - Unpreserved (EP074)								
D03_20211217,	BUR_BH120_0.2,	**17-Dec-2021**	**23-Dec-2021**	24-Dec-2021	✓	**24-Dec-2021**	24-Dec-2021	✓
BUR_BH108_0.2,	D04_20211217,							
BUR_BH108_0.5,	BUR_BH108_5.8,							
BUR_BH108_20.0,	BUR_BH106_0.2,							
BUR_BH106_2.0,	BUR_BH106_4.0,							
D02_20211217,	BUR_BH107_1.0,							
BUR_BH107_3.0,	BUR_BH107_5.0							
EP074H: Naphthalene								
Soil Glass Jar - Unpreserved (EP074)								
D03_20211217,	BUR_BH120_0.2,	**17-Dec-2021**	**23-Dec-2021**	24-Dec-2021	✓	**24-Dec-2021**	24-Dec-2021	✓
BUR_BH108_0.2,	D04_20211217,							
BUR_BH108_0.5,	BUR_BH108_5.8,							
BUR_BH108_20.0,	BUR_BH106_0.2,							
BUR_BH106_2.0,	BUR_BH106_4.0,							
D02_20211217,	BUR_BH107_1.0,							
BUR_BH107_3.0,	BUR_BH107_5.0							
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Soil Glass Jar - Unpreserved (EP075(SIM))								
D03_20211217,	BUR_BH120_0.2,	**17-Dec-2021**	**29-Dec-2021**	31-Dec-2021	✓	**30-Dec-2021**	07-Feb-2022	✓
BUR_BH120_0.5,	BUR_BH108_0.2,							
D04_20211217,	BUR_BH108_0.5,							
BUR_BH108_2.0,	BUR_BH108_5.8,							
BUR_BH108_11.0,	BUR_BH108_20.0,							
BUR_BH108_17.0,	BUR_BH106_0.2,							
BUR_BH106_1.0,	BUR_BH106_2.0,							
BUR_BH106_3.0,	BUR_BH106_4.0,							
BUR_BH106_5.0,	D02_20211217,							
BUR_BH107_0.2,	BUR_BH107_1.0,							
BUR_BH107_3.0,	BUR_BH107_5.0							

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP080/071: Total Petroleum Hydrocarbons							
Soil Glass Jar - Unpreserved (EP080)							
Trip Blank 1 - Received as extra sample	**15-Dec-2021**	**23-Dec-2021**	29-Dec-2021	✓	**29-Dec-2021**	29-Dec-2021	✓
Soil Glass Jar - Unpreserved (EP080)							
D03_20211217, BUR_BH120_0.2, BUR_BH108_0.2, D04_20211217, BUR_BH108_0.5, BUR_BH108_5.8, BUR_BH108_20.0, BUR_BH106_0.2, BUR_BH106_2.0, BUR_BH106_4.0, D02_20211217, BUR_BH107_1.0, BUR_BH107_3.0, BUR_BH107_5.0	**17-Dec-2021**	**23-Dec-2021**	31-Dec-2021	✓	**24-Dec-2021**	31-Dec-2021	✓
Soil Glass Jar - Unpreserved (EP080)							
BUR_BH120_0.5, BUR_BH108_2.0, BUR_BH108_11.0, BUR_BH108_17.0, BUR_BH106_1.0, BUR_BH106_3.0, BUR_BH106_5.0, BUR_BH107_0.2	**17-Dec-2021**	**23-Dec-2021**	31-Dec-2021	✓	**29-Dec-2021**	31-Dec-2021	✓
Soil Glass Jar - Unpreserved (EP071)							
D03_20211217, BUR_BH120_0.2, BUR_BH120_0.5, BUR_BH108_0.2, D04_20211217, BUR_BH108_0.5, BUR_BH108_2.0, BUR_BH108_5.8, BUR_BH108_11.0, BUR_BH108_20.0, BUR_BH108_17.0, BUR_BH106_0.2, BUR_BH106_1.0, BUR_BH106_2.0, BUR_BH106_3.0, BUR_BH106_4.0, BUR_BH106_5.0, D02_20211217, BUR_BH107_0.2, BUR_BH107_1.0, BUR_BH107_3.0, BUR_BH107_5.0	**17-Dec-2021**	**29-Dec-2021**	31-Dec-2021	✓	**30-Dec-2021**	07-Feb-2022	✓

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions							
Soil Glass Jar - Unpreserved (EP080)							
Trip Blank 1 - Received as extra sample	**15-Dec-2021**	**23-Dec-2021**	29-Dec-2021	✓	**29-Dec-2021**	29-Dec-2021	✓
Soil Glass Jar - Unpreserved (EP080)							
D03_20211217, BUR_BH120_0.2, BUR_BH108_0.2, D04_20211217, BUR_BH108_0.5, BUR_BH108_5.8, BUR_BH108_20.0, BUR_BH106_0.2, BUR_BH106_2.0, BUR_BH106_4.0, D02_20211217, BUR_BH107_1.0, BUR_BH107_3.0, BUR_BH107_5.0	**17-Dec-2021**	**23-Dec-2021**	31-Dec-2021	✓	**24-Dec-2021**	31-Dec-2021	✓
Soil Glass Jar - Unpreserved (EP080)							
BUR_BH120_0.5, BUR_BH108_2.0, BUR_BH108_11.0, BUR_BH108_17.0, BUR_BH106_1.0, BUR_BH106_3.0, BUR_BH106_5.0, BUR_BH107_0.2	**17-Dec-2021**	**23-Dec-2021**	31-Dec-2021	✓	**29-Dec-2021**	31-Dec-2021	✓
Soil Glass Jar - Unpreserved (EP071)							
D03_20211217, BUR_BH120_0.2, BUR_BH120_0.5, BUR_BH108_0.2, D04_20211217, BUR_BH108_0.5, BUR_BH108_2.0, BUR_BH108_5.8, BUR_BH108_11.0, BUR_BH108_20.0, BUR_BH108_17.0, BUR_BH106_0.2, BUR_BH106_1.0, BUR_BH106_2.0, BUR_BH106_3.0, BUR_BH106_4.0, BUR_BH106_5.0, D02_20211217, BUR_BH107_0.2, BUR_BH107_1.0, BUR_BH107_3.0, BUR_BH107_5.0	**17-Dec-2021**	**29-Dec-2021**	31-Dec-2021	✓	**30-Dec-2021**	07-Feb-2022	✓

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP080: BTEXN							
Soil Glass Jar - Unpreserved (EP080)							
Trip Spike 23 - Received as extra sample, TSC 23	**13-Dec-2021**	**23-Dec-2021**	27-Dec-2021	✓	**24-Dec-2021**	27-Dec-2021	✓
Soil Glass Jar - Unpreserved (EP080)							
Trip Blank 1 - Received as extra sample	**15-Dec-2021**	**23-Dec-2021**	29-Dec-2021	✓	**29-Dec-2021**	29-Dec-2021	✓
Soil Glass Jar - Unpreserved (EP080)							
D03_20211217, BUR_BH120_0.2, BUR_BH108_0.2, D04_20211217, BUR_BH108_0.5, BUR_BH108_5.8, BUR_BH108_20.0, BUR_BH106_0.2, BUR_BH106_2.0, BUR_BH106_4.0, D02_20211217, BUR_BH107_1.0, BUR_BH107_3.0, BUR_BH107_5.0	**17-Dec-2021**	**23-Dec-2021**	31-Dec-2021	✓	**24-Dec-2021**	31-Dec-2021	✓
Soil Glass Jar - Unpreserved (EP080)							
BUR_BH120_0.5, BUR_BH108_2.0, BUR_BH108_11.0, BUR_BH108_17.0, BUR_BH106_1.0, BUR_BH106_3.0, BUR_BH106_5.0, BUR_BH107_0.2	**17-Dec-2021**	**23-Dec-2021**	31-Dec-2021	✓	**29-Dec-2021**	31-Dec-2021	✓
EP231A: Perfluoroalkyl Sulfonic Acids							
HDPE Soil Jar (EP231X)							
D03_20211217, BUR_BH120_0.5, BUR_BH108_0.2, D04_20211217, BUR_BH108_0.5, BUR_BH108_20.0, BUR_BH106_0.2, BUR_BH106_4.0, D02_20211217, BUR_BH107_0.2, BUR_BH107_3.0	**17-Dec-2021**	**30-Dec-2021**	15-Jun-2022	✓	**31-Dec-2021**	08-Feb-2022	✓
EP231B: Perfluoroalkyl Carboxylic Acids							
HDPE Soil Jar (EP231X)							
D03_20211217, BUR_BH120_0.5, BUR_BH108_0.2, D04_20211217, BUR_BH108_0.5, BUR_BH108_20.0, BUR_BH106_0.2, BUR_BH106_4.0, D02_20211217, BUR_BH107_0.2, BUR_BH107_3.0	**17-Dec-2021**	**30-Dec-2021**	15-Jun-2022	✓	**31-Dec-2021**	08-Feb-2022	✓
EP231C: Perfluoroalkyl Sulfonamides							
HDPE Soil Jar (EP231X)							
D03_20211217, BUR_BH120_0.5, BUR_BH108_0.2, D04_20211217, BUR_BH108_0.5, BUR_BH108_20.0, BUR_BH106_0.2, BUR_BH106_4.0, D02_20211217, BUR_BH107_0.2, BUR_BH107_3.0	**17-Dec-2021**	**30-Dec-2021**	15-Jun-2022	✓	**31-Dec-2021**	08-Feb-2022	✓

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP231D: (n:2) Fluorotelomer Sulfonic Acids							
HDPE Soil Jar (EP231X)							
D03_20211217, BUR_BH108_0.2, BUR_BH108_0.5, BUR_BH106_0.2, D02_20211217, BUR_BH107_3.0, BUR_BH120_0.5, D04_20211217, BUR_BH108_20.0, BUR_BH106_4.0, BUR_BH107_0.2,	**17-Dec-2021**	**30-Dec-2021**	15-Jun-2022	✓	**31-Dec-2021**	08-Feb-2022	✓
EP231P: PFAS Sums							
HDPE Soil Jar (EP231X)							
D03_20211217, BUR_BH108_0.2, BUR_BH108_0.5, BUR_BH106_0.2, D02_20211217, BUR_BH107_3.0, BUR_BH120_0.5, D04_20211217, BUR_BH108_20.0, BUR_BH106_4.0, BUR_BH107_0.2,	**17-Dec-2021**	**30-Dec-2021**	15-Jun-2022	✓	**31-Dec-2021**	08-Feb-2022	✓

Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EG020F: Dissolved Metals by ICP-MS							
Clear Plastic Bottle - Nitric Acid; Unfiltered (EG020A-F)							
R03_20211217 - Received as extra sample	**17-Dec-2021**	**----**	----	----	**24-Dec-2021**	15-Jun-2022	✓
EG035F: Dissolved Mercury by FIMS							
Clear Plastic Bottle - Nitric Acid; Unfiltered (EG035F)							
R03_20211217 - Received as extra sample	**17-Dec-2021**	**----**	----	----	**24-Dec-2021**	31-Dec-2021	✓
EP080/071: Total Petroleum Hydrocarbons							
Amber Glass Bottle - Unpreserved (EP071)							
R03_20211217 - Received as extra sample	**17-Dec-2021**	**23-Dec-2021**	24-Dec-2021	✓	**29-Dec-2021**	01-Feb-2022	✓
Amber VOC Vial - Sulfuric Acid (EP080)							
R03_20211217 - Received as extra sample	**17-Dec-2021**	**31-Dec-2021**	31-Dec-2021	✓	**31-Dec-2021**	31-Dec-2021	✓
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions							
Amber Glass Bottle - Unpreserved (EP071)							
R03_20211217 - Received as extra sample	**17-Dec-2021**	**23-Dec-2021**	24-Dec-2021	✓	**29-Dec-2021**	01-Feb-2022	✓
Amber VOC Vial - Sulfuric Acid (EP080)							
R03_20211217 - Received as extra sample	**17-Dec-2021**	**31-Dec-2021**	31-Dec-2021	✓	**31-Dec-2021**	31-Dec-2021	✓
EP080: BTEXN							
Amber VOC Vial - Sulfuric Acid (EP080)							
R03_20211217 - Received as extra sample	**17-Dec-2021**	**31-Dec-2021**	31-Dec-2021	✓	**31-Dec-2021**	31-Dec-2021	✓
EP231A: Perfluoroalkyl Sulfonic Acids							
HDPE (no PTFE) (EP231X)							
R03_20211217 - Received as extra sample	**17-Dec-2021**	**30-Dec-2021**	15-Jun-2022	✓	**31-Dec-2021**	15-Jun-2022	✓

Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP231B: Perfluoroalkyl Carboxylic Acids							
HDPE (no PTFE) (EP231X)							
R03_20211217 - Received as extra sample	**17-Dec-2021**	**30-Dec-2021**	15-Jun-2022	✓	**31-Dec-2021**	15-Jun-2022	✓
EP231C: Perfluoroalkyl Sulfonamides							
HDPE (no PTFE) (EP231X)							
R03_20211217 - Received as extra sample	**17-Dec-2021**	**30-Dec-2021**	15-Jun-2022	✓	**31-Dec-2021**	15-Jun-2022	✓
EP231D: (n:2) Fluorotelomer Sulfonic Acids							
HDPE (no PTFE) (EP231X)							
R03_20211217 - Received as extra sample	**17-Dec-2021**	**30-Dec-2021**	15-Jun-2022	✓	**31-Dec-2021**	15-Jun-2022	✓
EP231P: PFAS Sums							
HDPE (no PTFE) (EP231X)							
R03_20211217 - Received as extra sample	**17-Dec-2021**	**30-Dec-2021**	15-Jun-2022	✓	**31-Dec-2021**	15-Jun-2022	✓

Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(were) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

Matrix: **SOIL**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Laboratory Duplicates (DUP)							
Moisture Content	EA055	4	34	**11.76**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (SIM)	EP075(SIM)	4	38	**10.53**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	2	19	**10.53**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	4	34	**11.76**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	4	34	**11.76**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	4	36	**11.11**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	4	36	**11.11**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	4	38	**10.53**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	6	57	**10.53**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds	EP074	2	17	**11.76**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
PAH/Phenols (SIM)	EP075(SIM)	2	38	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	2	34	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	2	34	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	36	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	2	36	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	2	38	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	3	57	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds	EP074	1	17	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
PAH/Phenols (SIM)	EP075(SIM)	2	38	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	2	34	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	2	34	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	36	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	2	36	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	2	38	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	3	57	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds	EP074	1	17	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
PAH/Phenols (SIM)	EP075(SIM)	2	38	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	2	34	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	2	34	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	36	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard

Matrix: **SOIL**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Matrix Spikes (MS) - Continued							
Total Metals by ICP-AES	EG005T	2	36	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	2	38	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	3	57	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds	EP074	1	17	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard

Matrix: **WATER**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Laboratory Duplicates (DUP)							
Dissolved Mercury by FIMS	EG035F	2	17	**11.76**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Metals by ICP-MS - Suite A	EG020A-F	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	19	**5.26**	**10.00**	×	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	0	19	**0.00**	**10.00**	×	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Dissolved Mercury by FIMS	EG035F	1	17	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Metals by ICP-MS - Suite A	EG020A-F	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Dissolved Mercury by FIMS	EG035F	1	17	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Metals by ICP-MS - Suite A	EG020A-F	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Dissolved Mercury by FIMS	EG035F	1	17	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Metals by ICP-MS - Suite A	EG020A-F	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	0	19	**0.00**	**5.00**	×	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard

Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
Moisture Content	EA055	SOIL	In house: A gravimetric procedure based on weight loss over a 12 hour drying period at 105-110 degrees C. This method is compliant with NEPM Schedule B(3).
Asbestos Identification in Soils	EA200	SOIL	AS 4964 Method for the qualitative identification of asbestos in bulk samples Analysis by Polarised Light Microscopy including dispersion staining
Total Metals by ICP-AES	EG005T	SOIL	In house: Referenced to APHA 3120; USEPA SW 846 - 6010. Metals are determined following an appropriate acid digestion of the soil. The ICPAES technique ionises samples in a plasma, emitting a characteristic spectrum based on metals present. Intensities at selected wavelengths are compared against those of matrix matched standards. This method is compliant with NEPM Schedule B(3)
Total Mercury by FIMS	EG035T	SOIL	In house: Referenced to APHA 3112 Hg - B (Flow-injection (SnCl2) (Cold Vapour generation) AAS) FIM-AAS is an automated flameless atomic absorption technique. Mercury in solids are determined following an appropriate acid digestion. Ionic mercury is reduced online to atomic mercury vapour by SnCl2 which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM Schedule B(3)
Polychlorinated Biphenyls (PCB)	EP066	SOIL	In house: Referenced to USEPA SW 846 - 8270 Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3).
Pesticides by GCMS	EP068	SOIL	In house: Referenced to USEPA SW 846 - 8270 Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This technique is compliant with NEPM Schedule B(3).
TRH - Semivolatile Fraction	EP071	SOIL	In house: Referenced to USEPA SW 846 - 8015 Sample extracts are analysed by Capillary GC/FID and quantified against alkane standards over the range C10 - C40. Compliant with NEPM Schedule B(3).
Volatile Organic Compounds	EP074	SOIL	In house: Referenced to USEPA SW 846 - 8260 Extracts are analysed by Purge and Trap, Capillary GC/MS. Quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3).
PAH/Phenols (SIM)	EP075(SIM)	SOIL	In house: Referenced to USEPA SW 846 - 8270. Extracts are analysed by Capillary GC/MS in Selective Ion Mode (SIM) and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3)
TRH Volatiles/BTEX	EP080	SOIL	In house: Referenced to USEPA SW 846 - 8260. Extracts are analysed by Purge and Trap, Capillary GC/MS. Quantification is by comparison against an established 5 point calibration curve. Compliant with NEPM Schedule B(3) amended.
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	SOIL	In-house: Analysis of soils by solvent extraction followed by LC-Electrospray-MS-MS, Negative Mode using MRM using internal standard quantitation. Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to a portion of soil which is then extracted with MTBE and an ion pairing reagent. A portion of extract is exchanged into the analytical solvent mixture, combined with an equal volume reagent water and filtered for analysis. Method procedures and data quality objectives conform to US DoD QSM 5.3, table B-15 requirements.

Analytical Methods	Method	Matrix	Method Descriptions
Dissolved Metals by ICP-MS - Suite A	EG020A-F	WATER	In house: Referenced to APHA 3125; USEPA SW846 - 6020, ALS QWI-EN/EG020. Samples are 0.45µm filtered prior to analysis. The ICPMS technique utilizes a highly efficient argon plasma to ionize selected elements. Ions are then passed into a high vacuum mass spectrometer, which separates the analytes based on their distinct mass to charge ratios prior to their measurement by a discrete dynode ion detector.
Dissolved Mercury by FIMS	EG035F	WATER	In house: Referenced to APHA 3112 Hg - B (Flow-injection (SnCl2)(Cold Vapour generation) AAS) Samples are 0.45µm filtered prior to analysis. FIM-AAS is an automated flameless atomic absorption technique. A bromate/bromide reagent is used to oxidise any organic mercury compounds in the filtered sample. The ionic mercury is reduced online to atomic mercury vapour by SnCl2 which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM Schedule B(3).
TRH - Semivolatile Fraction	EP071	WATER	In house: Referenced to USEPA SW 846 - 8015 The sample extract is analysed by Capillary GC/FID and quantification is by comparison against an established 5 point calibration curve of n-Alkane standards. This method is compliant with the QC requirements of NEPM Schedule B(3)
TRH Volatiles/BTEX	EP080	WATER	In house: Referenced to USEPA SW 846 - 8260 Water samples are directly purged prior to analysis by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. Alternatively, a sample is equilibrated in a headspace vial and a portion of the headspace determined by GCMS analysis. This method is compliant with the QC requirements of NEPM Schedule B(3)
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	WATER	In-house: Analysis of fresh and saline waters by Solid Phase Extraction (SPE) followed by LC-Electrospray-MS-MS, Negative Mode using MRM and internal standard quantitation. Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to the sample container. The entire contents are transferred to a solid phase extraction (SPE) cartridge. The sample container is successively rinsed with aliquots of the elution solvent. The eluted extract is combined with an equal volume of reagent water and a portion is filtered for analysis. Method procedures and data quality objectives conform to US DoD QSM 5.3, table B-15 requirements.

Preparation Methods	Method	Matrix	Method Descriptions
Hot Block Digest for metals in soils sediments and sludges	EN69	SOIL	In house: Referenced to USEPA 200.2. Hot Block Acid Digestion 1.0g of sample is heated with Nitric and Hydrochloric acids, then cooled. Peroxide is added and samples heated and cooled again before being filtered and bulked to volume for analysis. Digest is appropriate for determination of selected metals in sludge, sediments, and soils. This method is compliant with NEPM Schedule B(3).
Methanolic Extraction of Soils for Purge and Trap	ORG16	SOIL	In house: Referenced to USEPA SW 846 - 5030A. 5g of solid is shaken with surrogate and 10mL methanol prior to analysis by Purge and Trap - GC/MS.
Tumbler Extraction of Solids	ORG17	SOIL	In house: Mechanical agitation (tumbler). 10g of sample, Na2SO4 and surrogate are extracted with 30mL 1:1 DCM/Acetone by end over end tumble. The solvent is decanted, dehydrated and concentrated (by KD) to the desired volume for analysis.
QuECheRS Extraction of Solids	ORG71	SOIL	In house: Sequential extractions with Acetonitrile/Methanol by shaking. Extraction efficiency aided by the addition of salts under acidic conditions. Where relevant, interferences from co-extracted organics are removed with dispersive clean-up media (dSPE). The extract is either diluted or concentrated and exchanged into the analytical solvent.

Preparation Methods	Method	Matrix	Method Descriptions
Separatory Funnel Extraction of Liquids	ORG14	WATER	In house: Referenced to USEPA SW 846 - 3510 100 mL to 1L of sample is transferred to a separatory funnel and serially extracted three times using DCM for each extract. The resultant extracts are combined, dehydrated and concentrated for analysis. This method is compliant with NEPM Schedule B(3) . ALS default excludes sediment which may be resident in the container.
Volatiles Water Preparation	ORG16-W	WATER	A 5 mL aliquot or 5 mL of a diluted sample is added to a 40 mL VOC vial for purging.
Solid Phase Extraction (SPE) for PFAS in water	ORG72	WATER	In-house: Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to the sample container. The entire contents are transferred to a solid phase extraction (SPE) cartridge. The sample container is successively rinsed with aliquots of the elution solvent. The eluted extract is combined with an equal volume of reagent water and a portion is filtered for analysis. Method procedures conform to US DoD QSM 5.3, table B-15 requirements.

CHAIN OF CUSTODY

CLIENT:	ERM	TURNAROUND REQUIREMENTS:	FOR LABORATORY USE ONLY
OFFICE:	Sydney		
PROJECT:	0577527 - Burwood	ALS QUOTE NO:	COC SEQUENCE NUMBER (Circle)
ORDER NUMBER:			
PROJECT MANAGER:	Jessica Lawrence	CONTACT PH: 0404935554	
SAMPLER:	Tristan Rodrigues	SAMPLER MOBILE: 0417187687	RELINQUISHED BY: Tristan Rodrigues
COC emailed to ALS? YES		EDD FORMAT (or default):	DATE/TIME: 20/12/21
Email Reports to:			RECEIVED BY: [illegible]
Email Invoice to:			DATE/TIME: 20/12/21 1750

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE ONLY	SAMPLE DETAILS MATRIX: Soil (S) Water (W)			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB: Suite Codes must be listed to attract suite price)					Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PREservative (refer to codes above)	TOTAL BOTTLES	PFAS (28 analytes) LOR= 2ng/kg	S16	Asbestos	VOC	HOLD	
1	DD3 - 20211217	17/12/21	S			X	X		X		
—	TD3 - 20211217					X	X		X		Please Send to Eurofins
2	BUR - BH120 - 0.2						X		X		
	- 0.5					X	X				
3	BUR - BH105 - 0.2					X	X		X		
4	DD4 - 20211217					X	X		X		
—	TD4 - 20211217					X	X		X		Please Send to Eurofins
5	BUR - BH106 - 0.5					X	X		X		
6	- 2.0						X				
7	- 3.8						X		X		
8	- 11.0						X				
9	- 20.0					X	X		X		
10	- 17.0						X				

Water Container Codes: P = [illegible]

Environmental Division
Sydney
Work Order Reference
ES2146625

Telephone : +61-2-8784 8555

CHAIN OF CUSTODY

ALS Laboratory: please tick →

CLIENT:	ERM	TURNAROUND REQUIREMENTS: ☐ Standard TAT (7 day) ☐ Non Standard or urgent TAT (End date)	FOR LABORATORY USE ONLY (Circle)
OFFICE:	Sydney		
PROJECT:	0577577 - Burwood	ALS QUOTE NO.:	COC SEQUENCE NUMBER (Circle) COC 1 2 3 4 5 6 7 OF 1 2 3 4 5 6 7
ORDER NUMBER:			Random Sample Temperature on Receipt: 25
PROJECT MANAGER:	Jessica Lawrence	CONTACT PH: 0404935554	
SAMPLER:	Tristan Rodrigues	SAMPLER MOBILE: 0417187687	
COC emailed to ALS? YES		EDD FORMAT (or default):	
Email Reports to:	jessica.lawrence@erm.com; tristan.rodrigues@erm.com		
Email Invoice to:	jessica.lawrence@erm.com		

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Tristan Rodrigues			
DATE/TIME: 20/12/21	DATE/TIME: 20/12/21 1750	DATE/TIME:	DATE/TIME:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE ONLY	SAMPLE DETAILS (MATRIX: Soil(S) Water(W))			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB: Suite Codes must be listed to attract suite prices)					Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL BOTTLES	PFAS (28 analytes) LOR=5ng/kg	31B	Asbestos	VOC	HOLD	
11	BaR_BH06_0.2	17/12/21	S			X	X	X	X		
12	_1.0						X				
13	_2.0						X		X		
14	_3.0						X				
15	_4.0					X	X		X		
16	_5.0						X				
17	DO2_20211217					X	X		X		
—	TO2_20211217					X	X		X		Please Send to Eurofins
18	BaR_BH07_0.2					X	X	X			
19	_1.0						X		X		
20	_2.0						[illegible]				
21	_3.0					X	X		X		
	[redacted]						[illegible]				
22	_5.6					[illegible]	X		X		

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide/Cd Preserved; S = Sodium Hydroxide Preserved Plastic; AG = Amber Glass Unpreserved; AP = Airfreight Unpreserved Plastic; [illegible]

Subcon / [illegible] / Split WO:

Lab / Analysis: Newcastle → Asbestos

Organised By / Date: Eurofins → TO3_20211217

Relinquished By / Date: TO4_20211217

Connote / Courier: TO2_20211217

WO No:

Attached to / Original Sheet:

CHAIN OF CUSTODY

ALS Laboratory: please log in

ERM Sydney	TURNAROUND REQUIREMENTS: ☐ Standard TAT (List due date) ☐ Non Standard or urgent TAT (List due date)		FOR LABORATORY USE ONLY (Circle)
PROJECT: 0527577 - Burwood	ALS QUOTE NO.:	COC SEQUENCE NUMBER (Circle)	
ORDER NUMBER:			
PROJECT MANAGER: Jessica Lawrence	CONTACT PH: 0404939554		2.5
SAMPLER: Tristan Rodrigues	SAMPLER MOBILE: 0417187687	RELINQUISHED BY: Tristan Rodrigues	RECEIVED BY: SOOSH/NO ALS
COC emailed to ALS? YES	EDD FORMAT (or default):	DATE/TIME: 20/12/21	DATE/TIME: 20/12/21 1750
Email Reports to: jessica.lawrence@erm.com; tristan.rodrigues@erm.com			
Email Invoice to: jessica.lawrence@erm.com			
COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:			

ALS USE ONLY	SAMPLE DETAILS MATRIX: Soil(S) Water(W)			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB: Suite Codes must be listed to attract suite price)					Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PREservative (refer to table below)	TOTAL BOTTLES	PFAS (28 analytes) LOR = 0.5µg/kg	ESA	Asbestos	VOC	HOLD	
1	DO3_20211217	17/12/21	Soil			X	X		X		
1	TO3_20211217					X	X		X		Please Send to Eurofins
2	BUR_BH120_0.2						X		X		
3	-0.5					X	X				
4	BUR_BH105_0.2					X	X		X		
5	DO4_20211217					X	X		X		
1	TO4_20211217					X	X		X		Please Send to Eurofins
6	BUR_BH105_0.5					X	X		X		
7	-2.0						X				
8	-3.8						X		X		
9	-11.0						X				
10	-20.0					X	X		X		
11	-17.0						X				

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ZP = Zinc Acetate Preserved Plastic; AG = Sulphuric Preserved Amber Glass; S = Sulphuric Preserved Plastic; AV = Hydrochloric Preserved Plastic; B = Unpreserved Amber Glass; H = Hydrochloric Preserved Plastic; E = Nitric Preserved Amber Glass; SD = Sodium Hydroxide/Cd Preserved Plastic

Environmental Division
Sydney
Work Order Reference
ES2146625

Telephone : +61-2-8784 8555

CHAIN OF CUSTODY

ALS Laboratory: please tick →

CLIENT:	ERM	TURNAROUND REQUIREMENTS:	FOR LABORATORY USE ONLY (Circle)
OFFICE:	Sydney	ALS QUOTE NO.:	COC SEQUENCE NUMBER (Circle)
PROJECT:	0577577 - Burwood		
ORDER NUMBER:			
PROJECT MANAGER:	Jessica Lawrence	CONTACT PH: 0484915554	
SAMPLER:	Tristan Rodrigues	SAMPLER MOBILE: 0417187687	
COC emailed to ALS?	YES	EDD FORMAT (or default):	
Email Reports to:	jessica.lawrence@erm.com; tristan.rodrigues@erm.com		
Email Invoice to:	jessica.lawrence@erm.com		

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Tristan Rodrigues			
DATE/TIME: 20/12/21	DATE/TIME: 20/12/21 1750	DATE/TIME:	DATE/TIME:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE ONLY	SAMPLE DETAILS MATRIX: Soil(S) Water(W)			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB: Suite Codes must be listed to attract suite prices)					Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL BOTTLES	PFAS (28 analytes) LOR= 5ug/kg	BTEX	Asbestos	VOC	HOLD	
12	BUR_BH106_0.2	17/12/21	Soil			X	X	X	X		
13	_1.0						X				
14	_2.0						X		X		
15	_3.0						X				
16	_4.0					X	X		X		
17	_5.0						X				
18	D02_20211217					X	X		X		
1	T02_20211217					X	X		X		Please Send to Eurofins
19	BUR_BH107_0.2					X	X	X			
20	_1.0						X		X		
21	_2.0						[illegible]				
22	_3.0					X	X		X		
[redacted]											
23	_5.0						X		X		

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide Preserved Plastic; S = Sodium Hydroxide Preserved Plastic; AG = Amber Glass Unpreserved; AP = Airfreight Unpreserved Plastic; [illegible]

24	BUR_BH102_0.15	16/12/21	29	Trip Spike 24	13/12/21
25	Trip Blank 1	15/12/21	30	TSC 24	13/12/21
26	Trip Spike 23	13/12/21	31	R03_20211217	17/12/21
27	TSC 23	13/12/21			
28	Trip Blank 2	15/12/21			

Subcon / Lab / Split WO:
Lab / Analysis: Newcastle → Asbestos
Organised By / Date: Eurofins → TO3_20211217
Relinquished By / Date: TO4_20211217
Connote / Courier: TO2_20211217
WO No:
Attached to / Internal Sheet:

CHAIN OF CUSTODY

CLIENT: ERM	TURNAROUND REQUIREMENTS:		FOR LABORATORY USE ONLY (Circle)
OFFICE: Sydney			
PROJECT: 0327577 - Burwood	ALS QUOTE NO.:	COC SEQUENCE NUMBER (Circle)	
ORDER NUMBER:			
PROJECT MANAGER: Jessica Lawrence	CONTACT PH: 0404933554		2.5
SAMPLER: Tristan Rodrigues	SAMPLER MOBILE: 0417187687		
COC emailed to ALS? YES	EDD FORMAT (or default):	RELINQUISHED BY: Tristan Rodrigues	RECEIVED BY: SOS/T/No AS.
Email Reports to:		DATE/TIME: 20/12/21	DATE/TIME: 20/12/21 1750
Email Invoice to:		RELINQUISHED BY:	RECEIVED BY:
COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:		DATE/TIME:	DATE/TIME:

ALS USE ONLY	SAMPLE DETAILS (MATRIX: Soil(S) / Water(W))			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB: Suite Codes must be listed to attract Suite prices)					Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL BOTTLES	PFAS (28 analytes) LOR = 5ug/kg	STS	Asbestos	VOC	HOLD	
1	DO3_20211217	17/12/21	Soil			Y	Y		Y		
—	TO3_20211217					Y	Y		Y		Please Send to Eurofins
2	BUR_BH120_0.3						X		X		
3	-0.5					X	X				
4	BUR_BH105_0.2					X	X		X		
5	DO4_20211217					X	X		X		
—	TO4_20211217					X	X		X		Please Send to Eurofins
6	BUR_BH105_0.5					X	X		X		
7	-2.0						X				
8	-5.8						X		X		
9	-11.0						X				
10	-20.0					X	X		X		
11	-17.0						X				

Water Container Codes: P = Natural Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide/Cd Preserved; S = Sodium Hydroxide Preserved Plastic; AG = Amber Glass Unpreserved; H = Hydrochloric Preserved Plastic; ...

extra #12A to be tested for Asbestos ID.
TB + TS (one set) to be tested - default analys.
RO3 to be tested for PFAS, TRH/BTEX/metals
} as discussed with Tristan 21/12/21

Environmental Division
Sydney
Work Order Reference
ES2146625

Telephone : +61-2-8784 8555

CHAIN OF CUSTODY

ALS

CLIENT:	ERM	TURNAROUND REQUIREMENTS	FOR LABORATORY USE ONLY
OFFICE:	Sydney		
PROJECT:	0577577 - Burwood	ALS QUOTE NO.:	COC SEQUENCE NUMBER
ORDER NUMBER:			
PROJECT MANAGER:	Jessica Lawrence	CONTACT PH: 0404935554	
SAMPLER:	Tristan Rodrigues	SAMPLER MOBILE: 0417187687	
COC emailed to ALS? YES		EDD FORMAT (or default):	
E-mail Reports to:	jessica.lawrence@erm.com; tristan.rodrigues@erm.com		
E-mail Invoice to:	jessica.lawrence@erm.com		

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Tristan Rodrigues			
DATE/TIME: 20/12/21	DATE/TIME: 20/12/21 1750	DATE/TIME:	DATE/TIME:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE ONLY	SAMPLE DETAILS (MATRIX: Soil/Sed / Water (W))			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB: Suite Codes must be listed to attract suite price)					Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL BOTTLES	PFAS (28 analytes) LOR= 5ng/kg	515	Asbestos	VOC	HOLD	
12	BUR_BH106_0.2	17/12/21	Soil			X	X	X	X		
13	-1.0						X				
14	-2.0						X		X		
15	-3.0						X				
16	-4.0					X	X		X		
17	-5.0						X				
18	DQ2_20211217					X	X		X		
1	TQ2_20211217					X	X		X		Please Send to Eurofins
19	BUR_BH107_0.2					X	X	X			
20	-1.0						X		X		
21	-2.0						[illegible]				
22	-3.0					X	X		X		
	[redacted]						[illegible]				
23	-5.0					[illegible]	X		X		

Water Container Codes: P - Unpreserved Plastic; N - Nitric Preserved Plastic; ORC - Nitric Preserved ORC; SH - Sodium Hydroxide Preserved Plastic; S - Sodium Hydroxide Preserved Plastic; AG - Amber Glass Unpreserved; AP - Airfreight Unpreserved Plastic; V - HCl Preserved Vial; SG - Sulfuric Preserved Amber Glass; H - HCl preserved Plastic; HS - HCl preserved Speciation bottle; ST - Sulfuric Preserved Plastic; E - Nitric Preserved EDA; B - NaOH Preserved Bottle; Z - Zinc Acetate; ZA - Zinc Acetate + Ascorbic Acid; C - Unpreserved Clear Glass; Soil Container Codes: J - Unpreserved Plastic; E - EDTA Preserved Bottle; Z - Zinc Acetate; AG - Amber Glass Unpreserved; AP - Airfreight Unpreserved Plastic; C - Unpreserved Clear Glass

24	BUR_BH102_0.15	16/12/21	29	Trip Spike 24	13/12/21
25	Trip Blank 1	15/12/21	30	TSC 24	13/12/21
26	Trip Spike 23	13/12/21	31	EQ3_20211217	17/12/21
27	TSC 23	13/12/21			
28	Trip Blank 2	15/12/21			

ALS Environmental

CERTIFICATE OF ANALYSIS

Work Order	: **ES2146990**	Page	: 1 of 88
Amendment	: **3**		
Client	: **ENVIRONMENTAL RESOURCES MANAGEMENT (ERM)**	Laboratory	: Environmental Division Sydney
Contact	: MS JESSICA LAWRENCE	Contact	: Customer Services ES
Address	: LEVEL 15 309 KENT STREET SYDNEY NSW AUSTRALIA 2000	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: +61 02 8584 8888	Telephone	: +61-2-8784 8555
Project	: 0577577 - Burwood	Date Samples Received	: 22-Dec-2021 14:10
Order number	: ----	Date Analysis Commenced	: 23-Dec-2021
C-O-C number	: ----	Issue Date	: 02-Feb-2022 15:10
Sampler	: TRISTAN RODRIGUES		
Site	: ----		
Quote number	: EN/114		
No. of samples received	: 58		
No. of samples analysed	: 51		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Descriptive Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Alana Smylie	Asbestos Identifier	Newcastle - Asbestos, Mayfield West, NSW
Alex Rossi	Organic Chemist	Sydney Organics, Smithfield, NSW
Evie Sidarta	Inorganic Chemist	Sydney Inorganics, Smithfield, NSW
Franco Lentini	LCMS Coordinator	Sydney Inorganics, Smithfield, NSW
Franco Lentini	LCMS Coordinator	Sydney Organics, Smithfield, NSW
Wisam Marassa	Inorganics Coordinator	Sydney Inorganics, Smithfield, NSW

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) per the NEPM (2013) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a.h)anthracene (1.0), Benzo(g.h.i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero, for 'TEQ 1/2LOR' are treated as half the reported LOR, and for 'TEQ LOR' are treated as being equal to the reported LOR. Note: TEQ 1/2LOR and TEQ LOR will calculate as 0.6mg/Kg and 1.2mg/Kg respectively for samples with non-detects for all of the eight TEQ PAHs.
- EA200: Asbestos Identification Samples were analysed by Polarised Light Microscopy including dispersion staining.
- EP231X - Per- and Polyfluoroalkyl Substances (PFAS): Samples received in 20ml or 125ml bottles have been tested in accordance with the QSM5.3 compliant, NATA accredited method. 60mL or 250mL bottles have been tested to the legacy QSM 5.1 aligned, NATA accredited method.
- EP080: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EP068: Where reported, Total Chlordane (sum) is the sum of the reported concentrations of cis-Chlordane and trans-Chlordane at or above the LOR.
- EP068: Where reported, Total OCP is the sum of the reported concentrations of all Organochlorine Pesticides at or above LOR.
- EP074: Where reported, Total Trihalomethanes is the sum of the reported concentrations of all Trihalomethanes at or above the LOR.
- EP074: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EP074: Where reported, Sum of chlorinated hydrocarbons includes carbon tetrachloride, chlorobenzene, chloroform, 1,2-dichlorobenzene, 1,4-dichlorobenzene, 1,2-dichloroethane, 1,1-dichloroethene, cis-1,2-dichlorothene, trans-1,2-dichlorothene, 1,1,1,2-tetrachloroethane, 1,1,2,2-tetrachloroethane, 1,2,4-trichlorobenzene, 1,1,1-trichloroethane, 1,1,2-trichloroethane, trichloroethene, vinyl chloride, hexachlorobutadiene and methylene chloride.
- EP074: Where reported, Total Trimethylbenzenes is the sum of the reported concentrations of 1.2.3-Trimethylbenzene, 1.2.4-Trimethylbenzene and 1.3.5-Trimethylbenzene at or above the LOR.
- EP075(SIM): Where reported, Total Cresol is the sum of the reported concentrations of 2-Methylphenol and 3- & 4-Methylphenol at or above the LOR.
- EP066 : Positive PCB result is confirmed by re-extraction and re-analysis.
- EG035: Positive Mercury result ES2146990#48 has been confirmed by reanalysis.
- **EA200 Legend**
- EA200 'Am' Amosite (brown asbestos)
- EA200 'Cr' Crocidolite (blue asbestos)
- EA200 'Ch' Chrysotile (white asbestos)
- EA200: 'UMF' Unknown Mineral Fibres. "-" indicates fibres detected may or may not be asbestos fibres. Confirmation by alternative techniques is recommended.
- EA200: Analysis of asbestos from swabs and tapes is not covered under the current scope of NATA accreditation.
- Amendment (19/01/2022): This report has been amended as a result of a request to change sample identification numbers (IDs) received 19/01/2022, for samples ES2146990-038. All analysis results are as per the previous report.

- Amendment (01/02/2022): This report has been amended as a result of misinterpretation of sample identification numbers (IDs) for Sample 051. All analysis results are as per the previous report.
- EP080: The trip spike and its control have been analysed for volatile TPH and BTEXN only. The trip spike and control were prepared in the lab using reagent grade sand spiked with petrol. The spike was dispatched from the lab and the control retained.
- Amendment (02/02/2022):This report has been amended to changed LOR for PFAS analysis to 5ug/kg.
- EA200 'Trace' - Asbestos fibres ("Free Fibres") detected by trace analysis per AS4964. The result can be interpreted that the sample contains detectable 'respirable' asbestos fibres
- EA200: For samples larger than 30g, the <2mm fraction may be sub-sampled prior to trace analysis as outlined in ISO23909:2008(E) Sect 6.3.2-2
- EA200: 'Yes' - Asbestos detected by polarised light microscopy including dispersion staining.
- EA200: 'No*' - No asbestos found, at the reporting limit of 0.1g/kg, by polarised light microscopy including dispersion staining. Asbestos material was detected and positively identified at concentrations estimated to be below 0.1g/kg.
- EA200: 'No' - No asbestos found at the reporting limit 0.1g/kg, by polarised light microscopy including dispersion staining.
- EA200: N/A - Not Applicable
- EP231: Stable isotope enriched internal standards are added to samples prior to extraction. Target compounds have a direct analogous internal standard with the exception of PFPeS, PFHpA, PFDS, PFTrDA and 10:2 FTS. These compounds use an internal standard that is chemically related and has a retention time close to that of the target compound. The DQO for internal standard response is 50-150% of that established at initial calibration. PFOS is quantified using a certified, traceable standard consisting of linear and branched PFOS isomers. These practices are in line with recommendations in the National Environmental Management Plan for PFAS (Australian HEPA) and also conform to QSM 5.3 (US DoD) requirements.

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH109_0.2	BUR_BH109_0.5	BUR_BH109_1.0	BUR_BH109_3.0	BUR_BH111_0.2
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-001	ES2146990-002	ES2146990-003	ES2146990-004	ES2146990-005
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	18.5	23.3	23.3	8.9	13.1
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Asbestos Detected	1332-21-4	0.1	g/kg	No	----	----	----	----
Asbestos (Trace)	1332-21-4	5	Fibres	No	----	----	----	----
Asbestos Type	1332-21-4	-	--	-	----	----	----	----
Synthetic Mineral Fibre	----	0.1	g/kg	No	----	----	----	----
Organic Fibre	----	0.1	g/kg	No	----	----	----	----
Sample weight (dry)	----	0.01	g	95.0	----	----	----	----
APPROVED IDENTIFIER:	----	-	--	A. SMYLIE	----	----	----	----
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	<5	9	16	12	<5
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg	5	26	16	8	13
Copper	7440-50-8	5	mg/kg	19	19	6	28	34
Lead	7439-92-1	5	mg/kg	48	100	16	12	80
Nickel	7440-02-0	2	mg/kg	8	6	<2	2	8
Zinc	7440-66-6	5	mg/kg	34	68	<5	13	86
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	0.2	<0.1	<0.1	<0.1
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Total Chlordane (sum)	----	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH109_0.2	BUR_BH109_0.5	BUR_BH109_1.0	BUR_BH109_3.0	BUR_BH111_0.2
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-001	ES2146990-002	ES2146990-003	ES2146990-004	ES2146990-005
				Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued								
Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
EP068B: Organophosphorus Pesticides (OP)								
Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
EP074A: Monocyclic Aromatic Hydrocarbons								

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH109_0.2	BUR_BH109_0.5	BUR_BH109_1.0	BUR_BH109_3.0	BUR_BH111_0.2
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-001	ES2146990-002	ES2146990-003	ES2146990-004	ES2146990-005
				Result	Result	Result	Result	Result
EP074A: Monocyclic Aromatic Hydrocarbons - Continued								
Styrene	100-42-5	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Isopropylbenzene	98-82-8	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
n-Propylbenzene	103-65-1	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
sec-Butylbenzene	135-98-8	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
tert-Butylbenzene	98-06-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
p-Isopropyltoluene	99-87-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
n-Butylbenzene	104-51-8	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
EP074B: Oxygenated Compounds								
Vinyl Acetate	108-05-4	5	mg/kg	<5	----	<5	----	<5
2-Butanone (MEK)	78-93-3	5	mg/kg	<5	----	<5	----	<5
4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	<5	----	<5	----	<5
2-Hexanone (MBK)	591-78-6	5	mg/kg	<5	----	<5	----	<5
EP074C: Sulfonated Compounds								
Carbon disulfide	75-15-0	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
EP074D: Fumigants								
2.2-Dichloropropane	594-20-7	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.2-Dichloropropane	78-87-5	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
EP074E: Halogenated Aliphatic Compounds								
Dichlorodifluoromethane	75-71-8	5	mg/kg	<5	----	<5	----	<5
Chloromethane	74-87-3	5	mg/kg	<5	----	<5	----	<5
Vinyl chloride	75-01-4	5	mg/kg	<5	----	<5	----	<5
Bromomethane	74-83-9	5	mg/kg	<5	----	<5	----	<5
Chloroethane	75-00-3	5	mg/kg	<5	----	<5	----	<5
Trichlorofluoromethane	75-69-4	5	mg/kg	<5	----	<5	----	<5
1.1-Dichloroethene	75-35-4	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Iodomethane	74-88-4	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.1-Dichloroethane	75-34-3	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	<0.5	----	<0.5	----	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH109_0.2	BUR_BH109_0.5	BUR_BH109_1.0	BUR_BH109_3.0	BUR_BH111_0.2
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-001	ES2146990-002	ES2146990-003	ES2146990-004	ES2146990-005
				Result	Result	Result	Result	Result
EP074E: Halogenated Aliphatic Compounds - Continued								
1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.1-Dichloropropylene	563-58-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Carbon Tetrachloride	56-23-5	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.2-Dichloroethane	107-06-2	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Trichloroethene	79-01-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Dibromomethane	74-95-3	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.3-Dichloropropane	142-28-9	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Tetrachloroethene	127-18-4	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Pentachloroethane	76-01-7	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
EP074F: Halogenated Aromatic Compounds								
Chlorobenzene	108-90-7	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Bromobenzene	108-86-1	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
2-Chlorotoluene	95-49-8	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
4-Chlorotoluene	106-43-4	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
EP074G: Trihalomethanes								
Chloroform	67-66-3	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Bromodichloromethane	75-27-4	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Dibromochloromethane	124-48-1	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Bromoform	75-25-2	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
EP074H: Naphthalene								
Naphthalene	91-20-3	1	mg/kg	<1	----	<1	----	<1

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH109_0.2	BUR_BH109_0.5	BUR_BH109_1.0	BUR_BH109_3.0	BUR_BH111_0.2
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-001	ES2146990-002	ES2146990-003	ES2146990-004	ES2146990-005
				Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	**0.6**
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	**0.6**
Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	**0.9**
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	**2.1**
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	**1.2**	**1.2**	**1.2**	**1.2**	**1.2**
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	10	mg/kg	<10	<10	<10	<10	<10
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
C15 - C28 Fraction	----	100	mg/kg	**110**	<100	<100	<100	<100
C29 - C36 Fraction	----	100	mg/kg	**330**	<100	<100	<100	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg	**440**	<50	<50	<50	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	<10	<10	<10
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	<10	<10	<10	<10
>C10 - C16 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
>C16 - C34 Fraction	----	100	mg/kg	**300**	<100	<100	<100	<100
>C34 - C40 Fraction	----	100	mg/kg	**380**	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	**680**	<50	<50	<50	<50

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH109_0.2	BUR_BH109_0.5	BUR_BH109_1.0	BUR_BH109_3.0	BUR_BH111_0.2
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-001	ES2146990-002	ES2146990-003	ES2146990-004	ES2146990-005
				Result	Result	Result	Result	Result
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued								
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	<50	<50	<50	<50
EP080: BTEXN								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of BTEX	----	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
^ Total Xylenes	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	91-20-3	1	mg/kg	<1	<1	<1	<1	<1
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	5.0	µg/kg	<5.0	----	----	<5.0	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	5.0	µg/kg	<5.0	----	----	<5.0	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	5.0	µg/kg	<5.0	----	----	<5.0	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	5.0	µg/kg	<5.0	----	----	<5.0	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	5.0	µg/kg	<5.0	----	----	<5.0	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	5.0	µg/kg	<5.0	----	----	<5.0	----
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	5	µg/kg	<5	----	----	<5	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	5.0	µg/kg	<5.0	----	----	<5.0	----
Perfluorohexanoic acid (PFHxA)	307-24-4	5.0	µg/kg	<5.0	----	----	<5.0	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	5.0	µg/kg	<5.0	----	----	<5.0	----
Perfluorooctanoic acid (PFOA)	335-67-1	5.0	µg/kg	<5.0	----	----	<5.0	----
Perfluorononanoic acid (PFNA)	375-95-1	5.0	µg/kg	<5.0	----	----	<5.0	----
Perfluorodecanoic acid (PFDA)	335-76-2	5.0	µg/kg	<5.0	----	----	<5.0	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	5.0	µg/kg	<5.0	----	----	<5.0	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH109_0.2	BUR_BH109_0.5	BUR_BH109_1.0	BUR_BH109_3.0	BUR_BH111_0.2
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-001	ES2146990-002	ES2146990-003	ES2146990-004	ES2146990-005
				Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorododecanoic acid (PFDoDA)	307-55-1	5.0	µg/kg	<5.0	----	----	<5.0	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	5.0	µg/kg	<5.0	----	----	<5.0	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	5.0	µg/kg	<5.0	----	----	<5.0	----
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	5.0	µg/kg	<5.0	----	----	<5.0	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	5.0	µg/kg	<5.0	----	----	<5.0	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	5.0	µg/kg	<5.0	----	----	<5.0	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	5.0	µg/kg	<5.0	----	----	<5.0	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	5.0	µg/kg	<5.0	----	----	<5.0	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	5.0	µg/kg	<5.0	----	----	<5.0	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	5.0	µg/kg	<5.0	----	----	<5.0	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	5.0	µg/kg	<5.0	----	----	<5.0	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	5.0	µg/kg	<5.0	----	----	<5.0	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	5.0	µg/kg	<5.0	----	----	<5.0	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	5.0	µg/kg	<5.0	----	----	<5.0	----
EP231P: PFAS Sums								
Sum of PFAS	----	5.0	µg/kg	<5.0	----	----	<5.0	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	5.0	µg/kg	<5.0	----	----	<5.0	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH109_0.2	BUR_BH109_0.5	BUR_BH109_1.0	BUR_BH109_3.0	BUR_BH111_0.2
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-001	ES2146990-002	ES2146990-003	ES2146990-004	ES2146990-005
				Result	Result	Result	Result	Result
EP231P: PFAS Sums - Continued								
Sum of PFAS (WA DER List)	----	5.0	µg/kg	<5.0	----	----	<5.0	----
EP066S: PCB Surrogate								
Decachlorobiphenyl	2051-24-3	0.1	%	103	116	123	116	126
EP068S: Organochlorine Pesticide Surrogate								
Dibromo-DDE	21655-73-2	0.05	%	94.0	116	118	108	116
EP068T: Organophosphorus Pesticide Surrogate								
DEF	78-48-8	0.05	%	111	117	91.4	82.3	123
EP074S: VOC Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.5	%	84.5	----	95.0	----	103
Toluene-D8	2037-26-5	0.5	%	94.5	----	99.9	----	100
4-Bromofluorobenzene	460-00-4	0.5	%	88.5	----	99.9	----	100
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.5	%	81.8	80.4	82.5	88.6	82.6
2-Chlorophenol-D4	93951-73-6	0.5	%	84.2	82.4	82.5	92.3	86.1
2.4.6-Tribromophenol	118-79-6	0.5	%	62.8	73.0	70.8	82.1	72.9
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.5	%	90.9	93.6	89.1	106	98.3
Anthracene-d10	1719-06-8	0.5	%	109	91.3	106	105	109
4-Terphenyl-d14	1718-51-0	0.5	%	102	104	98.1	106	101
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	82.2	77.9	92.6	105	100
Toluene-D8	2037-26-5	0.2	%	85.9	80.4	90.8	111	91.0
4-Bromofluorobenzene	460-00-4	0.2	%	81.3	76.3	92.0	86.2	93.0
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	93.5	----	----	63.5	----
13C8-PFOA	----	0.0002	%	104	----	----	106	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH111_0.5	D05_20211220	BUR_BH111_2.0	BUR_BH111_5.0	BUR_BH110_0.2
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-006	ES2146990-007	ES2146990-008	ES2146990-009	ES2146990-010
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	25.2	28.4	14.5	9.5	14.5
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	6	8	<5	11	<5
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg	17	18	4	10	9
Copper	7440-50-8	5	mg/kg	59	23	11	30	34
Lead	7439-92-1	5	mg/kg	118	54	16	18	131
Nickel	7440-02-0	2	mg/kg	7	5	<2	5	9
Zinc	7440-66-6	5	mg/kg	108	30	<5	28	99
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	0.3	<0.1	<0.1	<0.1	0.1
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	0.3
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Total Chlordane (sum)	----	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH111_0.5	D05_20211220	BUR_BH111_2.0	BUR_BH111_5.0	BUR_BH110_0.2
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-006	ES2146990-007	ES2146990-008	ES2146990-009	ES2146990-010
				Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued								
4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
EP068B: Organophosphorus Pesticides (OP)								
Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
EP074A: Monocyclic Aromatic Hydrocarbons								
Styrene	100-42-5	0.5	mg/kg	----	----	<0.5	----	<0.5
Isopropylbenzene	98-82-8	0.5	mg/kg	----	----	<0.5	----	<0.5
n-Propylbenzene	103-65-1	0.5	mg/kg	----	----	<0.5	----	<0.5
1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	----	----	<0.5	----	<0.5
sec-Butylbenzene	135-98-8	0.5	mg/kg	----	----	<0.5	----	<0.5
1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	----	----	<0.5	----	<0.5
tert-Butylbenzene	98-06-6	0.5	mg/kg	----	----	<0.5	----	<0.5
p-Isopropyltoluene	99-87-6	0.5	mg/kg	----	----	<0.5	----	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH111_0.5	D05_20211220	BUR_BH111_2.0	BUR_BH111_5.0	BUR_BH110_0.2
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-006	ES2146990-007	ES2146990-008	ES2146990-009	ES2146990-010
				Result	Result	Result	Result	Result
EP074A: Monocyclic Aromatic Hydrocarbons - Continued								
n-Butylbenzene	104-51-8	0.5	mg/kg	----	----	<0.5	----	<0.5
EP074B: Oxygenated Compounds								
Vinyl Acetate	108-05-4	5	mg/kg	----	----	<5	----	<5
2-Butanone (MEK)	78-93-3	5	mg/kg	----	----	<5	----	<5
4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	----	----	<5	----	<5
2-Hexanone (MBK)	591-78-6	5	mg/kg	----	----	<5	----	<5
EP074C: Sulfonated Compounds								
Carbon disulfide	75-15-0	0.5	mg/kg	----	----	<0.5	----	<0.5
EP074D: Fumigants								
2.2-Dichloropropane	594-20-7	0.5	mg/kg	----	----	<0.5	----	<0.5
1.2-Dichloropropane	78-87-5	0.5	mg/kg	----	----	<0.5	----	<0.5
cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	----	----	<0.5	----	<0.5
trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	----	----	<0.5	----	<0.5
1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	----	----	<0.5	----	<0.5
EP074E: Halogenated Aliphatic Compounds								
Dichlorodifluoromethane	75-71-8	5	mg/kg	----	----	<5	----	<5
Chloromethane	74-87-3	5	mg/kg	----	----	<5	----	<5
Vinyl chloride	75-01-4	5	mg/kg	----	----	<5	----	<5
Bromomethane	74-83-9	5	mg/kg	----	----	<5	----	<5
Chloroethane	75-00-3	5	mg/kg	----	----	<5	----	<5
Trichlorofluoromethane	75-69-4	5	mg/kg	----	----	<5	----	<5
1.1-Dichloroethene	75-35-4	0.5	mg/kg	----	----	<0.5	----	<0.5
Iodomethane	74-88-4	0.5	mg/kg	----	----	<0.5	----	<0.5
trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	----	----	<0.5	----	<0.5
1.1-Dichloroethane	75-34-3	0.5	mg/kg	----	----	<0.5	----	<0.5
cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	----	----	<0.5	----	<0.5
1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	----	----	<0.5	----	<0.5
1.1-Dichloropropylene	563-58-6	0.5	mg/kg	----	----	<0.5	----	<0.5
Carbon Tetrachloride	56-23-5	0.5	mg/kg	----	----	<0.5	----	<0.5
1.2-Dichloroethane	107-06-2	0.5	mg/kg	----	----	<0.5	----	<0.5
Trichloroethene	79-01-6	0.5	mg/kg	----	----	<0.5	----	<0.5
Dibromomethane	74-95-3	0.5	mg/kg	----	----	<0.5	----	<0.5
1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	----	----	<0.5	----	<0.5
1.3-Dichloropropane	142-28-9	0.5	mg/kg	----	----	<0.5	----	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BUR_BH111_0.5	D05_20211220	BUR_BH111_2.0	BUR_BH111_5.0	BUR_BH110_0.2
				Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
Compound	CAS Number	LOR	Unit		ES2146990-006	ES2146990-007	ES2146990-008	ES2146990-009	ES2146990-010
					Result	Result	Result	Result	Result
EP074E: Halogenated Aliphatic Compounds - Continued									
Tetrachloroethene	127-18-4	0.5	mg/kg		----	----	<0.5	----	<0.5
1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg		----	----	<0.5	----	<0.5
trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg		----	----	<0.5	----	<0.5
cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg		----	----	<0.5	----	<0.5
1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg		----	----	<0.5	----	<0.5
1.2.3-Trichloropropane	96-18-4	0.5	mg/kg		----	----	<0.5	----	<0.5
Pentachloroethane	76-01-7	0.5	mg/kg		----	----	<0.5	----	<0.5
1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg		----	----	<0.5	----	<0.5
Hexachlorobutadiene	87-68-3	0.5	mg/kg		----	----	<0.5	----	<0.5
EP074F: Halogenated Aromatic Compounds									
Chlorobenzene	108-90-7	0.5	mg/kg		----	----	<0.5	----	<0.5
Bromobenzene	108-86-1	0.5	mg/kg		----	----	<0.5	----	<0.5
2-Chlorotoluene	95-49-8	0.5	mg/kg		----	----	<0.5	----	<0.5
4-Chlorotoluene	106-43-4	0.5	mg/kg		----	----	<0.5	----	<0.5
1.3-Dichlorobenzene	541-73-1	0.5	mg/kg		----	----	<0.5	----	<0.5
1.4-Dichlorobenzene	106-46-7	0.5	mg/kg		----	----	<0.5	----	<0.5
1.2-Dichlorobenzene	95-50-1	0.5	mg/kg		----	----	<0.5	----	<0.5
1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg		----	----	<0.5	----	<0.5
1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg		----	----	<0.5	----	<0.5
EP074G: Trihalomethanes									
Chloroform	67-66-3	0.5	mg/kg		----	----	<0.5	----	<0.5
Bromodichloromethane	75-27-4	0.5	mg/kg		----	----	<0.5	----	<0.5
Dibromochloromethane	124-48-1	0.5	mg/kg		----	----	<0.5	----	<0.5
Bromoform	75-25-2	0.5	mg/kg		----	----	<0.5	----	<0.5
EP074H: Naphthalene									
Naphthalene	91-20-3	1	mg/kg		----	----	<1	----	<1
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	120-12-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg		**0.8**	<0.5	<0.5	<0.5	**0.8**

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH111_0.5	D05_20211220	BUR_BH111_2.0	BUR_BH111_5.0	BUR_BH110_0.2
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-006	ES2146990-007	ES2146990-008	ES2146990-009	ES2146990-010
				Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued								
Pyrene	129-00-0	0.5	mg/kg	**0.8**	<0.5	<0.5	<0.5	**1.0**
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	**0.6**
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	**0.6**
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	**0.8**
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	**0.8**
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	**0.5**
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	**1.6**	<0.5	<0.5	<0.5	**5.1**
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	**1.0**
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	**0.6**	**0.6**	**0.6**	**0.6**	**1.2**
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	**1.2**	**1.2**	**1.2**	**1.2**	**1.6**
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	10	mg/kg	<10	<10	<10	<10	<10
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
C15 - C28 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
C29 - C36 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	<50	<50	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	<10	<10	<10
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	<10	<10	<10	<10
>C10 - C16 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
>C16 - C34 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
>C34 - C40 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	<50	<50	<50
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	<50	<50	<50	<50
EP080: BTEXN								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH111_0.5	D05_20211220	BUR_BH111_2.0	BUR_BH111_5.0	BUR_BH110_0.2
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-006	ES2146990-007	ES2146990-008	ES2146990-009	ES2146990-010
				Result	Result	Result	Result	Result
EP080: BTEXN - Continued								
^ Sum of BTEX	----	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
^ Total Xylenes	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	91-20-3	1	mg/kg	<1	<1	<1	<1	<1
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	5.0	µg/kg	<5.0	<5.0	----	<5.0	<5.0
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	5.0	µg/kg	<5.0	<5.0	----	<5.0	<5.0
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	5.0	µg/kg	<5.0	<5.0	----	<5.0	<5.0
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	5.0	µg/kg	<5.0	<5.0	----	<5.0	<5.0
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	5.0	µg/kg	<5.0	<5.0	----	<5.0	<5.0
Perfluorodecane sulfonic acid (PFDS)	335-77-3	5.0	µg/kg	<5.0	<5.0	----	<5.0	<5.0
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	5	µg/kg	<5	<5	----	<5	<5
Perfluoropentanoic acid (PFPeA)	2706-90-3	5.0	µg/kg	<5.0	<5.0	----	<5.0	<5.0
Perfluorohexanoic acid (PFHxA)	307-24-4	5.0	µg/kg	<5.0	<5.0	----	<5.0	<5.0
Perfluoroheptanoic acid (PFHpA)	375-85-9	5.0	µg/kg	<5.0	<5.0	----	<5.0	<5.0
Perfluorooctanoic acid (PFOA)	335-67-1	5.0	µg/kg	<5.0	<5.0	----	<5.0	<5.0
Perfluorononanoic acid (PFNA)	375-95-1	5.0	µg/kg	<5.0	<5.0	----	<5.0	<5.0
Perfluorodecanoic acid (PFDA)	335-76-2	5.0	µg/kg	<5.0	<5.0	----	<5.0	<5.0
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	5.0	µg/kg	<5.0	<5.0	----	<5.0	<5.0
Perfluorododecanoic acid (PFDoDA)	307-55-1	5.0	µg/kg	<5.0	<5.0	----	<5.0	<5.0
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	5.0	µg/kg	<5.0	<5.0	----	<5.0	<5.0
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	5.0	µg/kg	<5.0	<5.0	----	<5.0	<5.0
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	5.0	µg/kg	<5.0	<5.0	----	<5.0	<5.0

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH111_0.5	D05_20211220	BUR_BH111_2.0	BUR_BH111_5.0	BUR_BH110_0.2
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-006	ES2146990-007	ES2146990-008	ES2146990-009	ES2146990-010
				Result	Result	Result	Result	Result
EP231C: Perfluoroalkyl Sulfonamides - Continued								
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	5.0	µg/kg	<5.0	<5.0	----	<5.0	<5.0
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	5.0	µg/kg	<5.0	<5.0	----	<5.0	<5.0
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	5.0	µg/kg	<5.0	<5.0	----	<5.0	<5.0
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	5.0	µg/kg	<5.0	<5.0	----	<5.0	<5.0
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	5.0	µg/kg	<5.0	<5.0	----	<5.0	<5.0
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	5.0	µg/kg	<5.0	<5.0	----	<5.0	<5.0
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	5.0	µg/kg	<5.0	<5.0	----	<5.0	<5.0
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	5.0	µg/kg	<5.0	<5.0	----	<5.0	<5.0
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	5.0	µg/kg	<5.0	<5.0	----	<5.0	<5.0
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	5.0	µg/kg	<5.0	<5.0	----	<5.0	<5.0
EP231P: PFAS Sums								
Sum of PFAS	----	5.0	µg/kg	<5.0	<5.0	----	<5.0	<5.0
Sum of PFHxS and PFOS	355-46-4/1763-23-1	5.0	µg/kg	<5.0	<5.0	----	<5.0	<5.0
Sum of PFAS (WA DER List)	----	5.0	µg/kg	<5.0	<5.0	----	<5.0	<5.0
EP066S: PCB Surrogate								
Decachlorobiphenyl	2051-24-3	0.1	%	**86.2**	**80.4**	**113**	**103**	**106**
EP068S: Organochlorine Pesticide Surrogate								
Dibromo-DDE	21655-73-2	0.05	%	**88.6**	**100**	**101**	**85.7**	**105**
EP068T: Organophosphorus Pesticide Surrogate								
DEF	78-48-8	0.05	%	**88.3**	**95.8**	**91.1**	**87.3**	**103**
EP074S: VOC Surrogates								

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH111_0.5	D05_20211220	BUR_BH111_2.0	BUR_BH111_5.0	BUR_BH110_0.2
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-006	ES2146990-007	ES2146990-008	ES2146990-009	ES2146990-010
				Result	Result	Result	Result	Result
EP074S: VOC Surrogates - Continued								
1.2-Dichloroethane-D4	17060-07-0	0.5	%	----	----	85.9	----	95.4
Toluene-D8	2037-26-5	0.5	%	----	----	97.8	----	97.4
4-Bromofluorobenzene	460-00-4	0.5	%	----	----	93.5	----	96.9
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.5	%	82.5	82.1	81.4	81.9	81.2
2-Chlorophenol-D4	93951-73-6	0.5	%	81.6	85.1	83.1	82.3	79.9
2.4.6-Tribromophenol	118-79-6	0.5	%	71.0	74.3	71.0	68.8	70.0
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.5	%	91.4	103	93.3	91.2	90.9
Anthracene-d10	1719-06-8	0.5	%	103	110	106	107	103
4-Terphenyl-d14	1718-51-0	0.5	%	100	108	86.5	111	100
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	93.4	86.0	83.6	96.8	92.3
Toluene-D8	2037-26-5	0.2	%	99.1	86.5	88.7	102	88.5
4-Bromofluorobenzene	460-00-4	0.2	%	79.2	70.8	86.3	82.6	89.2
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	98.5	78.5	----	100	106
13C8-PFOA	----	0.0002	%	99.0	103	----	104	99.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH110_0.5	BUR_BH110_1.0	BUR_BH110_5.0	BUR_BH113_0.2	BUR_BH113_1.0
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-011	ES2146990-012	ES2146990-013	ES2146990-014	ES2146990-015
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	30.5	21.9	7.0	19.4	19.6
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Asbestos Detected	1332-21-4	0.1	g/kg	----	----	----	No	----
Asbestos (Trace)	1332-21-4	5	Fibres	----	----	----	No	----
Asbestos Type	1332-21-4	-	--	----	----	----	-	----
Synthetic Mineral Fibre	----	0.1	g/kg	----	----	----	No	----
Organic Fibre	----	0.1	g/kg	----	----	----	No	----
Sample weight (dry)	----	0.01	g	----	----	----	323	----
APPROVED IDENTIFIER:	----	-	--	----	----	----	A. SMYLIE	----
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	12	6	9	6	5
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg	38	12	16	13	8
Copper	7440-50-8	5	mg/kg	10	8	44	9	15
Lead	7439-92-1	5	mg/kg	34	18	24	27	19
Nickel	7440-02-0	2	mg/kg	8	<2	56	<2	<2
Zinc	7440-66-6	5	mg/kg	7	<5	273	22	10
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Total Chlordane (sum)	----	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BUR_BH110_0.5	BUR_BH110_1.0	BUR_BH110_5.0	BUR_BH113_0.2	BUR_BH113_1.0
				Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
Compound	CAS Number	LOR	Unit		ES2146990-011	ES2146990-012	ES2146990-013	ES2146990-014	ES2146990-015
					Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued									
Dieldrin	60-57-1	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDE	72-55-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	72-20-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
beta-Endosulfan	33213-65-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
^ **Endosulfan (sum)**	115-29-7	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDD	72-54-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDT	50-29-3	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Endrin ketone	53494-70-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Methoxychlor	72-43-5	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
^ **Sum of Aldrin + Dieldrin**	309-00-2/60-57-1	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
^ **Sum of DDD + DDE + DDT**	72-54-8/72-55-9/50-2	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Demeton-S-methyl	919-86-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Monocrotophos	6923-22-4	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Dimethoate	60-51-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Diazinon	333-41-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Parathion-methyl	298-00-0	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	121-75-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Fenthion	55-38-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos	2921-88-2	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Parathion	56-38-2	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Pirimphos-ethyl	23505-41-1	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Chlorfenvinphos	470-90-6	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Bromophos-ethyl	4824-78-6	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Fenamiphos	22224-92-6	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Prothiofos	34643-46-4	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Ethion	563-12-2	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Carbophenothion	786-19-6	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Azinphos Methyl	86-50-0	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
EP074A: Monocyclic Aromatic Hydrocarbons									

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH110_0.5	BUR_BH110_1.0	BUR_BH110_5.0	BUR_BH113_0.2	BUR_BH113_1.0
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-011	ES2146990-012	ES2146990-013	ES2146990-014	ES2146990-015
				Result	Result	Result	Result	Result
EP074A: Monocyclic Aromatic Hydrocarbons - Continued								
Styrene	100-42-5	0.5	mg/kg	----	<0.5	----	<0.5	----
Isopropylbenzene	98-82-8	0.5	mg/kg	----	<0.5	----	<0.5	----
n-Propylbenzene	103-65-1	0.5	mg/kg	----	<0.5	----	<0.5	----
1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	----	<0.5	----	<0.5	----
sec-Butylbenzene	135-98-8	0.5	mg/kg	----	<0.5	----	<0.5	----
1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	----	<0.5	----	<0.5	----
tert-Butylbenzene	98-06-6	0.5	mg/kg	----	<0.5	----	<0.5	----
p-Isopropyltoluene	99-87-6	0.5	mg/kg	----	<0.5	----	<0.5	----
n-Butylbenzene	104-51-8	0.5	mg/kg	----	<0.5	----	<0.5	----
EP074B: Oxygenated Compounds								
Vinyl Acetate	108-05-4	5	mg/kg	----	<5	----	<5	----
2-Butanone (MEK)	78-93-3	5	mg/kg	----	<5	----	<5	----
4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	----	<5	----	<5	----
2-Hexanone (MBK)	591-78-6	5	mg/kg	----	<5	----	<5	----
EP074C: Sulfonated Compounds								
Carbon disulfide	75-15-0	0.5	mg/kg	----	<0.5	----	<0.5	----
EP074D: Fumigants								
2.2-Dichloropropane	594-20-7	0.5	mg/kg	----	<0.5	----	<0.5	----
1.2-Dichloropropane	78-87-5	0.5	mg/kg	----	<0.5	----	<0.5	----
cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	----	<0.5	----	<0.5	----
trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	----	<0.5	----	<0.5	----
1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	----	<0.5	----	<0.5	----
EP074E: Halogenated Aliphatic Compounds								
Dichlorodifluoromethane	75-71-8	5	mg/kg	----	<5	----	<5	----
Chloromethane	74-87-3	5	mg/kg	----	<5	----	<5	----
Vinyl chloride	75-01-4	5	mg/kg	----	<5	----	<5	----
Bromomethane	74-83-9	5	mg/kg	----	<5	----	<5	----
Chloroethane	75-00-3	5	mg/kg	----	<5	----	<5	----
Trichlorofluoromethane	75-69-4	5	mg/kg	----	<5	----	<5	----
1.1-Dichloroethene	75-35-4	0.5	mg/kg	----	<0.5	----	<0.5	----
Iodomethane	74-88-4	0.5	mg/kg	----	<0.5	----	<0.5	----
trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	----	<0.5	----	<0.5	----
1.1-Dichloroethane	75-34-3	0.5	mg/kg	----	<0.5	----	<0.5	----
cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	----	<0.5	----	<0.5	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH110_0.5	BUR_BH110_1.0	BUR_BH110_5.0	BUR_BH113_0.2	BUR_BH113_1.0
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-011	ES2146990-012	ES2146990-013	ES2146990-014	ES2146990-015
				Result	Result	Result	Result	Result
EP074E: Halogenated Aliphatic Compounds - Continued								
1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	----	<0.5	----	<0.5	----
1.1-Dichloropropylene	563-58-6	0.5	mg/kg	----	<0.5	----	<0.5	----
Carbon Tetrachloride	56-23-5	0.5	mg/kg	----	<0.5	----	<0.5	----
1.2-Dichloroethane	107-06-2	0.5	mg/kg	----	<0.5	----	<0.5	----
Trichloroethene	79-01-6	0.5	mg/kg	----	<0.5	----	<0.5	----
Dibromomethane	74-95-3	0.5	mg/kg	----	<0.5	----	<0.5	----
1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	----	<0.5	----	<0.5	----
1.3-Dichloropropane	142-28-9	0.5	mg/kg	----	<0.5	----	<0.5	----
Tetrachloroethene	127-18-4	0.5	mg/kg	----	<0.5	----	<0.5	----
1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	----	<0.5	----	<0.5	----
trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	----	<0.5	----	<0.5	----
cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	----	<0.5	----	<0.5	----
1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	----	<0.5	----	<0.5	----
1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	----	<0.5	----	<0.5	----
Pentachloroethane	76-01-7	0.5	mg/kg	----	<0.5	----	<0.5	----
1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	----	<0.5	----	<0.5	----
Hexachlorobutadiene	87-68-3	0.5	mg/kg	----	<0.5	----	<0.5	----
EP074F: Halogenated Aromatic Compounds								
Chlorobenzene	108-90-7	0.5	mg/kg	----	<0.5	----	<0.5	----
Bromobenzene	108-86-1	0.5	mg/kg	----	<0.5	----	<0.5	----
2-Chlorotoluene	95-49-8	0.5	mg/kg	----	<0.5	----	<0.5	----
4-Chlorotoluene	106-43-4	0.5	mg/kg	----	<0.5	----	<0.5	----
1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	----	<0.5	----	<0.5	----
1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	----	<0.5	----	<0.5	----
1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	----	<0.5	----	<0.5	----
1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	----	<0.5	----	<0.5	----
1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	----	<0.5	----	<0.5	----
EP074G: Trihalomethanes								
Chloroform	67-66-3	0.5	mg/kg	----	<0.5	----	<0.5	----
Bromodichloromethane	75-27-4	0.5	mg/kg	----	<0.5	----	<0.5	----
Dibromochloromethane	124-48-1	0.5	mg/kg	----	<0.5	----	<0.5	----
Bromoform	75-25-2	0.5	mg/kg	----	<0.5	----	<0.5	----
EP074H: Naphthalene								
Naphthalene	91-20-3	1	mg/kg	----	<1	----	<1	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH110_0.5	BUR_BH110_1.0	BUR_BH110_5.0	BUR_BH113_0.2	BUR_BH113_1.0
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-011	ES2146990-012	ES2146990-013	ES2146990-014	ES2146990-015
				Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	**1.2**	**1.2**	**1.2**	**1.2**	**1.2**
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	10	mg/kg	<10	<10	<10	<10	<10
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
C15 - C28 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
C29 - C36 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	<50	<50	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	<10	<10	<10
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	<10	<10	<10	<10
>C10 - C16 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
>C16 - C34 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
>C34 - C40 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	<50	<50	<50

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH110_0.5	BUR_BH110_1.0	BUR_BH110_5.0	BUR_BH113_0.2	BUR_BH113_1.0
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-011	ES2146990-012	ES2146990-013	ES2146990-014	ES2146990-015
				Result	Result	Result	Result	Result
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued								
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	<50	<50	<50	<50
EP080: BTEXN								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of BTEX	----	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
^ Total Xylenes	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	91-20-3	1	mg/kg	<1	<1	<1	<1	<1
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	5.0	µg/kg	----	----	<5.0	<5.0	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	5.0	µg/kg	----	----	<5.0	<5.0	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	5.0	µg/kg	----	----	<5.0	<5.0	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	5.0	µg/kg	----	----	<5.0	<5.0	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	5.0	µg/kg	----	----	<5.0	<5.0	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	5.0	µg/kg	----	----	<5.0	<5.0	----
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	5	µg/kg	----	----	<5	<5	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	5.0	µg/kg	----	----	<5.0	<5.0	----
Perfluorohexanoic acid (PFHxA)	307-24-4	5.0	µg/kg	----	----	<5.0	<5.0	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	5.0	µg/kg	----	----	<5.0	<5.0	----
Perfluorooctanoic acid (PFOA)	335-67-1	5.0	µg/kg	----	----	<5.0	<5.0	----
Perfluorononanoic acid (PFNA)	375-95-1	5.0	µg/kg	----	----	<5.0	<5.0	----
Perfluorodecanoic acid (PFDA)	335-76-2	5.0	µg/kg	----	----	<5.0	<5.0	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	5.0	µg/kg	----	----	<5.0	<5.0	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH110_0.5	BUR_BH110_1.0	BUR_BH110_5.0	BUR_BH113_0.2	BUR_BH113_1.0
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-011	ES2146990-012	ES2146990-013	ES2146990-014	ES2146990-015
				Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorododecanoic acid (PFDoDA)	307-55-1	5.0	µg/kg	----	----	<5.0	<5.0	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	5.0	µg/kg	----	----	<5.0	<5.0	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	5.0	µg/kg	----	----	<5.0	<5.0	----
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	5.0	µg/kg	----	----	<5.0	<5.0	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	5.0	µg/kg	----	----	<5.0	<5.0	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	5.0	µg/kg	----	----	<5.0	<5.0	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	5.0	µg/kg	----	----	<5.0	<5.0	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	5.0	µg/kg	----	----	<5.0	<5.0	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	5.0	µg/kg	----	----	<5.0	<5.0	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	5.0	µg/kg	----	----	<5.0	<5.0	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	5.0	µg/kg	----	----	<5.0	<5.0	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	5.0	µg/kg	----	----	<5.0	<5.0	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	5.0	µg/kg	----	----	<5.0	<5.0	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	5.0	µg/kg	----	----	<5.0	<5.0	----
EP231P: PFAS Sums								
Sum of PFAS	----	5.0	µg/kg	----	----	<5.0	<5.0	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	5.0	µg/kg	----	----	<5.0	<5.0	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH110_0.5	BUR_BH110_1.0	BUR_BH110_5.0	BUR_BH113_0.2	BUR_BH113_1.0
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-011	ES2146990-012	ES2146990-013	ES2146990-014	ES2146990-015
				Result	Result	Result	Result	Result
EP231P: PFAS Sums - Continued								
Sum of PFAS (WA DER List)	----	5.0	µg/kg	----	----	<5.0	<5.0	----
EP066S: PCB Surrogate								
Decachlorobiphenyl	2051-24-3	0.1	%	94.0	117	108	112	93.6
EP068S: Organochlorine Pesticide Surrogate								
Dibromo-DDE	21655-73-2	0.05	%	113	104	114	122	89.6
EP068T: Organophosphorus Pesticide Surrogate								
DEF	78-48-8	0.05	%	84.5	84.8	92.6	81.1	60.6
EP074S: VOC Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.5	%	----	97.8	----	89.5	----
Toluene-D8	2037-26-5	0.5	%	----	90.7	----	89.4	----
4-Bromofluorobenzene	460-00-4	0.5	%	----	90.6	----	90.9	----
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.5	%	81.1	87.0	85.8	84.6	82.3
2-Chlorophenol-D4	93951-73-6	0.5	%	80.8	88.2	89.5	84.7	81.9
2.4.6-Tribromophenol	118-79-6	0.5	%	65.2	58.5	64.7	67.5	60.8
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.5	%	86.1	85.0	80.4	93.8	90.5
Anthracene-d10	1719-06-8	0.5	%	109	101	103	109	109
4-Terphenyl-d14	1718-51-0	0.5	%	98.6	88.2	92.3	109	93.9
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	88.6	95.0	104	87.2	90.6
Toluene-D8	2037-26-5	0.2	%	95.7	82.5	108	81.2	95.4
4-Bromofluorobenzene	460-00-4	0.2	%	76.0	84.2	88.6	84.2	77.2
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	----	----	99.0	98.0	----
13C8-PFOA	----	0.0002	%	----	----	102	103	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH113_2.0	BUR_BH113_5.0	D06__2021220	BUR_BH114_0.2	BUR_BH114_0.5
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-016	ES2146990-017	ES2146990-018	ES2146990-019	ES2146990-020
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	7.0	25.8	<1.0	15.8	15.5
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Asbestos Detected	1332-21-4	0.1	g/kg	----	----	----	No	----
Asbestos (Trace)	1332-21-4	5	Fibres	----	----	----	No	----
Asbestos Type	1332-21-4	-	--	----	----	----	-	----
Synthetic Mineral Fibre	----	0.1	g/kg	----	----	----	No	----
Organic Fibre	----	0.1	g/kg	----	----	----	No	----
Sample weight (dry)	----	0.01	g	----	----	----	147	----
APPROVED IDENTIFIER:	----	-	--	----	----	----	A. SMYLIE	----
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	11	14	<5	<5	<5
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg	9	13	6	11	8
Copper	7440-50-8	5	mg/kg	35	56	22	8	10
Lead	7439-92-1	5	mg/kg	18	33	14	19	22
Nickel	7440-02-0	2	mg/kg	7	36	3	<2	<2
Zinc	7440-66-6	5	mg/kg	41	221	20	15	<5
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Total Chlordane (sum)	----	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH113_2.0	BUR_BH113_5.0	D06__2021220	BUR_BH114_0.2	BUR_BH114_0.5
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-016	ES2146990-017	ES2146990-018	ES2146990-019	ES2146990-020
				Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued								
Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
EP068B: Organophosphorus Pesticides (OP)								
Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
EP074A: Monocyclic Aromatic Hydrocarbons								

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH113_2.0	BUR_BH113_5.0	D06__2021220	BUR_BH114_0.2	BUR_BH114_0.5
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-016	ES2146990-017	ES2146990-018	ES2146990-019	ES2146990-020
				Result	Result	Result	Result	Result
EP074A: Monocyclic Aromatic Hydrocarbons - Continued								
Styrene	100-42-5	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Isopropylbenzene	98-82-8	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
n-Propylbenzene	103-65-1	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
sec-Butylbenzene	135-98-8	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
tert-Butylbenzene	98-06-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
p-Isopropyltoluene	99-87-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
n-Butylbenzene	104-51-8	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
EP074B: Oxygenated Compounds								
Vinyl Acetate	108-05-4	5	mg/kg	<5	----	<5	----	<5
2-Butanone (MEK)	78-93-3	5	mg/kg	<5	----	<5	----	<5
4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	<5	----	<5	----	<5
2-Hexanone (MBK)	591-78-6	5	mg/kg	<5	----	<5	----	<5
EP074C: Sulfonated Compounds								
Carbon disulfide	75-15-0	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
EP074D: Fumigants								
2.2-Dichloropropane	594-20-7	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.2-Dichloropropane	78-87-5	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
EP074E: Halogenated Aliphatic Compounds								
Dichlorodifluoromethane	75-71-8	5	mg/kg	<5	----	<5	----	<5
Chloromethane	74-87-3	5	mg/kg	<5	----	<5	----	<5
Vinyl chloride	75-01-4	5	mg/kg	<5	----	<5	----	<5
Bromomethane	74-83-9	5	mg/kg	<5	----	<5	----	<5
Chloroethane	75-00-3	5	mg/kg	<5	----	<5	----	<5
Trichlorofluoromethane	75-69-4	5	mg/kg	<5	----	<5	----	<5
1.1-Dichloroethene	75-35-4	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Iodomethane	74-88-4	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.1-Dichloroethane	75-34-3	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	<0.5	----	<0.5	----	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH113_2.0	BUR_BH113_5.0	D06__2021220	BUR_BH114_0.2	BUR_BH114_0.5
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-016	ES2146990-017	ES2146990-018	ES2146990-019	ES2146990-020
				Result	Result	Result	Result	Result
EP074E: Halogenated Aliphatic Compounds - Continued								
1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.1-Dichloropropylene	563-58-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Carbon Tetrachloride	56-23-5	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.2-Dichloroethane	107-06-2	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Trichloroethene	79-01-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Dibromomethane	74-95-3	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.3-Dichloropropane	142-28-9	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Tetrachloroethene	127-18-4	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Pentachloroethane	76-01-7	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
EP074F: Halogenated Aromatic Compounds								
Chlorobenzene	108-90-7	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Bromobenzene	108-86-1	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
2-Chlorotoluene	95-49-8	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
4-Chlorotoluene	106-43-4	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
EP074G: Trihalomethanes								
Chloroform	67-66-3	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Bromodichloromethane	75-27-4	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Dibromochloromethane	124-48-1	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Bromoform	75-25-2	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
EP074H: Naphthalene								
Naphthalene	91-20-3	1	mg/kg	<1	----	<1	----	<1

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH113_2.0	BUR_BH113_5.0	D06__2021220	BUR_BH114_0.2	BUR_BH114_0.5
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-016	ES2146990-017	ES2146990-018	ES2146990-019	ES2146990-020
				Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	**1.2**	**1.2**	**1.2**	**1.2**	**1.2**
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	10	mg/kg	<10	<10	<10	<10	<10
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
C15 - C28 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
C29 - C36 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	<50	<50	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	<10	<10	<10
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	<10	<10	<10	<10
>C10 - C16 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
>C16 - C34 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
>C34 - C40 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	<50	<50	<50

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH113_2.0	BUR_BH113_5.0	D06__2021220	BUR_BH114_0.2	BUR_BH114_0.5
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-016	ES2146990-017	ES2146990-018	ES2146990-019	ES2146990-020
				Result	Result	Result	Result	Result
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued								
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	<50	<50	<50	<50
EP080: BTEXN								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of BTEX	----	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
^ Total Xylenes	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	91-20-3	1	mg/kg	<1	<1	<1	<1	<1
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	5.0	µg/kg	----	<5.0	----	<5.0	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	5.0	µg/kg	----	<5.0	----	<5.0	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	5.0	µg/kg	----	<5.0	----	<5.0	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	5.0	µg/kg	----	<5.0	----	<5.0	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	5.0	µg/kg	----	<5.0	----	<5.0	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	5.0	µg/kg	----	<5.0	----	<5.0	----
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	5	µg/kg	----	<5	----	<5	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	5.0	µg/kg	----	<5.0	----	<5.0	----
Perfluorohexanoic acid (PFHxA)	307-24-4	5.0	µg/kg	----	<5.0	----	<5.0	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	5.0	µg/kg	----	<5.0	----	<5.0	----
Perfluorooctanoic acid (PFOA)	335-67-1	5.0	µg/kg	----	<5.0	----	<5.0	----
Perfluorononanoic acid (PFNA)	375-95-1	5.0	µg/kg	----	<5.0	----	<5.0	----
Perfluorodecanoic acid (PFDA)	335-76-2	5.0	µg/kg	----	<5.0	----	<5.0	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	5.0	µg/kg	----	<5.0	----	<5.0	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH113_2.0	BUR_BH113_5.0	D06__2021220	BUR_BH114_0.2	BUR_BH114_0.5
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-016	ES2146990-017	ES2146990-018	ES2146990-019	ES2146990-020
				Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorododecanoic acid (PFDoDA)	307-55-1	5.0	µg/kg	----	<5.0	----	<5.0	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	5.0	µg/kg	----	<5.0	----	<5.0	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	5.0	µg/kg	----	<5.0	----	<5.0	----
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	5.0	µg/kg	----	<5.0	----	<5.0	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	5.0	µg/kg	----	<5.0	----	<5.0	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	5.0	µg/kg	----	<5.0	----	<5.0	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	5.0	µg/kg	----	<5.0	----	<5.0	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	5.0	µg/kg	----	<5.0	----	<5.0	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	5.0	µg/kg	----	<5.0	----	<5.0	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	5.0	µg/kg	----	<5.0	----	<5.0	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	5.0	µg/kg	----	<5.0	----	<5.0	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	5.0	µg/kg	----	<5.0	----	<5.0	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	5.0	µg/kg	----	<5.0	----	<5.0	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	5.0	µg/kg	----	<5.0	----	<5.0	----
EP231P: PFAS Sums								
Sum of PFAS	----	5.0	µg/kg	----	<5.0	----	<5.0	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	5.0	µg/kg	----	<5.0	----	<5.0	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH113_2.0	BUR_BH113_5.0	D06__2021220	BUR_BH114_0.2	BUR_BH114_0.5
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-016	ES2146990-017	ES2146990-018	ES2146990-019	ES2146990-020
				Result	Result	Result	Result	Result
EP231P: PFAS Sums - Continued								
Sum of PFAS (WA DER List)	----	5.0	µg/kg	----	<5.0	----	<5.0	----
EP066S: PCB Surrogate								
Decachlorobiphenyl	2051-24-3	0.1	%	110	93.1	101	108	119
EP068S: Organochlorine Pesticide Surrogate								
Dibromo-DDE	21655-73-2	0.05	%	108	123	99.2	111	110
EP068T: Organophosphorus Pesticide Surrogate								
DEF	78-48-8	0.05	%	67.0	98.5	68.3	75.0	76.5
EP074S: VOC Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.5	%	85.6	----	95.2	----	89.9
Toluene-D8	2037-26-5	0.5	%	95.8	----	95.4	----	96.0
4-Bromofluorobenzene	460-00-4	0.5	%	91.0	----	95.6	----	93.8
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.5	%	84.5	85.1	82.6	80.2	85.4
2-Chlorophenol-D4	93951-73-6	0.5	%	83.0	80.7	82.9	83.1	80.6
2.4.6-Tribromophenol	118-79-6	0.5	%	51.1	59.8	59.3	56.4	54.3
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.5	%	90.6	104	95.4	93.3	89.8
Anthracene-d10	1719-06-8	0.5	%	102	107	108	110	106
4-Terphenyl-d14	1718-51-0	0.5	%	90.8	96.4	99.0	98.2	98.8
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	83.4	97.6	92.8	98.7	87.7
Toluene-D8	2037-26-5	0.2	%	87.0	99.8	86.6	99.7	87.2
4-Bromofluorobenzene	460-00-4	0.2	%	84.1	81.6	88.3	82.9	85.9
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	----	104	----	95.0	----
13C8-PFOA	----	0.0002	%	----	108	----	106	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH114_5.0	BUR_BH114_10.0	BUR_BH114_15.0	TS 22	BUR_BH115_0.2
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-021	ES2146990-022	ES2146990-023	ES2146990-026	ES2146990-027
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	5.9	11.2	6.3	----	12.0
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Asbestos Detected	1332-21-4	0.1	g/kg	----	----	----	----	No
Asbestos (Trace)	1332-21-4	5	Fibres	----	----	----	----	No
Asbestos Type	1332-21-4	-	--	----	----	----	----	-
Synthetic Mineral Fibre	----	0.1	g/kg	----	----	----	----	No
Organic Fibre	----	0.1	g/kg	----	----	----	----	No
Sample weight (dry)	----	0.01	g	----	----	----	----	432
APPROVED IDENTIFIER:	----	-	--	----	----	----	----	A. SMYLIE
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	11	9	<5	----	9
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	----	<1
Chromium	7440-47-3	2	mg/kg	9	10	9	----	42
Copper	7440-50-8	5	mg/kg	43	13	25	----	76
Lead	7439-92-1	5	mg/kg	26	16	20	----	263
Nickel	7440-02-0	2	mg/kg	44	13	19	----	59
Zinc	7440-66-6	5	mg/kg	190	58	79	----	333
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	----	0.1
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	<0.1	----	<0.1
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
^ Total Chlordane (sum)	----	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH114_5.0	BUR_BH114_10.0	BUR_BH114_15.0	TS 22	BUR_BH115_0.2
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-021	ES2146990-022	ES2146990-023	ES2146990-026	ES2146990-027
				Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued								
Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
^ Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	<0.2	----	<0.2
Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	<0.2	----	<0.2
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
EP068B: Organophosphorus Pesticides (OP)								
Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	<0.2	----	<0.2
Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	<0.2	----	<0.2
Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	<0.2	----	<0.2
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
EP074A: Monocyclic Aromatic Hydrocarbons								

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH114_5.0	BUR_BH114_10.0	BUR_BH114_15.0	TS 22	BUR_BH115_0.2
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-021	ES2146990-022	ES2146990-023	ES2146990-026	ES2146990-027
				Result	Result	Result	Result	Result
EP074A: Monocyclic Aromatic Hydrocarbons - Continued								
Styrene	100-42-5	0.5	mg/kg	----	<0.5	----	----	<0.5
Isopropylbenzene	98-82-8	0.5	mg/kg	----	<0.5	----	----	<0.5
n-Propylbenzene	103-65-1	0.5	mg/kg	----	<0.5	----	----	<0.5
1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	----	<0.5	----	----	<0.5
sec-Butylbenzene	135-98-8	0.5	mg/kg	----	<0.5	----	----	<0.5
1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	----	<0.5	----	----	<0.5
tert-Butylbenzene	98-06-6	0.5	mg/kg	----	<0.5	----	----	<0.5
p-Isopropyltoluene	99-87-6	0.5	mg/kg	----	<0.5	----	----	<0.5
n-Butylbenzene	104-51-8	0.5	mg/kg	----	<0.5	----	----	<0.5
EP074B: Oxygenated Compounds								
Vinyl Acetate	108-05-4	5	mg/kg	----	<5	----	----	<5
2-Butanone (MEK)	78-93-3	5	mg/kg	----	<5	----	----	<5
4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	----	<5	----	----	<5
2-Hexanone (MBK)	591-78-6	5	mg/kg	----	<5	----	----	<5
EP074C: Sulfonated Compounds								
Carbon disulfide	75-15-0	0.5	mg/kg	----	<0.5	----	----	<0.5
EP074D: Fumigants								
2.2-Dichloropropane	594-20-7	0.5	mg/kg	----	<0.5	----	----	<0.5
1.2-Dichloropropane	78-87-5	0.5	mg/kg	----	<0.5	----	----	<0.5
cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	----	<0.5	----	----	<0.5
trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	----	<0.5	----	----	<0.5
1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	----	<0.5	----	----	<0.5
EP074E: Halogenated Aliphatic Compounds								
Dichlorodifluoromethane	75-71-8	5	mg/kg	----	<5	----	----	<5
Chloromethane	74-87-3	5	mg/kg	----	<5	----	----	<5
Vinyl chloride	75-01-4	5	mg/kg	----	<5	----	----	<5
Bromomethane	74-83-9	5	mg/kg	----	<5	----	----	<5
Chloroethane	75-00-3	5	mg/kg	----	<5	----	----	<5
Trichlorofluoromethane	75-69-4	5	mg/kg	----	<5	----	----	<5
1.1-Dichloroethene	75-35-4	0.5	mg/kg	----	<0.5	----	----	<0.5
Iodomethane	74-88-4	0.5	mg/kg	----	<0.5	----	----	<0.5
trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	----	<0.5	----	----	<0.5
1.1-Dichloroethane	75-34-3	0.5	mg/kg	----	<0.5	----	----	<0.5
cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	----	<0.5	----	----	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH114_5.0	BUR_BH114_10.0	BUR_BH114_15.0	TS 22	BUR_BH115_0.2
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-021	ES2146990-022	ES2146990-023	ES2146990-026	ES2146990-027
				Result	Result	Result	Result	Result
EP074E: Halogenated Aliphatic Compounds - Continued								
1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	----	<0.5	----	----	<0.5
1.1-Dichloropropylene	563-58-6	0.5	mg/kg	----	<0.5	----	----	<0.5
Carbon Tetrachloride	56-23-5	0.5	mg/kg	----	<0.5	----	----	<0.5
1.2-Dichloroethane	107-06-2	0.5	mg/kg	----	<0.5	----	----	<0.5
Trichloroethene	79-01-6	0.5	mg/kg	----	<0.5	----	----	<0.5
Dibromomethane	74-95-3	0.5	mg/kg	----	<0.5	----	----	<0.5
1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	----	<0.5	----	----	<0.5
1.3-Dichloropropane	142-28-9	0.5	mg/kg	----	<0.5	----	----	<0.5
Tetrachloroethene	127-18-4	0.5	mg/kg	----	<0.5	----	----	<0.5
1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	----	<0.5	----	----	<0.5
trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	----	<0.5	----	----	<0.5
cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	----	<0.5	----	----	<0.5
1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	----	<0.5	----	----	<0.5
1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	----	<0.5	----	----	<0.5
Pentachloroethane	76-01-7	0.5	mg/kg	----	<0.5	----	----	<0.5
1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	----	<0.5	----	----	<0.5
Hexachlorobutadiene	87-68-3	0.5	mg/kg	----	<0.5	----	----	<0.5
EP074F: Halogenated Aromatic Compounds								
Chlorobenzene	108-90-7	0.5	mg/kg	----	<0.5	----	----	<0.5
Bromobenzene	108-86-1	0.5	mg/kg	----	<0.5	----	----	<0.5
2-Chlorotoluene	95-49-8	0.5	mg/kg	----	<0.5	----	----	<0.5
4-Chlorotoluene	106-43-4	0.5	mg/kg	----	<0.5	----	----	<0.5
1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	----	<0.5	----	----	<0.5
1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	----	<0.5	----	----	<0.5
1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	----	<0.5	----	----	<0.5
1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	----	<0.5	----	----	<0.5
1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	----	<0.5	----	----	<0.5
EP074G: Trihalomethanes								
Chloroform	67-66-3	0.5	mg/kg	----	<0.5	----	----	<0.5
Bromodichloromethane	75-27-4	0.5	mg/kg	----	<0.5	----	----	<0.5
Dibromochloromethane	124-48-1	0.5	mg/kg	----	<0.5	----	----	<0.5
Bromoform	75-25-2	0.5	mg/kg	----	<0.5	----	----	<0.5
EP074H: Naphthalene								
Naphthalene	91-20-3	1	mg/kg	----	<1	----	----	<1

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH114_5.0	BUR_BH114_10.0	BUR_BH114_15.0	TS 22	BUR_BH115_0.2
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-021	ES2146990-022	ES2146990-023	ES2146990-026	ES2146990-027
				Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	----	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	<0.5	----	**0.6**
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	----	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	----	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	<0.5	----	**3.6**
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	<0.5	----	**1.0**
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	<0.5	----	**7.1**
Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	<0.5	----	**6.7**
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	<0.5	----	**3.1**
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	<0.5	----	**2.5**
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	<0.5	----	**3.1**
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	<0.5	----	**1.4**
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	<0.5	----	**2.6**
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	<0.5	----	**1.5**
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	<0.5	----	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	<0.5	----	**1.7**
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	<0.5	----	**34.9**
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	<0.5	----	**3.6**
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	**0.6**	**0.6**	**0.6**	----	**3.8**
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	**1.2**	**1.2**	**1.2**	----	**4.0**
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	10	mg/kg	**16**	<10	<10	----	<10
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	----	<50
C15 - C28 Fraction	----	100	mg/kg	**180**	<100	<100	----	**150**
C29 - C36 Fraction	----	100	mg/kg	<100	<100	<100	----	**150**
^ C10 - C36 Fraction (sum)	----	50	mg/kg	**180**	<50	<50	----	**300**
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	10	mg/kg	**26**	<10	<10	----	<10
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	**26**	<10	<10	----	<10
>C10 - C16 Fraction	----	50	mg/kg	**70**	<50	<50	----	<50
>C16 - C34 Fraction	----	100	mg/kg	**180**	<100	<100	----	**250**
>C34 - C40 Fraction	----	100	mg/kg	<100	<100	<100	----	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	**250**	<50	<50	----	**250**

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH114_5.0	BUR_BH114_10.0	BUR_BH114_15.0	TS 22	BUR_BH115_0.2
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-021	ES2146990-022	ES2146990-023	ES2146990-026	ES2146990-027
				Result	Result	Result	Result	Result
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued								
^ **>C10 - C16 Fraction minus Naphthalene (F2)**	----	50	mg/kg	**70**	<50	<50	----	<50
EP080: BTEXN								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	**17.4**	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	**2.5**	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	<0.5	**15.5**	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	**5.7**	<0.5
^ **Sum of BTEX**	----	0.2	mg/kg	<0.2	<0.2	<0.2	**41.1**	<0.2
^ **Total Xylenes**	----	0.5	mg/kg	<0.5	<0.5	<0.5	**21.2**	<0.5
Naphthalene	91-20-3	1	mg/kg	<1	<1	<1	<1	<1
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	5.0	µg/kg	----	----	<5.0	----	<5.0
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	5.0	µg/kg	----	----	<5.0	----	<5.0
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	5.0	µg/kg	----	----	<5.0	----	<5.0
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	5.0	µg/kg	----	----	<5.0	----	<5.0
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	5.0	µg/kg	----	----	<5.0	----	<5.0
Perfluorodecane sulfonic acid (PFDS)	335-77-3	5.0	µg/kg	----	----	<5.0	----	<5.0
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	5	µg/kg	----	----	<5	----	<5
Perfluoropentanoic acid (PFPeA)	2706-90-3	5.0	µg/kg	----	----	<5.0	----	<5.0
Perfluorohexanoic acid (PFHxA)	307-24-4	5.0	µg/kg	----	----	<5.0	----	<5.0
Perfluoroheptanoic acid (PFHpA)	375-85-9	5.0	µg/kg	----	----	<5.0	----	<5.0
Perfluorooctanoic acid (PFOA)	335-67-1	5.0	µg/kg	----	----	<5.0	----	<5.0
Perfluorononanoic acid (PFNA)	375-95-1	5.0	µg/kg	----	----	<5.0	----	<5.0
Perfluorodecanoic acid (PFDA)	335-76-2	5.0	µg/kg	----	----	<5.0	----	<5.0
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	5.0	µg/kg	----	----	<5.0	----	<5.0

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH114_5.0	BUR_BH114_10.0	BUR_BH114_15.0	TS 22	BUR_BH115_0.2
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-021	ES2146990-022	ES2146990-023	ES2146990-026	ES2146990-027
				Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorododecanoic acid (PFDoDA)	307-55-1	5.0	µg/kg	----	----	<5.0	----	<5.0
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	5.0	µg/kg	----	----	<5.0	----	<5.0
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	5.0	µg/kg	----	----	<5.0	----	<5.0
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	5.0	µg/kg	----	----	<5.0	----	<5.0
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	5.0	µg/kg	----	----	<5.0	----	<5.0
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	5.0	µg/kg	----	----	<5.0	----	<5.0
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	5.0	µg/kg	----	----	<5.0	----	<5.0
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	5.0	µg/kg	----	----	<5.0	----	<5.0
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	5.0	µg/kg	----	----	<5.0	----	<5.0
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	5.0	µg/kg	----	----	<5.0	----	<5.0
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	5.0	µg/kg	----	----	<5.0	----	<5.0
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	5.0	µg/kg	----	----	<5.0	----	<5.0
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	5.0	µg/kg	----	----	<5.0	----	<5.0
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	5.0	µg/kg	----	----	<5.0	----	<5.0
EP231P: PFAS Sums								
Sum of PFAS	----	5.0	µg/kg	----	----	<5.0	----	<5.0
Sum of PFHxS and PFOS	355-46-4/1763-23-1	5.0	µg/kg	----	----	<5.0	----	<5.0

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH114_5.0	BUR_BH114_10.0	BUR_BH114_15.0	TS 22	BUR_BH115_0.2
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-021	ES2146990-022	ES2146990-023	ES2146990-026	ES2146990-027
				Result	Result	Result	Result	Result
EP231P: PFAS Sums - Continued								
Sum of PFAS (WA DER List)	----	5.0	µg/kg	----	----	<5.0	----	<5.0
EP066S: PCB Surrogate								
Decachlorobiphenyl	2051-24-3	0.1	%	104	115	113	----	119
EP068S: Organochlorine Pesticide Surrogate								
Dibromo-DDE	21655-73-2	0.05	%	99.7	117	97.6	----	77.5
EP068T: Organophosphorus Pesticide Surrogate								
DEF	78-48-8	0.05	%	114	111	97.9	----	98.7
EP074S: VOC Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.5	%	----	81.2	----	----	94.9
Toluene-D8	2037-26-5	0.5	%	----	86.9	----	----	88.9
4-Bromofluorobenzene	460-00-4	0.5	%	----	86.6	----	----	90.6
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.5	%	89.8	85.4	79.4	----	88.4
2-Chlorophenol-D4	93951-73-6	0.5	%	95.6	90.9	82.6	----	90.6
2.4.6-Tribromophenol	118-79-6	0.5	%	80.5	79.6	60.4	----	73.4
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.5	%	104	98.2	81.5	----	90.2
Anthracene-d10	1719-06-8	0.5	%	96.6	92.4	86.5	----	92.8
4-Terphenyl-d14	1718-51-0	0.5	%	95.7	93.4	85.1	----	85.6
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	100	79.1	98.0	96.5	92.5
Toluene-D8	2037-26-5	0.2	%	107	78.9	102	99.5	80.7
4-Bromofluorobenzene	460-00-4	0.2	%	87.8	79.1	85.6	90.2	82.7
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	----	----	91.5	----	100
13C8-PFOA	----	0.0002	%	----	----	102	----	103

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH115_0.5	BUR_BH115_1.0	BUR_BH115_5.0	BUR_BH115_10.0	BUR_BH115_15.0
			Sampling date / time	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-028	ES2146990-029	ES2146990-030	ES2146990-031	ES2146990-032
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	24.4	29.3	8.2	5.6	4.5
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	6	5	9	11	8
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg	20	20	11	16	9
Copper	7440-50-8	5	mg/kg	42	13	56	34	40
Lead	7439-92-1	5	mg/kg	4380	186	19	21	20
Nickel	7440-02-0	2	mg/kg	20	3	26	21	24
Zinc	7440-66-6	5	mg/kg	280	14	115	79	87
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Total Chlordane (sum)	----	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH115_0.5	BUR_BH115_1.0	BUR_BH115_5.0	BUR_BH115_10.0	BUR_BH115_15.0
			Sampling date / time	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-028	ES2146990-029	ES2146990-030	ES2146990-031	ES2146990-032
				Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued								
4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
EP068B: Organophosphorus Pesticides (OP)								
Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
EP074A: Monocyclic Aromatic Hydrocarbons								
Styrene	100-42-5	0.5	mg/kg	----	<0.5	----	<0.5	----
Isopropylbenzene	98-82-8	0.5	mg/kg	----	<0.5	----	<0.5	----
n-Propylbenzene	103-65-1	0.5	mg/kg	----	<0.5	----	<0.5	----
1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	----	<0.5	----	<0.5	----
sec-Butylbenzene	135-98-8	0.5	mg/kg	----	<0.5	----	<0.5	----
1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	----	<0.5	----	<0.5	----
tert-Butylbenzene	98-06-6	0.5	mg/kg	----	<0.5	----	<0.5	----
p-Isopropyltoluene	99-87-6	0.5	mg/kg	----	<0.5	----	<0.5	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH115_0.5	BUR_BH115_1.0	BUR_BH115_5.0	BUR_BH115_10.0	BUR_BH115_15.0
			Sampling date / time	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-028	ES2146990-029	ES2146990-030	ES2146990-031	ES2146990-032
				Result	Result	Result	Result	Result
EP074A: Monocyclic Aromatic Hydrocarbons - Continued								
n-Butylbenzene	104-51-8	0.5	mg/kg	----	<0.5	----	<0.5	----
EP074B: Oxygenated Compounds								
Vinyl Acetate	108-05-4	5	mg/kg	----	<5	----	<5	----
2-Butanone (MEK)	78-93-3	5	mg/kg	----	<5	----	<5	----
4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	----	<5	----	<5	----
2-Hexanone (MBK)	591-78-6	5	mg/kg	----	<5	----	<5	----
EP074C: Sulfonated Compounds								
Carbon disulfide	75-15-0	0.5	mg/kg	----	<0.5	----	<0.5	----
EP074D: Fumigants								
2.2-Dichloropropane	594-20-7	0.5	mg/kg	----	<0.5	----	<0.5	----
1.2-Dichloropropane	78-87-5	0.5	mg/kg	----	<0.5	----	<0.5	----
cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	----	<0.5	----	<0.5	----
trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	----	<0.5	----	<0.5	----
1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	----	<0.5	----	<0.5	----
EP074E: Halogenated Aliphatic Compounds								
Dichlorodifluoromethane	75-71-8	5	mg/kg	----	<5	----	<5	----
Chloromethane	74-87-3	5	mg/kg	----	<5	----	<5	----
Vinyl chloride	75-01-4	5	mg/kg	----	<5	----	<5	----
Bromomethane	74-83-9	5	mg/kg	----	<5	----	<5	----
Chloroethane	75-00-3	5	mg/kg	----	<5	----	<5	----
Trichlorofluoromethane	75-69-4	5	mg/kg	----	<5	----	<5	----
1.1-Dichloroethene	75-35-4	0.5	mg/kg	----	<0.5	----	<0.5	----
Iodomethane	74-88-4	0.5	mg/kg	----	<0.5	----	<0.5	----
trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	----	<0.5	----	<0.5	----
1.1-Dichloroethane	75-34-3	0.5	mg/kg	----	<0.5	----	<0.5	----
cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	----	<0.5	----	<0.5	----
1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	----	<0.5	----	<0.5	----
1.1-Dichloropropylene	563-58-6	0.5	mg/kg	----	<0.5	----	<0.5	----
Carbon Tetrachloride	56-23-5	0.5	mg/kg	----	<0.5	----	<0.5	----
1.2-Dichloroethane	107-06-2	0.5	mg/kg	----	<0.5	----	<0.5	----
Trichloroethene	79-01-6	0.5	mg/kg	----	<0.5	----	<0.5	----
Dibromomethane	74-95-3	0.5	mg/kg	----	<0.5	----	<0.5	----
1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	----	<0.5	----	<0.5	----
1.3-Dichloropropane	142-28-9	0.5	mg/kg	----	<0.5	----	<0.5	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH115_0.5	BUR_BH115_1.0	BUR_BH115_5.0	BUR_BH115_10.0	BUR_BH115_15.0
			Sampling date / time	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-028	ES2146990-029	ES2146990-030	ES2146990-031	ES2146990-032
				Result	Result	Result	Result	Result
EP074E: Halogenated Aliphatic Compounds - Continued								
Tetrachloroethene	127-18-4	0.5	mg/kg	----	<0.5	----	<0.5	----
1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	----	<0.5	----	<0.5	----
trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	----	<0.5	----	<0.5	----
cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	----	<0.5	----	<0.5	----
1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	----	<0.5	----	<0.5	----
1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	----	<0.5	----	<0.5	----
Pentachloroethane	76-01-7	0.5	mg/kg	----	<0.5	----	<0.5	----
1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	----	<0.5	----	<0.5	----
Hexachlorobutadiene	87-68-3	0.5	mg/kg	----	<0.5	----	<0.5	----
EP074F: Halogenated Aromatic Compounds								
Chlorobenzene	108-90-7	0.5	mg/kg	----	<0.5	----	<0.5	----
Bromobenzene	108-86-1	0.5	mg/kg	----	<0.5	----	<0.5	----
2-Chlorotoluene	95-49-8	0.5	mg/kg	----	<0.5	----	<0.5	----
4-Chlorotoluene	106-43-4	0.5	mg/kg	----	<0.5	----	<0.5	----
1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	----	<0.5	----	<0.5	----
1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	----	<0.5	----	<0.5	----
1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	----	<0.5	----	<0.5	----
1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	----	<0.5	----	<0.5	----
1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	----	<0.5	----	<0.5	----
EP074G: Trihalomethanes								
Chloroform	67-66-3	0.5	mg/kg	----	<0.5	----	<0.5	----
Bromodichloromethane	75-27-4	0.5	mg/kg	----	<0.5	----	<0.5	----
Dibromochloromethane	124-48-1	0.5	mg/kg	----	<0.5	----	<0.5	----
Bromoform	75-25-2	0.5	mg/kg	----	<0.5	----	<0.5	----
EP074H: Naphthalene								
Naphthalene	91-20-3	1	mg/kg	----	<1	----	<1	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	**0.6**	<0.5	<0.5	<0.5	**1.1**
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	**1.8**	<0.5	<0.5	<0.5	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH115_0.5	BUR_BH115_1.0	BUR_BH115_5.0	BUR_BH115_10.0	BUR_BH115_15.0
			Sampling date / time	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-028	ES2146990-029	ES2146990-030	ES2146990-031	ES2146990-032
				Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued								
Pyrene	129-00-0	0.5	mg/kg	**1.8**	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg	**1.0**	<0.5	<0.5	<0.5	<0.5
Chrysene	218-01-9	0.5	mg/kg	**0.8**	<0.5	<0.5	<0.5	<0.5
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	**1.3**	<0.5	<0.5	<0.5	<0.5
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	**0.6**	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg	**1.2**	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	**0.6**	<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	**0.8**	<0.5	<0.5	<0.5	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	**10.5**	<0.5	<0.5	<0.5	**1.1**
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	**1.6**	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	**1.8**	**0.6**	**0.6**	**0.6**	**0.6**
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	**2.1**	**1.2**	**1.2**	**1.2**	**1.2**
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	10	mg/kg	<10	<10	<10	<10	**44**
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	<50	**150**
C15 - C28 Fraction	----	100	mg/kg	<100	<100	<100	<100	**300**
C29 - C36 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	<50	<50	**450**
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	<10	<10	**69**
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	<10	<10	<10	**69**
>C10 - C16 Fraction	----	50	mg/kg	<50	<50	<50	<50	**170**
>C16 - C34 Fraction	----	100	mg/kg	<100	<100	<100	<100	**300**
>C34 - C40 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	<50	<50	**470**
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	<50	<50	<50	**170**
EP080: BTEXN								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH115_0.5	BUR_BH115_1.0	BUR_BH115_5.0	BUR_BH115_10.0	BUR_BH115_15.0
			Sampling date / time	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-028	ES2146990-029	ES2146990-030	ES2146990-031	ES2146990-032
				Result	Result	Result	Result	Result
EP080: BTEXN - Continued								
^ Sum of BTEX	----	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
^ Total Xylenes	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	91-20-3	1	mg/kg	<1	<1	<1	<1	<1
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	5.0	µg/kg	----	----	----	----	<5.0
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	5.0	µg/kg	----	----	----	----	<5.0
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	5.0	µg/kg	----	----	----	----	<5.0
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	5.0	µg/kg	----	----	----	----	<5.0
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	5.0	µg/kg	----	----	----	----	<5.0
Perfluorodecane sulfonic acid (PFDS)	335-77-3	5.0	µg/kg	----	----	----	----	<5.0
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	5	µg/kg	----	----	----	----	<5
Perfluoropentanoic acid (PFPeA)	2706-90-3	5.0	µg/kg	----	----	----	----	<5.0
Perfluorohexanoic acid (PFHxA)	307-24-4	5.0	µg/kg	----	----	----	----	<5.0
Perfluoroheptanoic acid (PFHpA)	375-85-9	5.0	µg/kg	----	----	----	----	<5.0
Perfluorooctanoic acid (PFOA)	335-67-1	5.0	µg/kg	----	----	----	----	<5.0
Perfluorononanoic acid (PFNA)	375-95-1	5.0	µg/kg	----	----	----	----	<5.0
Perfluorodecanoic acid (PFDA)	335-76-2	5.0	µg/kg	----	----	----	----	<5.0
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	5.0	µg/kg	----	----	----	----	<5.0
Perfluorododecanoic acid (PFDoDA)	307-55-1	5.0	µg/kg	----	----	----	----	<5.0
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	5.0	µg/kg	----	----	----	----	<5.0
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	5.0	µg/kg	----	----	----	----	<5.0
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	5.0	µg/kg	----	----	----	----	<5.0

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BUR_BH115_0.5	BUR_BH115_1.0	BUR_BH115_5.0	BUR_BH115_10.0	BUR_BH115_15.0
				Sampling date / time	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit		ES2146990-028	ES2146990-029	ES2146990-030	ES2146990-031	ES2146990-032
					Result	Result	Result	Result	Result
EP231C: Perfluoroalkyl Sulfonamides - Continued									
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	5.0	µg/kg		----	----	----	----	<5.0
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	5.0	µg/kg		----	----	----	----	<5.0
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	5.0	µg/kg		----	----	----	----	<5.0
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	5.0	µg/kg		----	----	----	----	<5.0
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	5.0	µg/kg		----	----	----	----	<5.0
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	5.0	µg/kg		----	----	----	----	<5.0
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	5.0	µg/kg		----	----	----	----	<5.0
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	5.0	µg/kg		----	----	----	----	<5.0
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	5.0	µg/kg		----	----	----	----	<5.0
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	5.0	µg/kg		----	----	----	----	<5.0
EP231P: PFAS Sums									
Sum of PFAS	----	5.0	µg/kg		----	----	----	----	<5.0
Sum of PFHxS and PFOS	355-46-4/1763-23-1	5.0	µg/kg		----	----	----	----	<5.0
Sum of PFAS (WA DER List)	----	5.0	µg/kg		----	----	----	----	<5.0
EP066S: PCB Surrogate									
Decachlorobiphenyl	2051-24-3	0.1	%		**107**	**118**	**120**	**129**	**99.8**
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%		**96.0**	**120**	**115**	**97.7**	**80.8**
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%		**118**	**124**	**122**	**111**	**107**
EP074S: VOC Surrogates									

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH115_0.5	BUR_BH115_1.0	BUR_BH115_5.0	BUR_BH115_10.0	BUR_BH115_15.0
			Sampling date / time	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-028	ES2146990-029	ES2146990-030	ES2146990-031	ES2146990-032
				Result	Result	Result	Result	Result
EP074S: VOC Surrogates - Continued								
1.2-Dichloroethane-D4	17060-07-0	0.5	%	----	90.3	----	104	----
Toluene-D8	2037-26-5	0.5	%	----	104	----	118	----
4-Bromofluorobenzene	460-00-4	0.5	%	----	93.5	----	103	----
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.5	%	86.4	82.0	80.6	89.2	92.4
2-Chlorophenol-D4	93951-73-6	0.5	%	87.5	86.6	83.8	92.6	95.1
2.4.6-Tribromophenol	118-79-6	0.5	%	84.5	86.1	86.4	90.2	88.5
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.5	%	99.8	94.8	93.9	100	102
Anthracene-d10	1719-06-8	0.5	%	106	102	102	105	107
4-Terphenyl-d14	1718-51-0	0.5	%	94.6	88.7	98.0	97.6	99.8
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	97.2	88.1	96.0	101	97.7
Toluene-D8	2037-26-5	0.2	%	94.0	94.3	101	107	106
4-Bromofluorobenzene	460-00-4	0.2	%	72.1	85.8	81.6	94.8	87.6
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	----	----	----	----	92.0
13C8-PFOA	----	0.0002	%	----	----	----	----	100

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH117_0.2	BUR_BH117_1.0	BUR_BH117_3.0	D08_20211221	BUR_BH125_0.2
			Sampling date / time	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-033	ES2146990-034	ES2146990-035	ES2146990-036	ES2146990-037
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	21.2	22.5	13.4	18.4	17.8
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Asbestos Detected	1332-21-4	0.1	g/kg	No	----	----	----	No
Asbestos (Trace)	1332-21-4	5	Fibres	No	----	----	----	No
Asbestos Type	1332-21-4	-	--	-	----	----	----	-
Synthetic Mineral Fibre	----	0.1	g/kg	No	----	----	----	No
Organic Fibre	----	0.1	g/kg	No	----	----	----	No
Sample weight (dry)	----	0.01	g	518	----	----	----	474
APPROVED IDENTIFIER:	----	-	--	A. SMYLIE	----	----	----	A. SMYLIE
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	10	6	10	19	10
Cadmium	7440-43-9	1	mg/kg	5	<1	<1	8	<1
Chromium	7440-47-3	2	mg/kg	22	12	8	28	18
Copper	7440-50-8	5	mg/kg	207	10	20	308	53
Lead	7439-92-1	5	mg/kg	724	27	18	1030	445
Nickel	7440-02-0	2	mg/kg	37	<2	<2	62	9
Zinc	7440-66-6	5	mg/kg	1180	<5	11	2170	286
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	0.2	<0.1	<0.1	0.2	0.2
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Total Chlordane (sum)	----	0.05	mg/kg	0.07	<0.05	<0.05	<0.05	<0.05
trans-Chlordane	5103-74-2	0.05	mg/kg	0.07	<0.05	<0.05	<0.05	<0.05
alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH117_0.2	BUR_BH117_1.0	BUR_BH117_3.0	D08_20211221	BUR_BH125_0.2
			Sampling date / time	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-033	ES2146990-034	ES2146990-035	ES2146990-036	ES2146990-037
				Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued								
Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
EP068B: Organophosphorus Pesticides (OP)								
Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
EP074A: Monocyclic Aromatic Hydrocarbons								

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH117_0.2	BUR_BH117_1.0	BUR_BH117_3.0	D08_20211221	BUR_BH125_0.2
			Sampling date / time	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-033	ES2146990-034	ES2146990-035	ES2146990-036	ES2146990-037
				Result	Result	Result	Result	Result
EP074A: Monocyclic Aromatic Hydrocarbons - Continued								
Styrene	100-42-5	0.5	mg/kg	<0.5	----	----	<0.5	----
Isopropylbenzene	98-82-8	0.5	mg/kg	<0.5	----	----	<0.5	----
n-Propylbenzene	103-65-1	0.5	mg/kg	<0.5	----	----	<0.5	----
1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	<0.5	----	----	<0.5	----
sec-Butylbenzene	135-98-8	0.5	mg/kg	<0.5	----	----	<0.5	----
1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	<0.5	----	----	<0.5	----
tert-Butylbenzene	98-06-6	0.5	mg/kg	<0.5	----	----	<0.5	----
p-Isopropyltoluene	99-87-6	0.5	mg/kg	<0.5	----	----	<0.5	----
n-Butylbenzene	104-51-8	0.5	mg/kg	<0.5	----	----	<0.5	----
EP074B: Oxygenated Compounds								
Vinyl Acetate	108-05-4	5	mg/kg	<5	----	----	<5	----
2-Butanone (MEK)	78-93-3	5	mg/kg	<5	----	----	<5	----
4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	<5	----	----	<5	----
2-Hexanone (MBK)	591-78-6	5	mg/kg	<5	----	----	<5	----
EP074C: Sulfonated Compounds								
Carbon disulfide	75-15-0	0.5	mg/kg	<0.5	----	----	<0.5	----
EP074D: Fumigants								
2.2-Dichloropropane	594-20-7	0.5	mg/kg	<0.5	----	----	<0.5	----
1.2-Dichloropropane	78-87-5	0.5	mg/kg	<0.5	----	----	<0.5	----
cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	<0.5	----	----	<0.5	----
trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	<0.5	----	----	<0.5	----
1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	<0.5	----	----	<0.5	----
EP074E: Halogenated Aliphatic Compounds								
Dichlorodifluoromethane	75-71-8	5	mg/kg	<5	----	----	<5	----
Chloromethane	74-87-3	5	mg/kg	<5	----	----	<5	----
Vinyl chloride	75-01-4	5	mg/kg	<5	----	----	<5	----
Bromomethane	74-83-9	5	mg/kg	<5	----	----	<5	----
Chloroethane	75-00-3	5	mg/kg	<5	----	----	<5	----
Trichlorofluoromethane	75-69-4	5	mg/kg	<5	----	----	<5	----
1.1-Dichloroethene	75-35-4	0.5	mg/kg	<0.5	----	----	<0.5	----
Iodomethane	74-88-4	0.5	mg/kg	<0.5	----	----	<0.5	----
trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	<0.5	----	----	<0.5	----
1.1-Dichloroethane	75-34-3	0.5	mg/kg	<0.5	----	----	<0.5	----
cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	<0.5	----	----	<0.5	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH117_0.2	BUR_BH117_1.0	BUR_BH117_3.0	D08_20211221	BUR_BH125_0.2
			Sampling date / time	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-033	ES2146990-034	ES2146990-035	ES2146990-036	ES2146990-037
				Result	Result	Result	Result	Result
EP074E: Halogenated Aliphatic Compounds - Continued								
1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	<0.5	----	----	<0.5	----
1.1-Dichloropropylene	563-58-6	0.5	mg/kg	<0.5	----	----	<0.5	----
Carbon Tetrachloride	56-23-5	0.5	mg/kg	<0.5	----	----	<0.5	----
1.2-Dichloroethane	107-06-2	0.5	mg/kg	<0.5	----	----	<0.5	----
Trichloroethene	79-01-6	0.5	mg/kg	<0.5	----	----	<0.5	----
Dibromomethane	74-95-3	0.5	mg/kg	<0.5	----	----	<0.5	----
1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	<0.5	----	----	<0.5	----
1.3-Dichloropropane	142-28-9	0.5	mg/kg	<0.5	----	----	<0.5	----
Tetrachloroethene	127-18-4	0.5	mg/kg	<0.5	----	----	<0.5	----
1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	<0.5	----	----	<0.5	----
trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	<0.5	----	----	<0.5	----
cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	<0.5	----	----	<0.5	----
1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	<0.5	----	----	<0.5	----
1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	<0.5	----	----	<0.5	----
Pentachloroethane	76-01-7	0.5	mg/kg	<0.5	----	----	<0.5	----
1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	<0.5	----	----	<0.5	----
Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	----	----	<0.5	----
EP074F: Halogenated Aromatic Compounds								
Chlorobenzene	108-90-7	0.5	mg/kg	<0.5	----	----	<0.5	----
Bromobenzene	108-86-1	0.5	mg/kg	<0.5	----	----	<0.5	----
2-Chlorotoluene	95-49-8	0.5	mg/kg	<0.5	----	----	<0.5	----
4-Chlorotoluene	106-43-4	0.5	mg/kg	<0.5	----	----	<0.5	----
1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	----	----	<0.5	----
1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	----	----	<0.5	----
1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	----	----	<0.5	----
1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	----	----	<0.5	----
1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	<0.5	----	----	<0.5	----
EP074G: Trihalomethanes								
Chloroform	67-66-3	0.5	mg/kg	<0.5	----	----	<0.5	----
Bromodichloromethane	75-27-4	0.5	mg/kg	<0.5	----	----	<0.5	----
Dibromochloromethane	124-48-1	0.5	mg/kg	<0.5	----	----	<0.5	----
Bromoform	75-25-2	0.5	mg/kg	<0.5	----	----	<0.5	----
EP074H: Naphthalene								
Naphthalene	91-20-3	1	mg/kg	<1	----	----	<1	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH117_0.2	BUR_BH117_1.0	BUR_BH117_3.0	D08_20211221	BUR_BH125_0.2
			Sampling date / time	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-033	ES2146990-034	ES2146990-035	ES2146990-036	ES2146990-037
				Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	**0.7**
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	**0.9**	<0.5	<0.5	**1.0**	**3.4**
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	**1.0**
Fluoranthene	206-44-0	0.5	mg/kg	**1.9**	<0.5	<0.5	**2.1**	**6.1**
Pyrene	129-00-0	0.5	mg/kg	**1.9**	<0.5	<0.5	**2.2**	**6.1**
Benz(a)anthracene	56-55-3	0.5	mg/kg	**0.9**	<0.5	<0.5	**1.0**	**3.2**
Chrysene	218-01-9	0.5	mg/kg	**0.9**	<0.5	<0.5	**1.0**	**3.0**
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	**1.2**	<0.5	<0.5	**1.3**	**4.1**
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	<0.5	**0.5**	**1.5**
Benzo(a)pyrene	50-32-8	0.5	mg/kg	**1.1**	<0.5	<0.5	**1.1**	**3.6**
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	**0.6**	<0.5	<0.5	**0.6**	**2.0**
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	**0.7**	<0.5	<0.5	**0.8**	**2.2**
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	**10.1**	<0.5	<0.5	**11.6**	**36.9**
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	**1.4**	<0.5	<0.5	**1.4**	**4.7**
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	**1.7**	**0.6**	**0.6**	**1.7**	**5.0**
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	**1.9**	**1.2**	**1.2**	**2.0**	**5.2**
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	10	mg/kg	<10	<10	<10	<10	<10
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
C15 - C28 Fraction	----	100	mg/kg	<100	<100	<100	<100	**160**
C29 - C36 Fraction	----	100	mg/kg	<100	<100	<100	<100	**130**
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	<50	<50	**290**
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	<10	<10	<10
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	<10	<10	<10	<10
>C10 - C16 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
>C16 - C34 Fraction	----	100	mg/kg	<100	<100	<100	**150**	**240**
>C34 - C40 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	<50	**150**	**240**

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH117_0.2	BUR_BH117_1.0	BUR_BH117_3.0	D08_20211221	BUR_BH125_0.2
			Sampling date / time	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-033	ES2146990-034	ES2146990-035	ES2146990-036	ES2146990-037
				Result	Result	Result	Result	Result
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued								
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	<50	<50	<50	<50
EP080: BTEXN								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of BTEX	----	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
^ Total Xylenes	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	91-20-3	1	mg/kg	<1	<1	<1	<1	<1
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
Perfluorodecane sulfonic acid (PFDS)	335-77-3	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	5	µg/kg	<5	----	<5	<5	<5
Perfluoropentanoic acid (PFPeA)	2706-90-3	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
Perfluorohexanoic acid (PFHxA)	307-24-4	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
Perfluoroheptanoic acid (PFHpA)	375-85-9	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
Perfluorooctanoic acid (PFOA)	335-67-1	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
Perfluorononanoic acid (PFNA)	375-95-1	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
Perfluorodecanoic acid (PFDA)	335-76-2	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH117_0.2	BUR_BH117_1.0	BUR_BH117_3.0	D08_20211221	BUR_BH125_0.2
			Sampling date / time	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-033	ES2146990-034	ES2146990-035	ES2146990-036	ES2146990-037
				Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorododecanoic acid (PFDoDA)	307-55-1	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
EP231P: PFAS Sums								
Sum of PFAS	----	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
Sum of PFHxS and PFOS	355-46-4/1763-23-1	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH117_0.2	BUR_BH117_1.0	BUR_BH117_3.0	D08_20211221	BUR_BH125_0.2
			Sampling date / time	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-033	ES2146990-034	ES2146990-035	ES2146990-036	ES2146990-037
				Result	Result	Result	Result	Result
EP231P: PFAS Sums - Continued								
Sum of PFAS (WA DER List)	----	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
EP066S: PCB Surrogate								
Decachlorobiphenyl	2051-24-3	0.1	%	99.6	86.0	105	82.0	87.4
EP068S: Organochlorine Pesticide Surrogate								
Dibromo-DDE	21655-73-2	0.05	%	97.3	98.4	91.5	72.5	72.8
EP068T: Organophosphorus Pesticide Surrogate								
DEF	78-48-8	0.05	%	115	75.9	65.5	81.0	76.8
EP074S: VOC Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.5	%	96.8	----	----	104	----
Toluene-D8	2037-26-5	0.5	%	96.5	----	----	93.6	----
4-Bromofluorobenzene	460-00-4	0.5	%	92.4	----	----	87.1	----
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.5	%	82.9	92.8	92.9	83.5	95.5
2-Chlorophenol-D4	93951-73-6	0.5	%	84.6	88.1	92.3	85.6	90.2
2.4.6-Tribromophenol	118-79-6	0.5	%	82.2	67.8	62.5	56.5	67.3
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.5	%	98.3	82.3	83.7	82.7	80.7
Anthracene-d10	1719-06-8	0.5	%	105	103	102	99.0	103
4-Terphenyl-d14	1718-51-0	0.5	%	93.2	97.7	97.4	98.3	95.8
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	94.3	97.3	93.0	102	101
Toluene-D8	2037-26-5	0.2	%	87.8	97.2	101	85.1	107
4-Bromofluorobenzene	460-00-4	0.2	%	85.2	82.9	82.6	81.2	87.7
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	116	----	96.0	108	99.5
13C8-PFOA	----	0.0002	%	109	----	106	104	102

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH125_0.5	BUR_BH125_5.0	BUR_BH101_0.1	BUR_BH101_2.0	BUR_BH112_0.2
			Sampling date / time	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-038	ES2146990-039	ES2146990-040	ES2146990-042	ES2146990-043
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	0.1	%	----	----	12.6	16.5	13.4
Moisture Content	----	1.0	%	22.5	14.6	----	----	----
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Asbestos Detected	1332-21-4	0.1	g/kg	----	----	No	----	No
Asbestos (Trace)	1332-21-4	5	Fibres	----	----	No	----	No
Asbestos Type	1332-21-4	-	--	----	----	-	----	-
Synthetic Mineral Fibre	----	0.1	g/kg	----	----	No	----	No
Organic Fibre	----	0.1	g/kg	----	----	No	----	No
Sample weight (dry)	----	0.01	g	----	----	378	----	277
APPROVED IDENTIFIER:	----	-	--	----	----	A. SMYLIE	----	A. SMYLIE
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	9	7	<5	----	<5
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	----	<1
Chromium	7440-47-3	2	mg/kg	25	14	17	----	96
Copper	7440-50-8	5	mg/kg	15	21	22	----	27
Lead	7439-92-1	5	mg/kg	50	21	45	----	10
Nickel	7440-02-0	2	mg/kg	4	2	20	----	95
Zinc	7440-66-6	5	mg/kg	31	18	59	----	56
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	----	<0.1
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	<0.1	----	<0.1
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
^ Total Chlordane (sum)	----	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH125_0.5	BUR_BH125_5.0	BUR_BH101_0.1	BUR_BH101_2.0	BUR_BH112_0.2
			Sampling date / time	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-038	ES2146990-039	ES2146990-040	ES2146990-042	ES2146990-043
				Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued								
cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
^ Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	<0.2	----	<0.2
Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	<0.2	----	<0.2
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
EP068B: Organophosphorus Pesticides (OP)								
Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	<0.2	----	<0.2
Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	<0.2	----	<0.2
Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	<0.2	----	<0.2
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH125_0.5	BUR_BH125_5.0	BUR_BH101_0.1	BUR_BH101_2.0	BUR_BH112_0.2
			Sampling date / time	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-038	ES2146990-039	ES2146990-040	ES2146990-042	ES2146990-043
				Result	Result	Result	Result	Result
EP074A: Monocyclic Aromatic Hydrocarbons								
Styrene	100-42-5	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
Isopropylbenzene	98-82-8	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
n-Propylbenzene	103-65-1	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
sec-Butylbenzene	135-98-8	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
tert-Butylbenzene	98-06-6	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
p-Isopropyltoluene	99-87-6	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
n-Butylbenzene	104-51-8	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
EP074B: Oxygenated Compounds								
Vinyl Acetate	108-05-4	5	mg/kg	<5	----	<5	<5	----
2-Butanone (MEK)	78-93-3	5	mg/kg	<5	----	<5	<5	----
4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	<5	----	<5	<5	----
2-Hexanone (MBK)	591-78-6	5	mg/kg	<5	----	<5	<5	----
EP074C: Sulfonated Compounds								
Carbon disulfide	75-15-0	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
EP074D: Fumigants								
2.2-Dichloropropane	594-20-7	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
1.2-Dichloropropane	78-87-5	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
EP074E: Halogenated Aliphatic Compounds								
Dichlorodifluoromethane	75-71-8	5	mg/kg	<5	----	<5	<5	----
Chloromethane	74-87-3	5	mg/kg	<5	----	<5	<5	----
Vinyl chloride	75-01-4	5	mg/kg	<5	----	<5	<5	----
Bromomethane	74-83-9	5	mg/kg	<5	----	<5	<5	----
Chloroethane	75-00-3	5	mg/kg	<5	----	<5	<5	----
Trichlorofluoromethane	75-69-4	5	mg/kg	<5	----	<5	<5	----
1.1-Dichloroethene	75-35-4	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
Iodomethane	74-88-4	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
1.1-Dichloroethane	75-34-3	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	<0.5	----	<0.5	<0.5	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH125_0.5	BUR_BH125_5.0	BUR_BH101_0.1	BUR_BH101_2.0	BUR_BH112_0.2
			Sampling date / time	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-038	ES2146990-039	ES2146990-040	ES2146990-042	ES2146990-043
				Result	Result	Result	Result	Result
EP074E: Halogenated Aliphatic Compounds - Continued								
1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
1.1-Dichloropropylene	563-58-6	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
Carbon Tetrachloride	56-23-5	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
1.2-Dichloroethane	107-06-2	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
Trichloroethene	79-01-6	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
Dibromomethane	74-95-3	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
1.3-Dichloropropane	142-28-9	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
Tetrachloroethene	127-18-4	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
Pentachloroethane	76-01-7	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
EP074F: Halogenated Aromatic Compounds								
Chlorobenzene	108-90-7	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
Bromobenzene	108-86-1	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
2-Chlorotoluene	95-49-8	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
4-Chlorotoluene	106-43-4	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
EP074G: Trihalomethanes								
Chloroform	67-66-3	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
Bromodichloromethane	75-27-4	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
Dibromochloromethane	124-48-1	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
Bromoform	75-25-2	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
EP074H: Naphthalene								
Naphthalene	91-20-3	1	mg/kg	<1	----	<1	<1	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH125_0.5	BUR_BH125_5.0	BUR_BH101_0.1	BUR_BH101_2.0	BUR_BH112_0.2
			Sampling date / time	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-038	ES2146990-039	ES2146990-040	ES2146990-042	ES2146990-043
				Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	----	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	<0.5	----	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	----	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	----	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	**3.2**	----	<0.5
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	**1.0**	----	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	**4.8**	----	<0.5
Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	**4.1**	----	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	**1.8**	----	<0.5
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	**1.6**	----	<0.5
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	**2.0**	----	<0.5
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	**0.8**	----	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	**1.6**	----	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	**0.9**	----	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	<0.5	----	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	**1.1**	----	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	**22.9**	----	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	**2.2**	----	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	**0.6**	**0.6**	**2.4**	----	**0.6**
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	**1.2**	**1.2**	**2.7**	----	**1.2**
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	10	mg/kg	<10	<10	<10	----	<10
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	----	<50
C15 - C28 Fraction	----	100	mg/kg	<100	<100	<100	----	<100
C29 - C36 Fraction	----	100	mg/kg	<100	<100	<100	----	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	<50	----	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	<10	----	**11**
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	<10	<10	----	**11**
>C10 - C16 Fraction	----	50	mg/kg	<50	<50	<50	----	<50
>C16 - C34 Fraction	----	100	mg/kg	<100	<100	<100	----	<100
>C34 - C40 Fraction	----	100	mg/kg	<100	<100	**120**	----	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	**120**	----	<50

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH125_0.5	BUR_BH125_5.0	BUR_BH101_0.1	BUR_BH101_2.0	BUR_BH112_0.2
			Sampling date / time	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-038	ES2146990-039	ES2146990-040	ES2146990-042	ES2146990-043
				Result	Result	Result	Result	Result
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued								
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	<50	<50	----	<50
EP080: BTEXN								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	----	<0.2
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	----	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	----	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	<0.5	----	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	----	<0.5
^ Sum of BTEX	----	0.2	mg/kg	<0.2	<0.2	<0.2	----	<0.2
^ Total Xylenes	----	0.5	mg/kg	<0.5	<0.5	<0.5	----	<0.5
Naphthalene	91-20-3	1	mg/kg	<1	<1	<1	----	<1
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	5.0	µg/kg	----	<5.0	<5.0	----	<5.0
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	5.0	µg/kg	----	<5.0	<5.0	----	<5.0
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	5.0	µg/kg	----	<5.0	<5.0	----	<5.0
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	5.0	µg/kg	----	<5.0	<5.0	----	<5.0
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	5.0	µg/kg	----	<5.0	<5.0	----	<5.0
Perfluorodecane sulfonic acid (PFDS)	335-77-3	5.0	µg/kg	----	<5.0	<5.0	----	<5.0
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	5	µg/kg	----	<5	<5	----	<5
Perfluoropentanoic acid (PFPeA)	2706-90-3	5.0	µg/kg	----	<5.0	<5.0	----	<5.0
Perfluorohexanoic acid (PFHxA)	307-24-4	5.0	µg/kg	----	<5.0	<5.0	----	<5.0
Perfluoroheptanoic acid (PFHpA)	375-85-9	5.0	µg/kg	----	<5.0	<5.0	----	<5.0
Perfluorooctanoic acid (PFOA)	335-67-1	5.0	µg/kg	----	<5.0	<5.0	----	<5.0
Perfluorononanoic acid (PFNA)	375-95-1	5.0	µg/kg	----	<5.0	<5.0	----	<5.0
Perfluorodecanoic acid (PFDA)	335-76-2	5.0	µg/kg	----	<5.0	<5.0	----	<5.0
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	5.0	µg/kg	----	<5.0	<5.0	----	<5.0

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH125_0.5	BUR_BH125_5.0	BUR_BH101_0.1	BUR_BH101_2.0	BUR_BH112_0.2
			Sampling date / time	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-038	ES2146990-039	ES2146990-040	ES2146990-042	ES2146990-043
				Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorododecanoic acid (PFDoDA)	307-55-1	5.0	µg/kg	----	<5.0	<5.0	----	<5.0
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	5.0	µg/kg	----	<5.0	<5.0	----	<5.0
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	5.0	µg/kg	----	<5.0	<5.0	----	<5.0
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	5.0	µg/kg	----	<5.0	<5.0	----	<5.0
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	5.0	µg/kg	----	<5.0	<5.0	----	<5.0
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	5.0	µg/kg	----	<5.0	<5.0	----	<5.0
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	5.0	µg/kg	----	<5.0	<5.0	----	<5.0
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	5.0	µg/kg	----	<5.0	<5.0	----	<5.0
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	5.0	µg/kg	----	<5.0	<5.0	----	<5.0
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	5.0	µg/kg	----	<5.0	<5.0	----	<5.0
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	5.0	µg/kg	----	<5.0	<5.0	----	<5.0
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	5.0	µg/kg	----	<5.0	<5.0	----	<5.0
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	5.0	µg/kg	----	<5.0	<5.0	----	<5.0
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	5.0	µg/kg	----	<5.0	<5.0	----	<5.0
EP231P: PFAS Sums								
Sum of PFAS	----	5.0	µg/kg	----	<5.0	<5.0	----	<5.0
Sum of PFHxS and PFOS	355-46-4/1763-23-1	5.0	µg/kg	----	<5.0	<5.0	----	<5.0

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH125_0.5	BUR_BH125_5.0	BUR_BH101_0.1	BUR_BH101_2.0	BUR_BH112_0.2
			Sampling date / time	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-038	ES2146990-039	ES2146990-040	ES2146990-042	ES2146990-043
				Result	Result	Result	Result	Result
EP231P: PFAS Sums - Continued								
Sum of PFAS (WA DER List)	----	5.0	µg/kg	----	<5.0	<5.0	----	<5.0
EP066S: PCB Surrogate								
Decachlorobiphenyl	2051-24-3	0.1	%	95.0	93.6	92.4	----	101
EP068S: Organochlorine Pesticide Surrogate								
Dibromo-DDE	21655-73-2	0.05	%	99.4	96.0	82.7	----	92.3
EP068T: Organophosphorus Pesticide Surrogate								
DEF	78-48-8	0.05	%	100	90.3	93.8	----	98.4
EP074S: VOC Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.5	%	85.3	----	101	105	----
Toluene-D8	2037-26-5	0.5	%	93.7	----	115	101	----
4-Bromofluorobenzene	460-00-4	0.5	%	85.4	----	103	98.2	----
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.5	%	82.5	80.9	84.8	----	83.7
2-Chlorophenol-D4	93951-73-6	0.5	%	85.9	84.5	86.4	----	87.5
2.4.6-Tribromophenol	118-79-6	0.5	%	87.3	84.1	84.2	----	86.5
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.5	%	93.4	91.4	93.1	----	94.3
Anthracene-d10	1719-06-8	0.5	%	103	99.2	99.0	----	102
4-Terphenyl-d14	1718-51-0	0.5	%	89.8	87.8	89.9	----	91.5
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	82.9	92.9	98.2	----	89.1
Toluene-D8	2037-26-5	0.2	%	85.0	101	105	----	98.7
4-Bromofluorobenzene	460-00-4	0.2	%	78.6	82.6	94.2	----	96.4
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	----	94.5	104	----	104
13C8-PFOA	----	0.0002	%	----	100	99.0	----	106

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH112_0.5	BUR_BH112_5.0	BUR_BH116_0.2	D07_20211221	BUR_BH116_0.5
			Sampling date / time	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-044	ES2146990-046	ES2146990-047	ES2146990-048	ES2146990-049
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	0.1	%	----	30.5	25.5	21.2	----
Moisture Content	----	1.0	%	28.8	----	----	----	22.2
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	6	6	8	16	6
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg	29	11	21	21	18
Copper	7440-50-8	5	mg/kg	11	27	132	215	12
Lead	7439-92-1	5	mg/kg	18	18	746	890	55
Nickel	7440-02-0	2	mg/kg	<2	7	13	16	3
Zinc	7440-66-6	5	mg/kg	<5	37	633	874	515
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.4	0.4	<0.1
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Total Chlordane (sum)	----	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH112_0.5	BUR_BH112_5.0	BUR_BH116_0.2	D07_20211221	BUR_BH116_0.5
			Sampling date / time	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-044	ES2146990-046	ES2146990-047	ES2146990-048	ES2146990-049
				Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued								
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
EP068B: Organophosphorus Pesticides (OP)								
Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
EP074A: Monocyclic Aromatic Hydrocarbons								
Styrene	100-42-5	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
Isopropylbenzene	98-82-8	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
n-Propylbenzene	103-65-1	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
sec-Butylbenzene	135-98-8	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
tert-Butylbenzene	98-06-6	0.5	mg/kg	<0.5	<0.5	----	----	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH112_0.5	BUR_BH112_5.0	BUR_BH116_0.2	D07_20211221	BUR_BH116_0.5
			Sampling date / time	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-044	ES2146990-046	ES2146990-047	ES2146990-048	ES2146990-049
				Result	Result	Result	Result	Result
EP074A: Monocyclic Aromatic Hydrocarbons - Continued								
p-Isopropyltoluene	99-87-6	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
n-Butylbenzene	104-51-8	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
EP074B: Oxygenated Compounds								
Vinyl Acetate	108-05-4	5	mg/kg	<5	<5	----	----	<5
2-Butanone (MEK)	78-93-3	5	mg/kg	<5	<5	----	----	<5
4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	<5	<5	----	----	<5
2-Hexanone (MBK)	591-78-6	5	mg/kg	<5	<5	----	----	<5
EP074C: Sulfonated Compounds								
Carbon disulfide	75-15-0	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
EP074D: Fumigants								
2.2-Dichloropropane	594-20-7	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
1.2-Dichloropropane	78-87-5	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
EP074E: Halogenated Aliphatic Compounds								
Dichlorodifluoromethane	75-71-8	5	mg/kg	<5	<5	----	----	<5
Chloromethane	74-87-3	5	mg/kg	<5	<5	----	----	<5
Vinyl chloride	75-01-4	5	mg/kg	<5	<5	----	----	<5
Bromomethane	74-83-9	5	mg/kg	<5	<5	----	----	<5
Chloroethane	75-00-3	5	mg/kg	<5	<5	----	----	<5
Trichlorofluoromethane	75-69-4	5	mg/kg	<5	<5	----	----	<5
1.1-Dichloroethene	75-35-4	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
Iodomethane	74-88-4	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
1.1-Dichloroethane	75-34-3	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
1.1-Dichloropropylene	563-58-6	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
Carbon Tetrachloride	56-23-5	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
1.2-Dichloroethane	107-06-2	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
Trichloroethene	79-01-6	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
Dibromomethane	74-95-3	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	<0.5	<0.5	----	----	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH112_0.5	BUR_BH112_5.0	BUR_BH116_0.2	D07_20211221	BUR_BH116_0.5
			Sampling date / time	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-044	ES2146990-046	ES2146990-047	ES2146990-048	ES2146990-049
				Result	Result	Result	Result	Result
EP074E: Halogenated Aliphatic Compounds - Continued								
1.3-Dichloropropane	142-28-9	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
Tetrachloroethene	127-18-4	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
Pentachloroethane	76-01-7	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
EP074F: Halogenated Aromatic Compounds								
Chlorobenzene	108-90-7	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
Bromobenzene	108-86-1	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
2-Chlorotoluene	95-49-8	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
4-Chlorotoluene	106-43-4	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
EP074G: Trihalomethanes								
Chloroform	67-66-3	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
Bromodichloromethane	75-27-4	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
Dibromochloromethane	124-48-1	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
Bromoform	75-25-2	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
EP074H: Naphthalene								
Naphthalene	91-20-3	1	mg/kg	<1	<1	----	----	<1
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	**1.1**	**0.7**	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	**4.4**	**3.0**	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	**1.9**	**1.0**	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	**32.6**	**17.0**	<0.5
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	**8.4**	**4.3**	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH112_0.5	BUR_BH112_5.0	BUR_BH116_0.2	D07_20211221	BUR_BH116_0.5
			Sampling date / time	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-044	ES2146990-046	ES2146990-047	ES2146990-048	ES2146990-049
				Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued								
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	**38.8**	**25.5**	<0.5
Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	**34.8**	**23.6**	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	**16.1**	**11.1**	<0.5
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	**14.4**	**10.2**	<0.5
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	**17.2**	**13.5**	<0.5
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	**6.8**	**4.8**	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	**14.5**	**11.1**	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	**7.3**	**5.8**	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	**1.8**	**1.4**	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	**8.0**	**6.5**	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	**208**	**140**	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	**21.3**	**16.2**	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	**0.6**	**0.6**	**21.3**	**16.2**	**0.6**
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	**1.2**	**1.2**	**21.3**	**16.2**	**1.2**
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	10	mg/kg	<10	<10	<10	<10	<10
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
C15 - C28 Fraction	----	100	mg/kg	<100	<100	**440**	**330**	<100
C29 - C36 Fraction	----	100	mg/kg	<100	<100	**290**	**230**	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	**730**	**560**	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	<10	<10	<10
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	<10	<10	<10	<10
>C10 - C16 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
>C16 - C34 Fraction	----	100	mg/kg	<100	<100	**630**	**490**	<100
>C34 - C40 Fraction	----	100	mg/kg	<100	<100	**200**	**170**	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	**830**	**660**	<50
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	<50	<50	<50	<50
EP080: BTEXN								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH112_0.5	BUR_BH112_5.0	BUR_BH116_0.2	D07_20211221	BUR_BH116_0.5
			Sampling date / time	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-044	ES2146990-046	ES2146990-047	ES2146990-048	ES2146990-049
				Result	Result	Result	Result	Result
EP080: BTEXN - Continued								
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of BTEX	----	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
^ Total Xylenes	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	91-20-3	1	mg/kg	<1	<1	<1	<1	<1
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	5.0	µg/kg	----	<5.0	<5.0	<5.0	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	5.0	µg/kg	----	<5.0	<5.0	<5.0	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	5.0	µg/kg	----	<5.0	<5.0	<5.0	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	5.0	µg/kg	----	<5.0	<5.0	<5.0	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	5.0	µg/kg	----	<5.0	<5.0	<5.0	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	5.0	µg/kg	----	<5.0	<5.0	<5.0	----
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	5	µg/kg	----	<5	<5	<5	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	5.0	µg/kg	----	<5.0	<5.0	<5.0	----
Perfluorohexanoic acid (PFHxA)	307-24-4	5.0	µg/kg	----	<5.0	<5.0	<5.0	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	5.0	µg/kg	----	<5.0	<5.0	<5.0	----
Perfluorooctanoic acid (PFOA)	335-67-1	5.0	µg/kg	----	<5.0	<5.0	<5.0	----
Perfluorononanoic acid (PFNA)	375-95-1	5.0	µg/kg	----	<5.0	<5.0	<5.0	----
Perfluorodecanoic acid (PFDA)	335-76-2	5.0	µg/kg	----	<5.0	<5.0	<5.0	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	5.0	µg/kg	----	<5.0	<5.0	<5.0	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	5.0	µg/kg	----	<5.0	<5.0	<5.0	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	5.0	µg/kg	----	<5.0	<5.0	<5.0	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	5.0	µg/kg	----	<5.0	<5.0	<5.0	----
EP231C: Perfluoroalkyl Sulfonamides								

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH112_0.5	BUR_BH112_5.0	BUR_BH116_0.2	D07_20211221	BUR_BH116_0.5
			Sampling date / time	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-044	ES2146990-046	ES2146990-047	ES2146990-048	ES2146990-049
				Result	Result	Result	Result	Result
EP231C: Perfluoroalkyl Sulfonamides - Continued								
Perfluorooctane sulfonamide (FOSA)	754-91-6	5.0	µg/kg	----	<5.0	<5.0	<5.0	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	5.0	µg/kg	----	<5.0	<5.0	<5.0	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	5.0	µg/kg	----	<5.0	<5.0	<5.0	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	5.0	µg/kg	----	<5.0	<5.0	<5.0	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	5.0	µg/kg	----	<5.0	<5.0	<5.0	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	5.0	µg/kg	----	<5.0	<5.0	<5.0	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	5.0	µg/kg	----	<5.0	<5.0	<5.0	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	5.0	µg/kg	----	<5.0	<5.0	<5.0	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	5.0	µg/kg	----	<5.0	<5.0	<5.0	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	5.0	µg/kg	----	<5.0	<5.0	<5.0	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	5.0	µg/kg	----	<5.0	<5.0	<5.0	----
EP231P: PFAS Sums								
Sum of PFAS	----	5.0	µg/kg	----	<5.0	<5.0	<5.0	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	5.0	µg/kg	----	<5.0	<5.0	<5.0	----
Sum of PFAS (WA DER List)	----	5.0	µg/kg	----	<5.0	<5.0	<5.0	----
EP066S: PCB Surrogate								
Decachlorobiphenyl	2051-24-3	0.1	%	**111**	**86.5**	**79.4**	**89.6**	**109**
EP068S: Organochlorine Pesticide Surrogate								
Dibromo-DDE	21655-73-2	0.05	%	**94.5**	**96.0**	**78.8**	**74.1**	**124**
EP068T: Organophosphorus Pesticide Surrogate								

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH112_0.5	BUR_BH112_5.0	BUR_BH116_0.2	D07_20211221	BUR_BH116_0.5
			Sampling date / time	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-044	ES2146990-046	ES2146990-047	ES2146990-048	ES2146990-049
				Result	Result	Result	Result	Result
EP068T: Organophosphorus Pesticide Surrogate - Continued								
DEF	78-48-8	0.05	%	91.8	91.1	126	120	127
EP074S: VOC Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.5	%	83.2	106	----	----	92.4
Toluene-D8	2037-26-5	0.5	%	93.2	113	----	----	103
4-Bromofluorobenzene	460-00-4	0.5	%	83.5	115	----	----	95.7
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.5	%	97.1	86.5	81.0	86.6	92.3
2-Chlorophenol-D4	93951-73-6	0.5	%	98.2	89.4	83.3	90.6	97.5
2.4.6-Tribromophenol	118-79-6	0.5	%	92.5	85.1	86.3	97.2	99.6
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.5	%	95.9	95.9	91.1	99.3	97.1
Anthracene-d10	1719-06-8	0.5	%	93.2	102	92.4	102	95.8
4-Terphenyl-d14	1718-51-0	0.5	%	103	93.0	90.0	97.4	100
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	81.0	104	84.4	88.9	90.0
Toluene-D8	2037-26-5	0.2	%	84.7	103	89.5	82.0	93.5
4-Bromofluorobenzene	460-00-4	0.2	%	76.7	105	85.3	89.8	88.8
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	----	84.5	98.0	103	----
13C8-PFOA	----	0.0002	%	----	102	100	99.5	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH116_3.0	TB	Trip Spike Control 22	----	----
			Sampling date / time	21-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	----	----
Compound	CAS Number	LOR	Unit	ES2146990-050	ES2146990-053	ES2146990-054	--------	--------
				Result	Result	Result	----	----
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	0.1	%	**11.5**	----	----	----	----
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	**7**	----	----	----	----
Cadmium	7440-43-9	1	mg/kg	<1	----	----	----	----
Chromium	7440-47-3	2	mg/kg	**8**	----	----	----	----
Copper	7440-50-8	5	mg/kg	**30**	----	----	----	----
Lead	7439-92-1	5	mg/kg	**18**	----	----	----	----
Nickel	7440-02-0	2	mg/kg	<2	----	----	----	----
Zinc	7440-66-6	5	mg/kg	**10**	----	----	----	----
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	----	----	----	----
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	----	----	----	----
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	----	----	----	----
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	----	----	----	----
beta-BHC	319-85-7	0.05	mg/kg	<0.05	----	----	----	----
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	----	----	----	----
delta-BHC	319-86-8	0.05	mg/kg	<0.05	----	----	----	----
Heptachlor	76-44-8	0.05	mg/kg	<0.05	----	----	----	----
Aldrin	309-00-2	0.05	mg/kg	<0.05	----	----	----	----
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	----	----	----	----
^ Total Chlordane (sum)	----	0.05	mg/kg	<0.05	----	----	----	----
trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	----	----	----	----
alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	----	----	----	----
cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	----	----	----	----
Dieldrin	60-57-1	0.05	mg/kg	<0.05	----	----	----	----
4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	----	----	----	----
Endrin	72-20-8	0.05	mg/kg	<0.05	----	----	----	----
beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	----	----	----	----
^ Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	----	----	----	----
4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	----	----	----	----
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	----	----	----	----
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	----	----	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH116_3.0	TB	Trip Spike Control 22	----	----
			Sampling date / time	21-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	----	----
Compound	CAS Number	LOR	Unit	ES2146990-050	ES2146990-053	ES2146990-054	--------	--------
				Result	Result	Result	----	----
EP068A: Organochlorine Pesticides (OC) - Continued								
4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	----	----	----	----
Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	----	----	----	----
Methoxychlor	72-43-5	0.2	mg/kg	<0.2	----	----	----	----
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.05	----	----	----	----
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.05	mg/kg	<0.05	----	----	----	----
EP068B: Organophosphorus Pesticides (OP)								
Dichlorvos	62-73-7	0.05	mg/kg	<0.05	----	----	----	----
Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	----	----	----	----
Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	----	----	----	----
Dimethoate	60-51-5	0.05	mg/kg	<0.05	----	----	----	----
Diazinon	333-41-5	0.05	mg/kg	<0.05	----	----	----	----
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	----	----	----	----
Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	----	----	----	----
Malathion	121-75-5	0.05	mg/kg	<0.05	----	----	----	----
Fenthion	55-38-9	0.05	mg/kg	<0.05	----	----	----	----
Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	----	----	----	----
Parathion	56-38-2	0.2	mg/kg	<0.2	----	----	----	----
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	----	----	----	----
Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	----	----	----	----
Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	----	----	----	----
Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	----	----	----	----
Prothiofos	34643-46-4	0.05	mg/kg	<0.05	----	----	----	----
Ethion	563-12-2	0.05	mg/kg	<0.05	----	----	----	----
Carbophenothion	786-19-6	0.05	mg/kg	<0.05	----	----	----	----
Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	----	----	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	----	----	----	----
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	----	----	----	----
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	----	----	----	----
Fluorene	86-73-7	0.5	mg/kg	<0.5	----	----	----	----
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	----	----	----	----
Anthracene	120-12-7	0.5	mg/kg	<0.5	----	----	----	----
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	----	----	----	----
Pyrene	129-00-0	0.5	mg/kg	<0.5	----	----	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH116_3.0	TB	Trip Spike Control 22	----	----
			Sampling date / time	21-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	----	----
Compound	CAS Number	LOR	Unit	ES2146990-050	ES2146990-053	ES2146990-054	--------	--------
				Result	Result	Result	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued								
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	----	----	----	----
Chrysene	218-01-9	0.5	mg/kg	<0.5	----	----	----	----
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	----	----	----	----
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	----	----	----	----
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	----	----	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	----	----	----	----
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	----	----	----	----
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	----	----	----	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	----	----	----	----
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	----	----	----	----
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	**0.6**	----	----	----	----
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	**1.2**	----	----	----	----
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	10	mg/kg	<10	<10	----	----	----
C10 - C14 Fraction	----	50	mg/kg	<50	----	----	----	----
C15 - C28 Fraction	----	100	mg/kg	<100	----	----	----	----
C29 - C36 Fraction	----	100	mg/kg	<100	----	----	----	----
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	----	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	----	----	----
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	<10	----	----	----
>C10 - C16 Fraction	----	50	mg/kg	<50	----	----	----	----
>C16 - C34 Fraction	----	100	mg/kg	<100	----	----	----	----
>C34 - C40 Fraction	----	100	mg/kg	<100	----	----	----	----
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	----	----	----	----
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	----	----	----	----
EP080: BTEXN								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	----	----
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	**17.7**	----	----
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	**3.1**	----	----
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	**19.1**	----	----
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	**7.4**	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH116_3.0	TB	Trip Spike Control 22	----	----
			Sampling date / time	21-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	----	----
Compound	CAS Number	LOR	Unit	ES2146990-050	ES2146990-053	ES2146990-054	--------	--------
				Result	Result	Result	----	----
EP080: BTEXN - Continued								
^ **Sum of BTEX**	----	0.2	mg/kg	<0.2	<0.2	**47.3**	----	----
^ **Total Xylenes**	----	0.5	mg/kg	<0.5	<0.5	**26.5**	----	----
Naphthalene	91-20-3	1	mg/kg	<1	<1	<1	----	----
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	5.0	µg/kg	<5.0	----	----	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	5.0	µg/kg	<5.0	----	----	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	5.0	µg/kg	<5.0	----	----	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	5.0	µg/kg	<5.0	----	----	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	5.0	µg/kg	<5.0	----	----	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	5.0	µg/kg	<5.0	----	----	----	----
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	5	µg/kg	<5	----	----	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	5.0	µg/kg	<5.0	----	----	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	5.0	µg/kg	<5.0	----	----	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	5.0	µg/kg	<5.0	----	----	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	5.0	µg/kg	<5.0	----	----	----	----
Perfluorononanoic acid (PFNA)	375-95-1	5.0	µg/kg	<5.0	----	----	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	5.0	µg/kg	<5.0	----	----	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	5.0	µg/kg	<5.0	----	----	----	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	5.0	µg/kg	<5.0	----	----	----	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	5.0	µg/kg	<5.0	----	----	----	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	5.0	µg/kg	<5.0	----	----	----	----
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	5.0	µg/kg	<5.0	----	----	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BUR_BH116_3.0	TB	Trip Spike Control 22	----	----
				Sampling date / time	21-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	----	----
Compound	CAS Number	LOR	Unit		ES2146990-050	ES2146990-053	ES2146990-054	--------	--------
					Result	Result	Result	----	----
EP231C: Perfluoroalkyl Sulfonamides - Continued									
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	5.0	µg/kg		<5.0	----	----	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	5.0	µg/kg		<5.0	----	----	----	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	5.0	µg/kg		<5.0	----	----	----	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	5.0	µg/kg		<5.0	----	----	----	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	5.0	µg/kg		<5.0	----	----	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	5.0	µg/kg		<5.0	----	----	----	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	5.0	µg/kg		<5.0	----	----	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	5.0	µg/kg		<5.0	----	----	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	5.0	µg/kg		<5.0	----	----	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	5.0	µg/kg		<5.0	----	----	----	----
EP231P: PFAS Sums									
Sum of PFAS	----	5.0	µg/kg		<5.0	----	----	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	5.0	µg/kg		<5.0	----	----	----	----
Sum of PFAS (WA DER List)	----	5.0	µg/kg		<5.0	----	----	----	----
EP066S: PCB Surrogate									
Decachlorobiphenyl	2051-24-3	0.1	%		**127**	----	----	----	----
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%		**97.3**	----	----	----	----
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%		**67.2**	----	----	----	----
EP075(SIM)S: Phenolic Compound Surrogates									

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BUR_BH116_3.0	TB	Trip Spike Control 22	----	----
				Sampling date / time	21-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	----	----
Compound	CAS Number	LOR	Unit		ES2146990-050	ES2146990-053	ES2146990-054	--------	--------
					Result	Result	Result	----	----
EP075(SIM)S: Phenolic Compound Surrogates - Continued									
Phenol-d6	13127-88-3	0.5	%		**87.6**	----	----	----	----
2-Chlorophenol-D4	93951-73-6	0.5	%		**85.2**	----	----	----	----
2.4.6-Tribromophenol	118-79-6	0.5	%		**73.2**	----	----	----	----
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%		**93.6**	----	----	----	----
Anthracene-d10	1719-06-8	0.5	%		**92.2**	----	----	----	----
4-Terphenyl-d14	1718-51-0	0.5	%		**89.2**	----	----	----	----
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	0.2	%		**82.6**	**92.2**	**91.8**	----	----
Toluene-D8	2037-26-5	0.2	%		**87.3**	**90.1**	**94.5**	----	----
4-Bromofluorobenzene	460-00-4	0.2	%		**88.4**	**92.9**	**91.9**	----	----
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.0002	%		**65.5**	----	----	----	----
13C8-PFOA	----	0.0002	%		**102**	----	----	----	----

Analytical Results

Sub-Matrix: SOLID (Matrix: SOLID)			Sample ID	BUR_BH116_0.2 ACM	----	----	----	----
			Sampling date / time	21-Dec-2021 00:00	----	----	----	----
Compound	CAS Number	LOR	Unit	ES2146990-051	--------	--------	--------	--------
				Result	----	----	----	----
EA200: AS 4964 - 2004 Identification of Asbestos in bulk samples								
Asbestos Detected	1332-21-4	0.1	g/kg	**Yes**	----	----	----	----
Asbestos Type	1332-21-4	-	--	**Ch + Am + Cr**	----	----	----	----
Asbestos (Trace)	1332-21-4	5	Fibres	**N/A**	----	----	----	----
Sample weight (dry)	----	0.01	g	**60.3**	----	----	----	----
Synthetic Mineral Fibre	----	0.1	g/kg	**No**	----	----	----	----
Organic Fibre	----	0.1	g/kg	**No**	----	----	----	----
APPROVED IDENTIFIER:	----	-	--	**A. SMYLIE**	----	----	----	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	R04_20211220	R05_20211221	----	----	----
			Sampling date / time	20-Dec-2021 00:00	21-Dec-2021 00:00	----	----	----
Compound	CAS Number	LOR	Unit	ES2146990-024	ES2146990-025	--------	--------	--------
				Result	Result	----	----	----
EG020T: Total Metals by ICP-MS								
Arsenic	7440-38-2	0.001	mg/L	<0.001	<0.001	----	----	----
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	----	----	----
Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	----	----	----
Copper	7440-50-8	0.001	mg/L	<0.001	<0.001	----	----	----
Nickel	7440-02-0	0.001	mg/L	<0.001	<0.001	----	----	----
Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	----	----	----
Zinc	7440-66-6	0.005	mg/L	<0.005	<0.005	----	----	----
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	----	----	----
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	20	µg/L	<20	<20	----	----	----
C10 - C14 Fraction	----	50	µg/L	<50	<50	----	----	----
C15 - C28 Fraction	----	100	µg/L	<100	<100	----	----	----
C29 - C36 Fraction	----	50	µg/L	<50	<50	----	----	----
^ **C10 - C36 Fraction (sum)**	----	50	µg/L	<50	<50	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	20	µg/L	<20	<20	----	----	----
^ **C6 - C10 Fraction minus BTEX (F1)**	C6_C10-BTEX	20	µg/L	<20	<20	----	----	----
>C10 - C16 Fraction	----	100	µg/L	<100	<100	----	----	----
>C16 - C34 Fraction	----	100	µg/L	<100	<100	----	----	----
>C34 - C40 Fraction	----	100	µg/L	<100	<100	----	----	----
^ **>C10 - C40 Fraction (sum)**	----	100	µg/L	<100	<100	----	----	----
^ **>C10 - C16 Fraction minus Naphthalene (F2)**	----	100	µg/L	<100	<100	----	----	----
EP080: BTEXN								
Benzene	71-43-2	1	µg/L	<1	<1	----	----	----
Toluene	108-88-3	2	µg/L	<2	<2	----	----	----
Ethylbenzene	100-41-4	2	µg/L	<2	<2	----	----	----
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	<2	----	----	----
ortho-Xylene	95-47-6	2	µg/L	<2	<2	----	----	----
^ **Total Xylenes**	----	2	µg/L	<2	<2	----	----	----
^ **Sum of BTEX**	----	1	µg/L	<1	<1	----	----	----
Naphthalene	91-20-3	5	µg/L	<5	<5	----	----	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	R04_20211220	R05_20211221	----	----	----
			Sampling date / time	20-Dec-2021 00:00	21-Dec-2021 00:00	----	----	----
Compound	CAS Number	LOR	Unit	ES2146990-024	ES2146990-025	--------	--------	--------
				Result	Result	----	----	----
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	----	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	----	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	----	----	----
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	----	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	----	----	----
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	----	----	----
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	----	----	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	----	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	----	----	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	R04_20211220	R05_20211221	----	----	----
			Sampling date / time	20-Dec-2021 00:00	21-Dec-2021 00:00	----	----	----
Compound	CAS Number	LOR	Unit	ES2146990-024	ES2146990-025	--------	--------	--------
				Result	Result	----	----	----
EP231C: Perfluoroalkyl Sulfonamides - Continued								
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	----	----	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	----	----	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.02	----	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	----	----	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	----	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	----	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	----	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	----	----	----
EP231P: PFAS Sums								
Sum of PFAS	----	0.01	µg/L	<0.01	<0.01	----	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	----	----	----
Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.01	<0.01	----	----	----
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	2	%	**115**	**81.6**	----	----	----
Toluene-D8	2037-26-5	2	%	**114**	**93.8**	----	----	----
4-Bromofluorobenzene	460-00-4	2	%	**116**	**90.4**	----	----	----
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.02	%	**109**	**104**	----	----	----
13C8-PFOA	----	0.02	%	**116**	**114**	----	----	----

Analytical Results

Descriptive Results

Sub-Matrix: **SOIL**

Method: Compound	Sample ID - Sampling date / time	Analytical Results
EA200: AS 4964 - 2004 Identification of Asbestos in Soils		
EA200: Description	BUR_BH109_0.2 - 20-Dec-2021 00:00	Soil sample.
EA200: Description	BUR_BH113_0.2 - 20-Dec-2021 00:00	Soil sample.
EA200: Description	BUR_BH114_0.2 - 20-Dec-2021 00:00	Soil sample.
EA200: Description	BUR_BH115_0.2 - 21-Dec-2021 00:00	Soil sample.
EA200: Description	BUR_BH117_0.2 - 21-Dec-2021 00:00	Soil sample.
EA200: Description	BUR_BH125_0.2 - 21-Dec-2021 00:00	Soil sample.
EA200: Description	BUR_BH101_0.1 - 21-Dec-2021 00:00	Soil sample.
EA200: Description	BUR_BH112_0.2 - 21-Dec-2021 00:00	Soil sample.

Sub-Matrix: **SOLID**

Method: Compound	Sample ID - Sampling date / time	Analytical Results
EA200: AS 4964 - 2004 Identification of Asbestos in bulk samples		
EA200: Description	BUR_BH116_0.2 ACM - 21-Dec-2021 00:00	One piece of asbestos cement sheeting approximately 140x80x5mm.

Surrogate Control Limits

Sub-Matrix: SOIL		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP066S: PCB Surrogate			
Decachlorobiphenyl	2051-24-3	39	149
EP068S: Organochlorine Pesticide Surrogate			
Dibromo-DDE	21655-73-2	49	147
EP068T: Organophosphorus Pesticide Surrogate			
DEF	78-48-8	35	143
EP074S: VOC Surrogates			
1.2-Dichloroethane-D4	17060-07-0	64	130
Toluene-D8	2037-26-5	66	136
4-Bromofluorobenzene	460-00-4	60	122
EP075(SIM)S: Phenolic Compound Surrogates			
Phenol-d6	13127-88-3	63	123
2-Chlorophenol-D4	93951-73-6	66	122
2.4.6-Tribromophenol	118-79-6	40	138
EP075(SIM)T: PAH Surrogates			
2-Fluorobiphenyl	321-60-8	70	122
Anthracene-d10	1719-06-8	66	128
4-Terphenyl-d14	1718-51-0	65	129
EP080S: TPH(V)/BTEX Surrogates			
1.2-Dichloroethane-D4	17060-07-0	73	133
Toluene-D8	2037-26-5	74	132
4-Bromofluorobenzene	460-00-4	72	130
EP231S: PFAS Surrogate			
13C4-PFOS	----	60	120
13C8-PFOA	----	60	120

Sub-Matrix: WATER		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP080S: TPH(V)/BTEX Surrogates			
1.2-Dichloroethane-D4	17060-07-0	71	137
Toluene-D8	2037-26-5	79	131
4-Bromofluorobenzene	460-00-4	70	128
EP231S: PFAS Surrogate			
13C4-PFOS	----	60	120
13C8-PFOA	----	60	120

Inter-Laboratory Testing

Analysis conducted by ALS Newcastle, NATA accreditation no. 825, site no. 1656 (Chemistry) 9854 (Biology).

(SOIL) EA200: AS 4964 - 2004 Identification of Asbestos in Soils

(SOLID) EA200: AS 4964 - 2004 Identification of Asbestos in bulk samples

QUALITY CONTROL REPORT

Work Order	: **ES2146990**	Page	: 1 of 57
Amendment	: **3**		
Client	: **ENVIRONMENTAL RESOURCES MANAGEMENT (ERM)**	Laboratory	: Environmental Division Sydney
Contact	: MS JESSICA LAWRENCE	Contact	: Customer Services ES
Address	: LEVEL 15 309 KENT STREET SYDNEY NSW AUSTRALIA 2000	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: +61 02 8584 8888	Telephone	: +61-2-8784 8555
Project	: 0577577 - Burwood	Date Samples Received	: 22-Dec-2021
Order number	: ----	Date Analysis Commenced	: 23-Dec-2021
C-O-C number	: ----	Issue Date	: 02-Feb-2022
Sampler	: TRISTAN RODRIGUES		
Site	: ----		
Quote number	: EN/114		
No. of samples received	: 58		
No. of samples analysed	: 51		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Alana Smylie	Asbestos Identifier	Newcastle - Asbestos, Mayfield West, NSW
Alex Rossi	Organic Chemist	Sydney Organics, Smithfield, NSW
Evie Sidarta	Inorganic Chemist	Sydney Inorganics, Smithfield, NSW
Franco Lentini	LCMS Coordinator	Sydney Inorganics, Smithfield, NSW
Franco Lentini	LCMS Coordinator	Sydney Organics, Smithfield, NSW
Wisam Marassa	Inorganics Coordinator	Sydney Inorganics, Smithfield, NSW

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis. Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Key : Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot
CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
RPD = Relative Percentage Difference
# = Indicates failed QC

Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 4102399)									
ES2146990-001	BUR_BH109_0.2	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	5	3	41.6	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	8	7	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	19	17	10.2	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	48	25	62.1	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	34	19	58.6	No Limit
ES2146990-011	BUR_BH110_0.5	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	38	37	4.0	0% - 50%
		EG005T: Nickel	7440-02-0	2	mg/kg	8	5	38.2	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	12	17	31.7	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	10	11	11.4	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	34	32	8.5	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	7	<5	30.1	No Limit
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 4102401)									
ES2146990-021	BUR_BH114_5.0	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	9	10	18.6	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	44	50	12.1	0% - 20%
		EG005T: Arsenic	7440-38-2	5	mg/kg	11	9	15.6	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	43	46	8.3	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	26	30	14.0	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	190	212	11.0	0% - 20%
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 4103630)									
ES2146169-001	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 4103630) - continued									
ES2146169-001	Anonymous	EG005T: Chromium	7440-47-3	2	mg/kg	14	15	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	23	24	0.0	0% - 50%
		EG005T: Arsenic	7440-38-2	5	mg/kg	8	8	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	35	39	12.1	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	27	31	11.5	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	111	108	2.9	0% - 20%
ES2146990-030	BUR_BH115_5.0	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	11	15	26.9	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	26	31	14.6	0% - 50%
		EG005T: Arsenic	7440-38-2	5	mg/kg	9	10	18.5	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	56	58	3.2	0% - 50%
		EG005T: Lead	7439-92-1	5	mg/kg	19	24	25.4	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	115	130	12.3	0% - 20%
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 4103631)									
ES2146990-040	BUR_BH101_0.1	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	17	18	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	20	24	18.4	0% - 50%
		EG005T: Arsenic	7440-38-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	22	33	39.8	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	45	57	22.7	0% - 50%
		EG005T: Zinc	7440-66-6	5	mg/kg	59	68	14.1	0% - 50%
ES2147189-001	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	6	6	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	4	4	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	9	8	0.0	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	19	21	12.5	No Limit
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 4102403)									
ES2146990-003	BUR_BH109_1.0	EA055: Moisture Content	----	0.1	%	23.3	24.1	3.5	0% - 20%
ES2146990-014	BUR_BH113_0.2	EA055: Moisture Content	----	0.1	%	19.4	18.4	4.8	0% - 50%
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 4102404)									
ES2146990-023	BUR_BH114_15.0	EA055: Moisture Content	----	0.1	%	6.3	7.2	12.7	No Limit
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 4103633)									
ES2146990-029	BUR_BH115_1.0	EA055: Moisture Content	----	0.1	%	29.3	29.2	0.4	0% - 20%
ES2146990-040	BUR_BH101_0.1	EA055: Moisture Content	----	0.1	%	12.6	13.4	6.1	0% - 20%
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 4103634)									
ES2147007-001	Anonymous	EA055: Moisture Content	----	0.1	%	14.9	12.9	14.2	0% - 50%
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 4104525)									

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 4104525) - continued									
EB2137410-021	Anonymous	EA055: Moisture Content	----	0.1	%	15.6	17.1	9.0	0% - 50%
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 4102400)									
ES2146990-001	BUR_BH109_0.2	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
ES2146990-011	BUR_BH110_0.5	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 4102402)									
ES2146990-021	BUR_BH114_5.0	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 4103629)									
ES2146169-001	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
ES2146990-030	BUR_BH115_5.0	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 4103632)									
ES2146990-040	BUR_BH101_0.1	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
ES2147189-001	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP066: Polychlorinated Biphenyls (PCB) (QC Lot: 4098563)									
ES2146990-001	BUR_BH109_0.2	EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
ES2146990-011	BUR_BH110_0.5	EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP066: Polychlorinated Biphenyls (PCB) (QC Lot: 4098659)									
ES2146990-027	BUR_BH115_0.2	EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
ES2146990-037	BUR_BH125_0.2	EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP066: Polychlorinated Biphenyls (PCB) (QC Lot: 4098680)									
ES2146990-021	BUR_BH114_5.0	EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
ES2147023-061	Anonymous	EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP066: Polychlorinated Biphenyls (PCB) (QC Lot: 4102081)									
ES2146918-001	Anonymous	EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP068A: Organochlorine Pesticides (OC) (QC Lot: 4098562)									
ES2146990-001	BUR_BH109_0.2	EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP068A: Organochlorine Pesticides (OC) (QC Lot: 4098562) - continued									
ES2146990-001	BUR_BH109_0.2	EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
ES2146990-011	BUR_BH110_0.5	EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
EP068A: Organochlorine Pesticides (OC) (QC Lot: 4098658)									
ES2146990-027	BUR_BH115_0.2	EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP068A: Organochlorine Pesticides (OC) (QC Lot: 4098658) - continued									
ES2146990-027	BUR_BH115_0.2	EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
ES2146990-037	BUR_BH125_0.2	EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
EP068A: Organochlorine Pesticides (OC) (QC Lot: 4098679)									
ES2146990-021	BUR_BH114_5.0	EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP068A: Organochlorine Pesticides (OC) (QC Lot: 4098679) - continued									
ES2146990-021	BUR_BH114_5.0	EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
ES2147023-061	Anonymous	EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
EP068A: Organochlorine Pesticides (OC) (QC Lot: 4102080)									
ES2146918-001	Anonymous	EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP068A: Organochlorine Pesticides (OC) (QC Lot: 4102080) - continued									
ES2146918-001	Anonymous	EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
EP068B: Organophosphorus Pesticides (OP) (QC Lot: 4098562)									
ES2146990-001	BUR_BH109_0.2	EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
ES2146990-011	BUR_BH110_0.5	EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP068B: Organophosphorus Pesticides (OP) (QC Lot: 4098562) - continued									
ES2146990-011	BUR_BH110_0.5	EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
EP068B: Organophosphorus Pesticides (OP) (QC Lot: 4098658)									
ES2146990-027	BUR_BH115_0.2	EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
ES2146990-037	BUR_BH125_0.2	EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP068B: Organophosphorus Pesticides (OP) (QC Lot: 4098658) - continued									
ES2146990-037	BUR_BH125_0.2	EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
EP068B: Organophosphorus Pesticides (OP) (QC Lot: 4098679)									
ES2146990-021	BUR_BH114_5.0	EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
ES2147023-061	Anonymous	EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP068B: Organophosphorus Pesticides (OP) (QC Lot: 4098679) - continued									
ES2147023-061	Anonymous	EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
EP068B: Organophosphorus Pesticides (OP) (QC Lot: 4102080)									
ES2146918-001	Anonymous	EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
EP074A: Monocyclic Aromatic Hydrocarbons (QC Lot: 4097168)									
ES2146990-001	BUR_BH109_0.2	EP074: Styrene	100-42-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Isopropylbenzene	98-82-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: n-Propylbenzene	103-65-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: sec-Butylbenzene	135-98-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP074A: Monocyclic Aromatic Hydrocarbons (QC Lot: 4097168) - continued									
ES2146990-001	BUR_BH109_0.2	EP074: tert-Butylbenzene	98-06-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: p-Isopropyltoluene	99-87-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: n-Butylbenzene	104-51-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
ES2146990-022	BUR_BH114_10.0	EP074: Styrene	100-42-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Isopropylbenzene	98-82-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: n-Propylbenzene	103-65-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: sec-Butylbenzene	135-98-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: tert-Butylbenzene	98-06-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: p-Isopropyltoluene	99-87-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: n-Butylbenzene	104-51-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP074A: Monocyclic Aromatic Hydrocarbons (QC Lot: 4097811)									
ES2146739-001	Anonymous	EP074: Styrene	100-42-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Isopropylbenzene	98-82-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: n-Propylbenzene	103-65-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: sec-Butylbenzene	135-98-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: tert-Butylbenzene	98-06-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: p-Isopropyltoluene	99-87-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: n-Butylbenzene	104-51-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP074B: Oxygenated Compounds (QC Lot: 4097168)									
ES2146990-001	BUR_BH109_0.2	EP074: Vinyl Acetate	108-05-4	5	mg/kg	<5	<5	0.0	No Limit
		EP074: 2-Butanone (MEK)	78-93-3	5	mg/kg	<5	<5	0.0	No Limit
		EP074: 4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	<5	<5	0.0	No Limit
		EP074: 2-Hexanone (MBK)	591-78-6	5	mg/kg	<5	<5	0.0	No Limit
ES2146990-022	BUR_BH114_10.0	EP074: Vinyl Acetate	108-05-4	5	mg/kg	<5	<5	0.0	No Limit
		EP074: 2-Butanone (MEK)	78-93-3	5	mg/kg	<5	<5	0.0	No Limit
		EP074: 4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	<5	<5	0.0	No Limit
		EP074: 2-Hexanone (MBK)	591-78-6	5	mg/kg	<5	<5	0.0	No Limit
EP074B: Oxygenated Compounds (QC Lot: 4097811)									
ES2146739-001	Anonymous	EP074: Vinyl Acetate	108-05-4	5	mg/kg	<5	<5	0.0	No Limit
		EP074: 2-Butanone (MEK)	78-93-3	5	mg/kg	<5	<5	0.0	No Limit
		EP074: 4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	<5	<5	0.0	No Limit
		EP074: 2-Hexanone (MBK)	591-78-6	5	mg/kg	<5	<5	0.0	No Limit
EP074C: Sulfonated Compounds (QC Lot: 4097168)									
ES2146990-001	BUR_BH109_0.2	EP074: Carbon disulfide	75-15-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
ES2146990-022	BUR_BH114_10.0	EP074: Carbon disulfide	75-15-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP074C: Sulfonated Compounds (QC Lot: 4097811)									
ES2146739-001	Anonymous	EP074: Carbon disulfide	75-15-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP074D: Fumigants (QC Lot: 4097168)									
ES2146990-001	BUR_BH109_0.2	EP074: 2.2-Dichloropropane	594-20-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dichloropropane	78-87-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
ES2146990-022	BUR_BH114_10.0	EP074: 2.2-Dichloropropane	594-20-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dichloropropane	78-87-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP074D: Fumigants (QC Lot: 4097811)									
ES2146739-001	Anonymous	EP074: 2.2-Dichloropropane	594-20-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dichloropropane	78-87-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP074E: Halogenated Aliphatic Compounds (QC Lot: 4097168)									
ES2146990-001	BUR_BH109_0.2	EP074: 1.1-Dichloroethene	75-35-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Iodomethane	74-88-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1-Dichloroethane	75-34-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1-Dichloropropylene	563-58-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Carbon Tetrachloride	56-23-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dichloroethane	107-06-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Trichloroethene	79-01-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Dibromomethane	74-95-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.3-Dichloropropane	142-28-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Tetrachloroethene	127-18-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Pentachloroethane	76-01-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP074E: Halogenated Aliphatic Compounds (QC Lot: 4097168) - continued									
ES2146990-001	BUR_BH109_0.2	EP074: Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Dichlorodifluoromethane	75-71-8	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Chloromethane	74-87-3	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Vinyl chloride	75-01-4	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Bromomethane	74-83-9	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Chloroethane	75-00-3	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Trichlorofluoromethane	75-69-4	5	mg/kg	<5	<5	0.0	No Limit
ES2146990-022	BUR_BH114_10.0	EP074: 1.1-Dichloroethene	75-35-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Iodomethane	74-88-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1-Dichloroethane	75-34-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1-Dichloropropylene	563-58-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Carbon Tetrachloride	56-23-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dichloroethane	107-06-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Trichloroethene	79-01-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Dibromomethane	74-95-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.3-Dichloropropane	142-28-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Tetrachloroethene	127-18-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Pentachloroethane	76-01-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Dichlorodifluoromethane	75-71-8	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Chloromethane	74-87-3	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Vinyl chloride	75-01-4	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Bromomethane	74-83-9	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Chloroethane	75-00-3	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Trichlorofluoromethane	75-69-4	5	mg/kg	<5	<5	0.0	No Limit
EP074E: Halogenated Aliphatic Compounds (QC Lot: 4097811)									
ES2146739-001	Anonymous	EP074: 1.1-Dichloroethene	75-35-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Iodomethane	74-88-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1-Dichloroethane	75-34-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP074E: Halogenated Aliphatic Compounds (QC Lot: 4097811) - continued									
ES2146739-001	Anonymous	EP074: cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1-Dichloropropylene	563-58-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Carbon Tetrachloride	56-23-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dichloroethane	107-06-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Trichloroethene	79-01-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Dibromomethane	74-95-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.3-Dichloropropane	142-28-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Tetrachloroethene	127-18-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Pentachloroethane	76-01-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Dichlorodifluoromethane	75-71-8	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Chloromethane	74-87-3	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Vinyl chloride	75-01-4	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Bromomethane	74-83-9	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Chloroethane	75-00-3	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Trichlorofluoromethane	75-69-4	5	mg/kg	<5	<5	0.0	No Limit
EP074F: Halogenated Aromatic Compounds (QC Lot: 4097168)									
ES2146990-001	BUR_BH109_0.2	EP074: Chlorobenzene	108-90-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Bromobenzene	108-86-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 2-Chlorotoluene	95-49-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 4-Chlorotoluene	106-43-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
ES2146990-022	BUR_BH114_10.0	EP074: Chlorobenzene	108-90-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Bromobenzene	108-86-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 2-Chlorotoluene	95-49-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 4-Chlorotoluene	106-43-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP074F: Halogenated Aromatic Compounds (QC Lot: 4097168) - continued									
ES2146990-022	BUR_BH114_10.0	EP074: 1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP074F: Halogenated Aromatic Compounds (QC Lot: 4097811)									
ES2146739-001	Anonymous	EP074: Chlorobenzene	108-90-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Bromobenzene	108-86-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 2-Chlorotoluene	95-49-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 4-Chlorotoluene	106-43-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP074G: Trihalomethanes (QC Lot: 4097168)									
ES2146990-001	BUR_BH109_0.2	EP074: Chloroform	67-66-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Bromodichloromethane	75-27-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Dibromochloromethane	124-48-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Bromoform	75-25-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
ES2146990-022	BUR_BH114_10.0	EP074: Chloroform	67-66-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Bromodichloromethane	75-27-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Dibromochloromethane	124-48-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Bromoform	75-25-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP074G: Trihalomethanes (QC Lot: 4097811)									
ES2146739-001	Anonymous	EP074: Chloroform	67-66-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Bromodichloromethane	75-27-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Dibromochloromethane	124-48-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Bromoform	75-25-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP074H: Naphthalene (QC Lot: 4097168)									
ES2146990-001	BUR_BH109_0.2	EP074: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
ES2146990-022	BUR_BH114_10.0	EP074: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
EP074H: Naphthalene (QC Lot: 4097811)									
ES2146739-001	Anonymous	EP074: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 4098561)									
ES2146990-001	BUR_BH109_0.2	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 4098561) - continued									
ES2146990-001	BUR_BH109_0.2	EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
ES2146990-011	BUR_BH110_0.5	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 4098657)									
ES2146990-027	BUR_BH115_0.2	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	0.6	0.7	21.3	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	3.6	4.1	11.8	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 4098657) - continued									
ES2146990-027	BUR_BH115_0.2	EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	1.0	1.1	9.7	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	7.1	7.9	10.6	0% - 50%
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	6.7	6.8	2.4	0% - 50%
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	3.1	3.5	12.3	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	2.5	2.7	6.9	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	3.1	3.4	11.7	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	1.4	1.8	28.2	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	2.6	2.8	6.8	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	1.5	1.7	13.5	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	1.7	1.8	0.0	No Limit
		EP075(SIM): Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	34.9	38.3	9.3	0% - 20%
		EP075(SIM): Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	3.6	3.9	9.0	No Limit
ES2146990-037	BUR_BH125_0.2	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	0.7	0.7	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	3.4	3.4	0.0	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	1.0	1.0	0.0	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	6.1	6.6	8.2	0% - 50%
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	6.1	6.5	7.5	0% - 50%
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	3.2	3.1	3.6	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	3.0	3.1	0.0	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	4.1	4.1	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	1.5	1.7	10.9	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	3.6	3.6	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	2.0	2.0	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	2.2	2.3	0.0	No Limit
		EP075(SIM): Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	36.9	38.1	3.2	0% - 20%
		EP075(SIM): Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	4.7	4.7	0.0	No Limit
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 4098678)									
ES2146990-021	BUR_BH114_5.0	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 4098678) - continued									
ES2146990-021	BUR_BH114_5.0	EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
ES2147023-061	Anonymous	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	0.9	0.8	16.8	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	2.9	2.9	0.0	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	2.6	2.8	8.2	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	1.2	1.4	11.7	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	1.2	1.3	9.5	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	2.0	2.1	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	0.7	0.7	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	1.4	1.5	8.3	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	1.1	1.2	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	1.3	1.5	12.7	No Limit
		EP075(SIM): Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	15.3	16.2	5.7	0% - 20%
		EP075(SIM): Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	1.9	2.1	7.2	No Limit
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 4102078)									
ES2147189-001	Anonymous	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 4102078) - continued									
ES2147189-001	Anonymous	EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
ES2146918-001	Anonymous	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4097167)									
ES2146990-001	BUR_BH109_0.2	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
ES2146990-022	BUR_BH114_10.0	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4097812)									
ES2146739-001	Anonymous	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4098280)									
ES2146990-002	BUR_BH109_0.5	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
ES2146990-021	BUR_BH114_5.0	EP080: C6 - C9 Fraction	----	10	mg/kg	16	13	22.1	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4098560)									
ES2146990-001	BUR_BH109_0.2	EP071: C15 - C28 Fraction	----	100	mg/kg	110	130	14.5	No Limit
		EP071: C29 - C36 Fraction	----	100	mg/kg	330	370	11.5	No Limit
		EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
ES2146990-011	BUR_BH110_0.5	EP071: C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4098656)									
ES2146990-027	BUR_BH115_0.2	EP071: C15 - C28 Fraction	----	100	mg/kg	150	160	0.0	No Limit
		EP071: C29 - C36 Fraction	----	100	mg/kg	150	150	0.0	No Limit
		EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
ES2146990-037	BUR_BH125_0.2	EP071: C15 - C28 Fraction	----	100	mg/kg	160	170	8.7	No Limit
		EP071: C29 - C36 Fraction	----	100	mg/kg	130	140	0.0	No Limit
		EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4098677)									
ES2146990-021	BUR_BH114_5.0	EP071: C15 - C28 Fraction	----	100	mg/kg	180	210	12.8	No Limit
		EP071: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
ES2147023-061	Anonymous	EP071: C15 - C28 Fraction	----	100	mg/kg	110	110	0.0	No Limit
		EP071: C29 - C36 Fraction	----	100	mg/kg	200	160	20.6	No Limit
		EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4102079)									
ES2147189-001	Anonymous	EP071: C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
ES2146918-001	Anonymous	EP071: C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4102701)									
ES2146592-002	Anonymous	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
ES2147005-001	Anonymous	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4097167)									
ES2146990-001	BUR_BH109_0.2	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
ES2146990-022	BUR_BH114_10.0	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4097812)									

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4097812) - continued									
ES2146739-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4098280)									
ES2146990-002	BUR_BH109_0.5	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
ES2146990-021	BUR_BH114_5.0	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	26	22	18.5	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4098560)									
ES2146990-001	BUR_BH109_0.2	EP071: >C16 - C34 Fraction	----	100	mg/kg	300	340	10.8	No Limit
		EP071: >C34 - C40 Fraction	----	100	mg/kg	380	440	16.2	No Limit
		EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
ES2146990-011	BUR_BH110_0.5	EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4098656)									
ES2146990-027	BUR_BH115_0.2	EP071: >C16 - C34 Fraction	----	100	mg/kg	250	260	0.0	No Limit
		EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	110	0.0	No Limit
		EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
ES2146990-037	BUR_BH125_0.2	EP071: >C16 - C34 Fraction	----	100	mg/kg	240	260	7.9	No Limit
		EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4098677)									
ES2146990-021	BUR_BH114_5.0	EP071: >C16 - C34 Fraction	----	100	mg/kg	180	210	14.0	No Limit
		EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C10 - C16 Fraction	----	50	mg/kg	70	70	0.0	No Limit
ES2147023-061	Anonymous	EP071: >C16 - C34 Fraction	----	100	mg/kg	230	200	13.0	No Limit
		EP071: >C34 - C40 Fraction	----	100	mg/kg	190	130	36.3	No Limit
		EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4102079)									
ES2147189-001	Anonymous	EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
ES2146918-001	Anonymous	EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4102701)									
ES2146592-002	Anonymous	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
ES2147005-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
EP080: BTEXN (QC Lot: 4097167)									
ES2146990-001	BUR_BH109_0.2	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP080: BTEXN (QC Lot: 4097167) - continued									
ES2146990-001	BUR_BH109_0.2	EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
ES2146990-022	BUR_BH114_10.0	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
EP080: BTEXN (QC Lot: 4097812)									
ES2146739-001	Anonymous	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
EP080: BTEXN (QC Lot: 4098280)									
ES2146990-002	BUR_BH109_0.5	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
ES2146990-021	BUR_BH114_5.0	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
EP080: BTEXN (QC Lot: 4102701)									
ES2146592-002	Anonymous	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP080: BTEXN (QC Lot: 4102701) - continued									
ES2146592-002	Anonymous	EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
ES2147005-001	Anonymous	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 4104679)									
ES2146990-001	BUR_BH109_0.2	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
ES2146990-023	BUR_BH114_15.0	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 4107614)									
ES2146990-046	BUR_BH112_5.0	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4104679)									
ES2146990-001	BUR_BH109_0.2	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4104679) - continued									
ES2146990-001	BUR_BH109_0.2	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<5 µg/kg	<0.005	0.0	No Limit
ES2146990-023	BUR_BH114_15.0	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<5 µg/kg	<0.005	0.0	No Limit
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4107614)									
ES2146990-046	BUR_BH112_5.0	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<5 µg/kg	<0.005	0.0	No Limit
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4104679)									
ES2146990-001	BUR_BH109_0.2	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
ES2146990-023	BUR_BH114_15.0	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4104679) - continued									
ES2146990-023	BUR_BH114_15.0	EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4107614)									
ES2146990-046	BUR_BH112_5.0	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4104679)									
ES2146990-001	BUR_BH109_0.2	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
ES2146990-023	BUR_BH114_15.0	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit

Sub-Matrix: **SOIL**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report					
				LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4104679) - continued									
ES2146990-023	BUR_BH114_15.0	EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4107614)									
ES2146990-046	BUR_BH112_5.0	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit

Sub-Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report					
				LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EG020T: Total Metals by ICP-MS (QC Lot: 4105888)									
ES2147090-003	Anonymous	EG020A-T: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
		EG020A-T: Arsenic	7440-38-2	0.001	mg/L	0.026	0.027	0.0	0% - 20%
		EG020A-T: Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Copper	7440-50-8	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Lead	7439-92-1	0.001	mg/L	0.001	0.004	97.8	No Limit
		EG020A-T: Nickel	7440-02-0	0.001	mg/L	0.041	0.039	5.7	0% - 20%
		EG020A-T: Zinc	7440-66-6	0.005	mg/L	0.139	0.147	5.3	0% - 20%
ES2147389-012	Anonymous	EG020A-T: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
		EG020A-T: Arsenic	7440-38-2	0.001	mg/L	0.001	0.001	0.0	No Limit
		EG020A-T: Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Copper	7440-50-8	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Nickel	7440-02-0	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Zinc	7440-66-6	0.005	mg/L	<0.005	<0.005	0.0	No Limit
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 4104356)									
ES2146869-002	Anonymous	EG035T: Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
ES2146966-001	Anonymous	EG035T: Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4100930)									
ES2146731-001	Anonymous	EP080: C6 - C9 Fraction	----	20	µg/L	<20	<20	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4102634)									
ES2146997-001	Anonymous	EP080: C6 - C9 Fraction	----	20	µg/L	40	40	0.0	No Limit
ES2146997-013	Anonymous	EP080: C6 - C9 Fraction	----	20	µg/L	<20	<20	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4100930)									
ES2146731-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	<20	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4102634)									

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4102634) - continued									
ES2146997-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	<20	0.0	No Limit
ES2146997-013	Anonymous	EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	<20	0.0	No Limit
EP080: BTEXN (QC Lot: 4100930)									
ES2146731-001	Anonymous	EP080: Benzene	71-43-2	1	µg/L	<1	<1	0.0	No Limit
		EP080: Toluene	108-88-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	2	µg/L	<2	<2	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	2	µg/L	<2	<2	0.0	No Limit
		EP080: Naphthalene	91-20-3	5	µg/L	<5	<5	0.0	No Limit
EP080: BTEXN (QC Lot: 4102634)									
ES2146997-001	Anonymous	EP080: Benzene	71-43-2	1	µg/L	<1	<1	0.0	No Limit
		EP080: Toluene	108-88-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	2	µg/L	<2	<2	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	2	µg/L	<2	<2	0.0	No Limit
		EP080: Naphthalene	91-20-3	5	µg/L	<5	<5	0.0	No Limit
ES2146997-013	Anonymous	EP080: Benzene	71-43-2	1	µg/L	<1	<1	0.0	No Limit
		EP080: Toluene	108-88-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	2	µg/L	<2	<2	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	2	µg/L	<2	<2	0.0	No Limit
		EP080: Naphthalene	91-20-3	5	µg/L	<5	<5	0.0	No Limit
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 4107171)									
ES2146990-024	R04_20211220	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4107171)									
ES2146990-024	R04_20211220	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4107171) - continued									
ES2146990-024	R04_20211220	EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	0.0	No Limit
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4107171)									
ES2146990-024	R04_20211220	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4107171)									
ES2146990-024	R04_20211220	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231P: PFAS Sums (QC Lot: 4107171)									
ES2146990-024	R04_20211220	EP231X: Sum of PFAS	----	0.01	µg/L	<0.01	<0.01	0.0	No Limit

Method Blank (MB) and Laboratory Control Sample (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Sample (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

Sub-Matrix: **SOIL**

				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4102399)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	121.1 mg/kg	89.1	88.0	113
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	0.74 mg/kg	80.0	70.0	130
EG005T: Chromium	7440-47-3	2	mg/kg	<2	19.6 mg/kg	97.2	68.0	132
EG005T: Copper	7440-50-8	5	mg/kg	<5	52.9 mg/kg	95.2	89.0	111
EG005T: Lead	7439-92-1	5	mg/kg	<5	60.8 mg/kg	88.3	82.0	119
EG005T: Nickel	7440-02-0	2	mg/kg	<2	15.3 mg/kg	89.3	80.0	120
EG005T: Zinc	7440-66-6	5	mg/kg	<5	139.3 mg/kg	82.4	66.0	133
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4102401)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	121.1 mg/kg	89.9	88.0	113
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	0.74 mg/kg	75.1	70.0	130
EG005T: Chromium	7440-47-3	2	mg/kg	<2	19.6 mg/kg	96.3	68.0	132
EG005T: Copper	7440-50-8	5	mg/kg	<5	52.9 mg/kg	89.6	89.0	111
EG005T: Lead	7439-92-1	5	mg/kg	<5	60.8 mg/kg	82.5	82.0	119
EG005T: Nickel	7440-02-0	2	mg/kg	<2	15.3 mg/kg	88.4	80.0	120
EG005T: Zinc	7440-66-6	5	mg/kg	<5	139.3 mg/kg	79.2	66.0	133
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4103630)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	121.1 mg/kg	98.4	88.0	113
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	0.74 mg/kg	90.2	70.0	130
EG005T: Chromium	7440-47-3	2	mg/kg	<2	19.6 mg/kg	103	68.0	132
EG005T: Copper	7440-50-8	5	mg/kg	<5	52.9 mg/kg	111	89.0	111
EG005T: Lead	7439-92-1	5	mg/kg	<5	60.8 mg/kg	102	82.0	119
EG005T: Nickel	7440-02-0	2	mg/kg	<2	15.3 mg/kg	100	80.0	120
EG005T: Zinc	7440-66-6	5	mg/kg	<5	139.3 mg/kg	93.5	66.0	133
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4103631)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	121.1 mg/kg	98.7	88.0	113
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	0.74 mg/kg	87.6	70.0	130
EG005T: Chromium	7440-47-3	2	mg/kg	<2	19.6 mg/kg	104	68.0	132
EG005T: Copper	7440-50-8	5	mg/kg	<5	52.9 mg/kg	109	89.0	111
EG005T: Lead	7439-92-1	5	mg/kg	<5	60.8 mg/kg	102	82.0	119
EG005T: Nickel	7440-02-0	2	mg/kg	<2	15.3 mg/kg	100	80.0	120
EG005T: Zinc	7440-66-6	5	mg/kg	<5	139.3 mg/kg	94.8	66.0	133
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4102400)								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.087 mg/kg	90.2	70.0	125
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4102402)								

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4102402) - continued								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.087 mg/kg	101	70.0	125
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4103629)								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.087 mg/kg	92.5	70.0	125
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4103632)								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.087 mg/kg	91.4	70.0	125
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 4098563)								
EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	1 mg/kg	89.0	62.0	126
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 4098659)								
EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	1 mg/kg	87.5	62.0	126
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 4098680)								
EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	1 mg/kg	102	62.0	126
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 4102081)								
EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	1 mg/kg	88.0	62.0	126
EP068A: Organochlorine Pesticides (OC) (QCLot: 4098562)								
EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	0.5 mg/kg	80.1	69.0	113
EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	0.5 mg/kg	79.3	65.0	117
EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	0.5 mg/kg	79.2	67.0	119
EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	0.5 mg/kg	80.1	68.0	116
EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	91.6	65.0	117
EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	0.5 mg/kg	83.1	67.0	115
EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	0.5 mg/kg	84.5	69.0	115
EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	0.5 mg/kg	87.8	62.0	118
EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	0.5 mg/kg	85.6	63.0	117
EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	0.5 mg/kg	83.0	66.0	116
EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	0.5 mg/kg	78.7	64.0	116
EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	0.5 mg/kg	88.6	66.0	116
EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	0.5 mg/kg	87.0	67.0	115
EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	0.5 mg/kg	90.8	67.0	123
EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	0.5 mg/kg	80.3	69.0	115
EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	0.5 mg/kg	86.1	69.0	121
EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	0.5 mg/kg	93.6	56.0	120
EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	0.5 mg/kg	87.1	62.0	124
EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	0.5 mg/kg	97.4	66.0	120
EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	0.5 mg/kg	82.8	64.0	122
EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	0.5 mg/kg	81.5	54.0	130
EP068A: Organochlorine Pesticides (OC) (QCLot: 4098658)								
EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	0.5 mg/kg	85.0	69.0	113

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP068A: Organochlorine Pesticides (OC) (QCLot: 4098658) - continued								
EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	0.5 mg/kg	81.9	65.0	117
EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	0.5 mg/kg	91.5	67.0	119
EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	0.5 mg/kg	91.3	68.0	116
EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	89.4	65.0	117
EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	0.5 mg/kg	80.7	67.0	115
EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	0.5 mg/kg	90.9	69.0	115
EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	0.5 mg/kg	83.8	62.0	118
EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	0.5 mg/kg	79.5	63.0	117
EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	0.5 mg/kg	78.1	66.0	116
EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	0.5 mg/kg	79.8	64.0	116
EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	0.5 mg/kg	75.7	66.0	116
EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	0.5 mg/kg	73.7	67.0	115
EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	0.5 mg/kg	89.9	67.0	123
EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	0.5 mg/kg	76.2	69.0	115
EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	0.5 mg/kg	81.0	69.0	121
EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	0.5 mg/kg	89.7	56.0	120
EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	0.5 mg/kg	91.1	62.0	124
EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	0.5 mg/kg	83.6	66.0	120
EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	0.5 mg/kg	98.5	64.0	122
EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	0.5 mg/kg	97.6	54.0	130
EP068A: Organochlorine Pesticides (OC) (QCLot: 4098679)								
EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	0.5 mg/kg	90.8	69.0	113
EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	0.5 mg/kg	86.5	65.0	117
EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	0.5 mg/kg	97.7	67.0	119
EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	0.5 mg/kg	96.0	68.0	116
EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	96.7	65.0	117
EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	0.5 mg/kg	85.5	67.0	115
EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	0.5 mg/kg	96.2	69.0	115
EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	0.5 mg/kg	94.4	62.0	118
EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	0.5 mg/kg	93.7	63.0	117
EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	0.5 mg/kg	99.1	66.0	116
EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	0.5 mg/kg	94.4	64.0	116
EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	0.5 mg/kg	94.5	66.0	116
EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	0.5 mg/kg	94.2	67.0	115
EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	0.5 mg/kg	78.0	67.0	123
EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	0.5 mg/kg	95.2	69.0	115
EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	0.5 mg/kg	99.9	69.0	121
EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	0.5 mg/kg	103	56.0	120
EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	0.5 mg/kg	90.4	62.0	124

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP068A: Organochlorine Pesticides (OC) (QCLot: 4098679) - continued								
EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	0.5 mg/kg	82.2	66.0	120
EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	0.5 mg/kg	96.2	64.0	122
EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	0.5 mg/kg	89.0	54.0	130
EP068A: Organochlorine Pesticides (OC) (QCLot: 4102080)								
EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	0.5 mg/kg	93.8	69.0	113
EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	0.5 mg/kg	83.0	65.0	117
EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	0.5 mg/kg	102	67.0	119
EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	0.5 mg/kg	102	68.0	116
EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	98.4	65.0	117
EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	0.5 mg/kg	85.7	67.0	115
EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	0.5 mg/kg	98.2	69.0	115
EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	0.5 mg/kg	87.6	62.0	118
EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	0.5 mg/kg	88.2	63.0	117
EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	0.5 mg/kg	89.0	66.0	116
EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	0.5 mg/kg	87.9	64.0	116
EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	0.5 mg/kg	87.9	66.0	116
EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	0.5 mg/kg	87.0	67.0	115
EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	0.5 mg/kg	84.6	67.0	123
EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	0.5 mg/kg	84.1	69.0	115
EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	0.5 mg/kg	82.7	69.0	121
EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	0.5 mg/kg	99.5	56.0	120
EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	0.5 mg/kg	90.9	62.0	124
EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	0.5 mg/kg	85.1	66.0	120
EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	0.5 mg/kg	102	64.0	122
EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	0.5 mg/kg	73.2	54.0	130
EP068B: Organophosphorus Pesticides (OP) (QCLot: 4098562)								
EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	0.5 mg/kg	79.0	59.0	119
EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	77.8	62.0	128
EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	0.5 mg/kg	64.5	54.0	126
EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	0.5 mg/kg	84.2	67.0	119
EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	0.5 mg/kg	87.0	70.0	120
EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	0.5 mg/kg	83.0	72.0	120
EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	0.5 mg/kg	80.5	68.0	120
EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	0.5 mg/kg	83.8	68.0	122
EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	0.5 mg/kg	83.6	69.0	117
EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	0.5 mg/kg	80.2	76.0	118
EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	0.5 mg/kg	85.2	64.0	122
EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	0.5 mg/kg	82.6	70.0	116
EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	0.5 mg/kg	84.3	69.0	121

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP068B: Organophosphorus Pesticides (OP) (QCLot: 4098562) - continued								
EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	0.5 mg/kg	79.0	66.0	118
EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	0.5 mg/kg	82.1	68.0	124
EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	0.5 mg/kg	80.8	62.0	112
EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	0.5 mg/kg	87.9	68.0	120
EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	0.5 mg/kg	76.1	65.0	127
EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	0.5 mg/kg	69.4	41.0	123
EP068B: Organophosphorus Pesticides (OP) (QCLot: 4098658)								
EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	0.5 mg/kg	99.3	59.0	119
EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	77.7	62.0	128
EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	0.5 mg/kg	62.1	54.0	126
EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	0.5 mg/kg	99.7	67.0	119
EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	0.5 mg/kg	87.8	70.0	120
EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	0.5 mg/kg	77.6	72.0	120
EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	0.5 mg/kg	73.0	68.0	120
EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	0.5 mg/kg	74.7	68.0	122
EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	0.5 mg/kg	85.9	69.0	117
EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	0.5 mg/kg	84.8	76.0	118
EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	0.5 mg/kg	98.3	64.0	122
EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	0.5 mg/kg	85.5	70.0	116
EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	0.5 mg/kg	90.9	69.0	121
EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	0.5 mg/kg	74.3	66.0	118
EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	0.5 mg/kg	109	68.0	124
EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	0.5 mg/kg	76.2	62.0	112
EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	0.5 mg/kg	76.1	68.0	120
EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	0.5 mg/kg	70.3	65.0	127
EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	0.5 mg/kg	78.4	41.0	123
EP068B: Organophosphorus Pesticides (OP) (QCLot: 4098679)								
EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	0.5 mg/kg	80.6	59.0	119
EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	72.2	62.0	128
EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	0.5 mg/kg	69.0	54.0	126
EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	0.5 mg/kg	91.4	67.0	119
EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	0.5 mg/kg	92.9	70.0	120
EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	0.5 mg/kg	84.6	72.0	120
EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	0.5 mg/kg	72.4	68.0	120
EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	0.5 mg/kg	84.6	68.0	122
EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	0.5 mg/kg	91.8	69.0	117
EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	0.5 mg/kg	91.5	76.0	118
EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	0.5 mg/kg	80.8	64.0	122
EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	0.5 mg/kg	88.4	70.0	116

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP068B: Organophosphorus Pesticides (OP) (QCLot: 4098679) - continued								
EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	0.5 mg/kg	102	69.0	121
EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	0.5 mg/kg	87.8	66.0	118
EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	0.5 mg/kg	74.6	68.0	124
EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	0.5 mg/kg	91.7	62.0	112
EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	0.5 mg/kg	94.4	68.0	120
EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	0.5 mg/kg	77.7	65.0	127
EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	0.5 mg/kg	71.9	41.0	123
EP068B: Organophosphorus Pesticides (OP) (QCLot: 4102080)								
EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	0.5 mg/kg	114	59.0	119
EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	80.2	62.0	128
EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	0.5 mg/kg	95.9	54.0	126
EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	0.5 mg/kg	93.2	67.0	119
EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	0.5 mg/kg	99.7	70.0	120
EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	0.5 mg/kg	84.0	72.0	120
EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	0.5 mg/kg	87.4	68.0	120
EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	0.5 mg/kg	81.8	68.0	122
EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	0.5 mg/kg	86.4	69.0	117
EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	0.5 mg/kg	90.9	76.0	118
EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	0.5 mg/kg	83.4	64.0	122
EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	0.5 mg/kg	96.1	70.0	116
EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	0.5 mg/kg	85.1	69.0	121
EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	0.5 mg/kg	80.0	66.0	118
EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	0.5 mg/kg	89.5	68.0	124
EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	0.5 mg/kg	100	62.0	112
EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	0.5 mg/kg	78.6	68.0	120
EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	0.5 mg/kg	99.0	65.0	127
EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	0.5 mg/kg	79.6	41.0	123
EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 4097168)								
EP074: Styrene	100-42-5	0.5	mg/kg	<0.5	1 mg/kg	94.5	67.0	113
EP074: Isopropylbenzene	98-82-8	0.5	mg/kg	<0.5	1 mg/kg	97.2	65.0	117
EP074: n-Propylbenzene	103-65-1	0.5	mg/kg	<0.5	1 mg/kg	90.2	66.0	122
EP074: 1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	<0.5	1 mg/kg	91.7	68.0	118
EP074: sec-Butylbenzene	135-98-8	0.5	mg/kg	<0.5	1 mg/kg	93.2	69.0	119
EP074: 1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	<0.5	1 mg/kg	91.1	69.0	117
EP074: tert-Butylbenzene	98-06-6	0.5	mg/kg	<0.5	1 mg/kg	92.8	69.0	115
EP074: p-Isopropyltoluene	99-87-6	0.5	mg/kg	<0.5	1 mg/kg	93.1	66.0	118
EP074: n-Butylbenzene	104-51-8	0.5	mg/kg	<0.5	1 mg/kg	90.3	59.0	125
EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 4097811)								

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 4097811) - continued								
EP074: Styrene	100-42-5	0.5	mg/kg	<0.5	1 mg/kg	89.5	67.0	113
EP074: Isopropylbenzene	98-82-8	0.5	mg/kg	<0.5	1 mg/kg	93.2	65.0	117
EP074: n-Propylbenzene	103-65-1	0.5	mg/kg	<0.5	1 mg/kg	87.5	66.0	122
EP074: 1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	<0.5	1 mg/kg	88.2	68.0	118
EP074: sec-Butylbenzene	135-98-8	0.5	mg/kg	<0.5	1 mg/kg	91.3	69.0	119
EP074: 1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	<0.5	1 mg/kg	89.4	69.0	117
EP074: tert-Butylbenzene	98-06-6	0.5	mg/kg	<0.5	1 mg/kg	89.5	69.0	115
EP074: p-Isopropyltoluene	99-87-6	0.5	mg/kg	<0.5	1 mg/kg	89.1	66.0	118
EP074: n-Butylbenzene	104-51-8	0.5	mg/kg	<0.5	1 mg/kg	88.3	59.0	125
EP074B: Oxygenated Compounds (QCLot: 4097168)								
EP074: Vinyl Acetate	108-05-4	5	mg/kg	<5	10 mg/kg	114	29.6	156
EP074: 2-Butanone (MEK)	78-93-3	5	mg/kg	<5	10 mg/kg	77.2	58.0	136
EP074: 4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	<5	10 mg/kg	104	62.0	132
EP074: 2-Hexanone (MBK)	591-78-6	5	mg/kg	<5	10 mg/kg	87.2	54.0	136
EP074B: Oxygenated Compounds (QCLot: 4097811)								
EP074: Vinyl Acetate	108-05-4	5	mg/kg	<5	10 mg/kg	77.4	29.6	156
EP074: 2-Butanone (MEK)	78-93-3	5	mg/kg	<5	10 mg/kg	66.4	58.0	136
EP074: 4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	<5	10 mg/kg	92.7	62.0	132
EP074: 2-Hexanone (MBK)	591-78-6	5	mg/kg	<5	10 mg/kg	77.8	54.0	136
EP074C: Sulfonated Compounds (QCLot: 4097168)								
EP074: Carbon disulfide	75-15-0	0.5	mg/kg	<0.5	1 mg/kg	92.2	54.0	126
EP074C: Sulfonated Compounds (QCLot: 4097811)								
EP074: Carbon disulfide	75-15-0	0.5	mg/kg	<0.5	1 mg/kg	83.9	54.0	126
EP074D: Fumigants (QCLot: 4097168)								
EP074: 2.2-Dichloropropane	594-20-7	0.5	mg/kg	<0.5	1 mg/kg	96.4	60.0	126
EP074: 1.2-Dichloropropane	78-87-5	0.5	mg/kg	<0.5	1 mg/kg	95.1	68.0	124
EP074: cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	<0.5	1 mg/kg	93.4	51.0	119
EP074: trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	<0.5	1 mg/kg	96.5	52.0	114
EP074: 1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	<0.5	1 mg/kg	102	63.0	115
EP074D: Fumigants (QCLot: 4097811)								
EP074: 2.2-Dichloropropane	594-20-7	0.5	mg/kg	<0.5	1 mg/kg	84.8	60.0	126
EP074: 1.2-Dichloropropane	78-87-5	0.5	mg/kg	<0.5	1 mg/kg	91.3	68.0	124
EP074: cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	<0.5	1 mg/kg	83.8	51.0	119
EP074: trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	<0.5	1 mg/kg	86.3	52.0	114
EP074: 1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	<0.5	1 mg/kg	91.9	63.0	115
EP074E: Halogenated Aliphatic Compounds (QCLot: 4097168)								
EP074: Dichlorodifluoromethane	75-71-8	5	mg/kg	<5	10 mg/kg	83.0	30.0	148
EP074: Chloromethane	74-87-3	5	mg/kg	<5	10 mg/kg	93.4	41.0	141

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP074E: Halogenated Aliphatic Compounds (QCLot: 4097168) - continued								
EP074: Vinyl chloride	75-01-4	5	mg/kg	<5	10 mg/kg	90.2	43.0	147
EP074: Bromomethane	74-83-9	5	mg/kg	<5	10 mg/kg	60.2	47.0	141
EP074: Chloroethane	75-00-3	5	mg/kg	<5	10 mg/kg	93.0	49.0	143
EP074: Trichlorofluoromethane	75-69-4	5	mg/kg	<5	10 mg/kg	97.2	49.0	135
EP074: 1.1-Dichloroethene	75-35-4	0.5	mg/kg	<0.5	1 mg/kg	99.2	54.0	126
EP074: Iodomethane	74-88-4	0.5	mg/kg	<0.5	1 mg/kg	90.6	43.0	129
EP074: trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	<0.5	1 mg/kg	92.8	64.0	120
EP074: 1.1-Dichloroethane	75-34-3	0.5	mg/kg	<0.5	1 mg/kg	95.2	67.0	125
EP074: cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	<0.5	1 mg/kg	97.2	69.0	121
EP074: 1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	<0.5	1 mg/kg	96.5	65.0	117
EP074: 1.1-Dichloropropylene	563-58-6	0.5	mg/kg	<0.5	1 mg/kg	95.3	65.0	123
EP074: Carbon Tetrachloride	56-23-5	0.5	mg/kg	<0.5	1 mg/kg	97.6	59.0	125
EP074: 1.2-Dichloroethane	107-06-2	0.5	mg/kg	<0.5	1 mg/kg	102	65.0	125
EP074: Trichloroethene	79-01-6	0.5	mg/kg	<0.5	1 mg/kg	94.9	70.0	118
EP074: Dibromomethane	74-95-3	0.5	mg/kg	<0.5	1 mg/kg	100	68.0	118
EP074: 1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	<0.5	1 mg/kg	102	64.0	126
EP074: 1.3-Dichloropropane	142-28-9	0.5	mg/kg	<0.5	1 mg/kg	98.5	68.0	122
EP074: Tetrachloroethene	127-18-4	0.5	mg/kg	<0.5	1 mg/kg	80.2	67.0	143
EP074: 1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	<0.5	1 mg/kg	96.2	62.0	122
EP074: trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	<0.5	1 mg/kg	101	54.0	128
EP074: cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	<0.5	1 mg/kg	99.4	55.0	129
EP074: 1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	<0.5	1 mg/kg	108	65.0	121
EP074: 1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	<0.5	1 mg/kg	108	61.0	125
EP074: Pentachloroethane	76-01-7	0.5	mg/kg	<0.5	1 mg/kg	124	19.8	134
EP074: 1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	<0.5	1 mg/kg	97.7	53.0	129
EP074: Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	1 mg/kg	100	50.0	128
EP074E: Halogenated Aliphatic Compounds (QCLot: 4097811)								
EP074: Dichlorodifluoromethane	75-71-8	5	mg/kg	<5	10 mg/kg	51.6	30.0	148
EP074: Chloromethane	74-87-3	5	mg/kg	<5	10 mg/kg	81.1	41.0	141
EP074: Vinyl chloride	75-01-4	5	mg/kg	<5	10 mg/kg	84.0	43.0	147
EP074: Bromomethane	74-83-9	5	mg/kg	<5	10 mg/kg	114	47.0	141
EP074: Chloroethane	75-00-3	5	mg/kg	<5	10 mg/kg	88.3	49.0	143
EP074: Trichlorofluoromethane	75-69-4	5	mg/kg	<5	10 mg/kg	89.5	49.0	135
EP074: 1.1-Dichloroethene	75-35-4	0.5	mg/kg	<0.5	1 mg/kg	90.8	54.0	126
EP074: Iodomethane	74-88-4	0.5	mg/kg	<0.5	1 mg/kg	77.1	43.0	129
EP074: trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	<0.5	1 mg/kg	89.6	64.0	120
EP074: 1.1-Dichloroethane	75-34-3	0.5	mg/kg	<0.5	1 mg/kg	92.3	67.0	125
EP074: cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	<0.5	1 mg/kg	92.4	69.0	121
EP074: 1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	<0.5	1 mg/kg	91.5	65.0	117

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP074E: Halogenated Aliphatic Compounds (QCLot: 4097811) - continued								
EP074: 1.1-Dichloropropylene	563-58-6	0.5	mg/kg	<0.5	1 mg/kg	91.4	65.0	123
EP074: Carbon Tetrachloride	56-23-5	0.5	mg/kg	<0.5	1 mg/kg	91.3	59.0	125
EP074: 1.2-Dichloroethane	107-06-2	0.5	mg/kg	<0.5	1 mg/kg	93.8	65.0	125
EP074: Trichloroethene	79-01-6	0.5	mg/kg	<0.5	1 mg/kg	91.4	70.0	118
EP074: Dibromomethane	74-95-3	0.5	mg/kg	<0.5	1 mg/kg	91.2	68.0	118
EP074: 1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	<0.5	1 mg/kg	93.8	64.0	126
EP074: 1.3-Dichloropropane	142-28-9	0.5	mg/kg	<0.5	1 mg/kg	92.5	68.0	122
EP074: Tetrachloroethene	127-18-4	0.5	mg/kg	<0.5	1 mg/kg	78.1	67.0	143
EP074: 1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	<0.5	1 mg/kg	89.6	62.0	122
EP074: trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	<0.5	1 mg/kg	76.3	54.0	128
EP074: cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	<0.5	1 mg/kg	76.9	55.0	129
EP074: 1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	<0.5	1 mg/kg	96.6	65.0	121
EP074: 1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	<0.5	1 mg/kg	93.5	61.0	125
EP074: Pentachloroethane	76-01-7	0.5	mg/kg	<0.5	1 mg/kg	113	19.8	134
EP074: 1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	<0.5	1 mg/kg	92.5	53.0	129
EP074: Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	1 mg/kg	94.0	50.0	128
EP074F: Halogenated Aromatic Compounds (QCLot: 4097168)								
EP074: Chlorobenzene	108-90-7	0.5	mg/kg	<0.5	1 mg/kg	98.8	68.0	116
EP074: Bromobenzene	108-86-1	0.5	mg/kg	<0.5	1 mg/kg	93.8	70.0	114
EP074: 2-Chlorotoluene	95-49-8	0.5	mg/kg	<0.5	1 mg/kg	93.0	68.0	122
EP074: 4-Chlorotoluene	106-43-4	0.5	mg/kg	<0.5	1 mg/kg	92.0	67.0	123
EP074: 1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	1 mg/kg	95.2	70.0	116
EP074: 1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	1 mg/kg	95.5	67.0	117
EP074: 1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	1 mg/kg	97.7	70.0	114
EP074: 1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	1 mg/kg	98.4	48.0	122
EP074: 1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	<0.5	1 mg/kg	108	52.0	122
EP074F: Halogenated Aromatic Compounds (QCLot: 4097811)								
EP074: Chlorobenzene	108-90-7	0.5	mg/kg	<0.5	1 mg/kg	93.0	68.0	116
EP074: Bromobenzene	108-86-1	0.5	mg/kg	<0.5	1 mg/kg	89.1	70.0	114
EP074: 2-Chlorotoluene	95-49-8	0.5	mg/kg	<0.5	1 mg/kg	90.4	68.0	122
EP074: 4-Chlorotoluene	106-43-4	0.5	mg/kg	<0.5	1 mg/kg	89.8	67.0	123
EP074: 1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	1 mg/kg	91.1	70.0	116
EP074: 1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	1 mg/kg	90.5	67.0	117
EP074: 1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	1 mg/kg	91.6	70.0	114
EP074: 1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	1 mg/kg	90.8	48.0	122
EP074: 1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	<0.5	1 mg/kg	93.9	52.0	122
EP074G: Trihalomethanes (QCLot: 4097168)								
EP074: Chloroform	67-66-3	0.5	mg/kg	<0.5	1 mg/kg	99.5	66.0	124

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP074G: Trihalomethanes (QCLot: 4097168) - continued								
EP074: Bromodichloromethane	75-27-4	0.5	mg/kg	<0.5	1 mg/kg	96.2	61.0	121
EP074: Dibromochloromethane	124-48-1	0.5	mg/kg	<0.5	1 mg/kg	99.1	63.0	121
EP074: Bromoform	75-25-2	0.5	mg/kg	<0.5	1 mg/kg	102	60.0	126
EP074G: Trihalomethanes (QCLot: 4097811)								
EP074: Chloroform	67-66-3	0.5	mg/kg	<0.5	1 mg/kg	93.4	66.0	124
EP074: Bromodichloromethane	75-27-4	0.5	mg/kg	<0.5	1 mg/kg	90.0	61.0	121
EP074: Dibromochloromethane	124-48-1	0.5	mg/kg	<0.5	1 mg/kg	89.6	63.0	121
EP074: Bromoform	75-25-2	0.5	mg/kg	<0.5	1 mg/kg	88.9	60.0	126
EP074H: Naphthalene (QCLot: 4097168)								
EP074: Naphthalene	91-20-3	1	mg/kg	<1	1 mg/kg	112	67.0	129
EP074H: Naphthalene (QCLot: 4097811)								
EP074: Naphthalene	91-20-3	1	mg/kg	<1	1 mg/kg	94.2	67.0	129
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 4098561)								
EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	6 mg/kg	94.8	77.0	125
EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	6 mg/kg	89.6	72.0	124
EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	6 mg/kg	87.9	73.0	127
EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	6 mg/kg	88.4	72.0	126
EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	6 mg/kg	89.9	75.0	127
EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	6 mg/kg	97.5	77.0	127
EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	6 mg/kg	92.1	73.0	127
EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	6 mg/kg	98.7	74.0	128
EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	6 mg/kg	90.3	69.0	123
EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	6 mg/kg	98.2	75.0	127
EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	6 mg/kg	92.9	68.0	116
EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	6 mg/kg	99.7	74.0	126
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	6 mg/kg	88.8	70.0	126
EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	6 mg/kg	80.1	61.0	121
EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	6 mg/kg	79.2	62.0	118
EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	6 mg/kg	75.4	63.0	121
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 4098657)								
EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	6 mg/kg	93.6	77.0	125
EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	6 mg/kg	92.1	72.0	124
EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	6 mg/kg	88.5	73.0	127
EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	6 mg/kg	88.8	72.0	126
EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	6 mg/kg	90.1	75.0	127
EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	6 mg/kg	87.9	77.0	127
EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	6 mg/kg	92.1	73.0	127

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 4098657) - continued								
EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	6 mg/kg	91.0	74.0	128
EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	6 mg/kg	92.1	69.0	123
EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	6 mg/kg	99.9	75.0	127
EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	6 mg/kg	88.8	68.0	116
EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	6 mg/kg	100	74.0	126
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	6 mg/kg	89.0	70.0	126
EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	6 mg/kg	96.4	61.0	121
EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	6 mg/kg	95.2	62.0	118
EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	6 mg/kg	93.3	63.0	121
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 4098678)								
EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	6 mg/kg	96.3	77.0	125
EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	6 mg/kg	97.6	72.0	124
EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	6 mg/kg	95.6	73.0	127
EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	6 mg/kg	98.6	72.0	126
EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	6 mg/kg	98.8	75.0	127
EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	6 mg/kg	94.2	77.0	127
EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	6 mg/kg	100	73.0	127
EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	6 mg/kg	95.8	74.0	128
EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	6 mg/kg	102	69.0	123
EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	6 mg/kg	101	75.0	127
EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	6 mg/kg	99.3	68.0	116
EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	6 mg/kg	101	74.0	126
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	6 mg/kg	92.7	70.0	126
EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	6 mg/kg	98.3	61.0	121
EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	6 mg/kg	95.4	62.0	118
EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	6 mg/kg	98.9	63.0	121
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 4102078)								
EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	6 mg/kg	99.0	77.0	125
EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	6 mg/kg	88.7	72.0	124
EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	6 mg/kg	96.2	73.0	127
EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	6 mg/kg	100.0	72.0	126
EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	6 mg/kg	101	75.0	127
EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	6 mg/kg	94.9	77.0	127
EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	6 mg/kg	100	73.0	127
EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	6 mg/kg	102	74.0	128
EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	6 mg/kg	91.1	69.0	123
EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	6 mg/kg	99.7	75.0	127

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 4102078) - continued								
EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	6 mg/kg	88.1	68.0	116
EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	6 mg/kg	95.4	74.0	126
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	6 mg/kg	92.5	70.0	126
EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	6 mg/kg	93.4	61.0	121
EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	6 mg/kg	94.8	62.0	118
EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	6 mg/kg	88.4	63.0	121
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4097167)								
EP080: C6 - C9 Fraction	----	10	mg/kg	<10	26 mg/kg	103	68.4	128
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4097812)								
EP080: C6 - C9 Fraction	----	10	mg/kg	<10	26 mg/kg	85.9	68.4	128
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4098280)								
EP080: C6 - C9 Fraction	----	10	mg/kg	<10	26 mg/kg	73.6	68.4	128
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4098560)								
EP071: C10 - C14 Fraction	----	50	mg/kg	<50	300 mg/kg	81.0	75.0	129
EP071: C15 - C28 Fraction	----	100	mg/kg	<100	450 mg/kg	101	77.0	131
EP071: C29 - C36 Fraction	----	100	mg/kg	<100	300 mg/kg	97.7	71.0	129
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4098656)								
EP071: C10 - C14 Fraction	----	50	mg/kg	<50	300 mg/kg	117	75.0	129
EP071: C15 - C28 Fraction	----	100	mg/kg	<100	450 mg/kg	106	77.0	131
EP071: C29 - C36 Fraction	----	100	mg/kg	<100	300 mg/kg	99.2	71.0	129
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4098677)								
EP071: C10 - C14 Fraction	----	50	mg/kg	<50	300 mg/kg	86.1	75.0	129
EP071: C15 - C28 Fraction	----	100	mg/kg	<100	450 mg/kg	86.3	77.0	131
EP071: C29 - C36 Fraction	----	100	mg/kg	<100	300 mg/kg	84.6	71.0	129
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4102079)								
EP071: C10 - C14 Fraction	----	50	mg/kg	<50	300 mg/kg	94.7	75.0	129
EP071: C15 - C28 Fraction	----	100	mg/kg	<100	450 mg/kg	92.3	77.0	131
EP071: C29 - C36 Fraction	----	100	mg/kg	<100	300 mg/kg	91.7	71.0	129
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4102701)								
EP080: C6 - C9 Fraction	----	10	mg/kg	<10	26 mg/kg	95.1	68.4	128
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4097167)								
EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	31 mg/kg	104	68.4	128
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4097812)								
EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	31 mg/kg	84.5	68.4	128
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4098280)								
EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	31 mg/kg	70.7	68.4	128

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4098560)								
EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	375 mg/kg	92.6	77.0	125
EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	525 mg/kg	109	74.0	138
EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	225 mg/kg	95.9	63.0	131
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4098656)								
EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	375 mg/kg	114	77.0	125
EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	525 mg/kg	102	74.0	138
EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	225 mg/kg	100	63.0	131
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4098677)								
EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	375 mg/kg	86.7	77.0	125
EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	525 mg/kg	85.0	74.0	138
EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	225 mg/kg	84.1	63.0	131
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4102079)								
EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	375 mg/kg	94.7	77.0	125
EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	525 mg/kg	91.3	74.0	138
EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	225 mg/kg	93.7	63.0	131
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4102701)								
EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	31 mg/kg	95.9	68.4	128
EP080: BTEXN (QCLot: 4097167)								
EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	1 mg/kg	104	62.0	116
EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	1 mg/kg	101	67.0	121
EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	1 mg/kg	103	65.0	117
EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	2 mg/kg	106	66.0	118
EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	1 mg/kg	107	68.0	120
EP080: Naphthalene	91-20-3	1	mg/kg	<1	1 mg/kg	80.0	63.0	119
EP080: BTEXN (QCLot: 4097812)								
EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	1 mg/kg	85.2	62.0	116
EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	1 mg/kg	88.5	67.0	121
EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	1 mg/kg	89.4	65.0	117
EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	2 mg/kg	89.1	66.0	118
EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	1 mg/kg	87.6	68.0	120
EP080: Naphthalene	91-20-3	1	mg/kg	<1	1 mg/kg	83.3	63.0	119
EP080: BTEXN (QCLot: 4098280)								
EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	1 mg/kg	89.2	62.0	116
EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	1 mg/kg	90.8	67.0	121
EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	1 mg/kg	84.8	65.0	117

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP080: BTEXN (QCLot: 4098280) - continued								
EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	2 mg/kg	86.4	66.0	118
EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	1 mg/kg	82.5	68.0	120
EP080: Naphthalene	91-20-3	1	mg/kg	<1	1 mg/kg	83.6	63.0	119
EP080: BTEXN (QCLot: 4102701)								
EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	1 mg/kg	93.6	62.0	116
EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	1 mg/kg	100.0	67.0	121
EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	1 mg/kg	101	65.0	117
EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	2 mg/kg	98.6	66.0	118
EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	1 mg/kg	101	68.0	120
EP080: Naphthalene	91-20-3	1	mg/kg	<1	1 mg/kg	94.2	63.0	119
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4104679)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	0.00125 mg/kg	101	72.0	128
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	90.8	73.0	123
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	96.0	67.0	130
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	94.4	70.0	132
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	108	68.0	136
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	0.00125 mg/kg	99.2	59.0	134
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4107614)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	0.00125 mg/kg	120	72.0	128
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	115	73.0	123
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	108	67.0	130
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	114	70.0	132
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	115	68.0	136
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	0.00125 mg/kg	118	59.0	134
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4104679)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	0.00625 mg/kg	93.2	71.0	135
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	0.00125 mg/kg	110	69.0	132
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	111	70.0	132
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	110	71.0	131
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	121	69.0	133
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	106	72.0	129
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	0.00125 mg/kg	110	69.0	133
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	111	64.0	136
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	110	69.0	135
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	108	66.0	139
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	98.2	69.0	133

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4107614)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	0.00625 mg/kg	107	71.0	135
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	0.00125 mg/kg	116	69.0	132
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	123	70.0	132
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	122	71.0	131
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	121	69.0	133
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	117	72.0	129
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	0.00125 mg/kg	117	69.0	133
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	118	64.0	136
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	125	69.0	135
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	116	66.0	139
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	115	69.0	133
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4104679)								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	93.6	67.0	137
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	0.00312 mg/kg	109	71.6	129
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	100	69.8	131
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	100	68.7	130
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	97.9	65.1	134
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	99.6	63.0	144
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	108	61.0	139
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4107614)								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	111	67.0	137
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	0.00312 mg/kg	120	71.6	129
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	110	69.8	131
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	99.8	68.7	130
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	97.3	65.1	134
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	117	63.0	144
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	114	61.0	139
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4104679)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	0.00125 mg/kg	96.0	62.0	145
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	0.00125 mg/kg	93.6	64.0	140
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	0.00125 mg/kg	116	65.0	137

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4104679) - continued								
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	0.00125 mg/kg	106	69.2	143
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4107614)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	0.00125 mg/kg	121	62.0	145
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	0.00125 mg/kg	119	64.0	140
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	0.00125 mg/kg	120	65.0	137
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	0.00125 mg/kg	124	69.2	143

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EG020T: Total Metals by ICP-MS (QCLot: 4105888)								
EG020A-T: Arsenic	7440-38-2	0.001	mg/L	<0.001	0.1 mg/L	90.5	82.0	114
EG020A-T: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	0.1 mg/L	90.9	84.0	112
EG020A-T: Chromium	7440-47-3	0.001	mg/L	<0.001	0.1 mg/L	91.5	86.0	116
EG020A-T: Copper	7440-50-8	0.001	mg/L	<0.001	0.1 mg/L	88.8	83.0	118
EG020A-T: Lead	7439-92-1	0.001	mg/L	<0.001	0.1 mg/L	90.8	85.0	115
EG020A-T: Nickel	7440-02-0	0.001	mg/L	<0.001	0.1 mg/L	88.2	84.0	116
EG020A-T: Zinc	7440-66-6	0.005	mg/L	<0.005	0.1 mg/L	88.8	79.0	117
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4104356)								
EG035T: Mercury	7439-97-6	0.0001	mg/L	<0.0001	0.01 mg/L	96.0	77.0	111
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4098605)								
EP071: C10 - C14 Fraction	----	50	µg/L	<50	400 µg/L	73.9	55.8	112
EP071: C15 - C28 Fraction	----	100	µg/L	<100	600 µg/L	94.1	71.6	113
EP071: C29 - C36 Fraction	----	50	µg/L	<50	400 µg/L	104	56.0	121
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4100930)								
EP080: C6 - C9 Fraction	----	20	µg/L	<20	260 µg/L	112	75.0	127
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4102634)								
EP080: C6 - C9 Fraction	----	20	µg/L	<20	260 µg/L	94.0	75.0	127
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4098605)								
EP071: >C10 - C16 Fraction	----	100	µg/L	<100	500 µg/L	77.9	57.9	119
EP071: >C16 - C34 Fraction	----	100	µg/L	<100	700 µg/L	101	62.5	110
EP071: >C34 - C40 Fraction	----	100	µg/L	<100	300 µg/L	97.4	61.5	121
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4100930)								
EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	310 µg/L	113	75.0	127
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4102634)								
EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	310 µg/L	90.5	75.0	127
EP080: BTEXN (QCLot: 4100930)								
EP080: Benzene	71-43-2	1	µg/L	<1	10 µg/L	105	70.0	122

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP080: BTEXN (QCLot: 4100930) - continued								
EP080: Toluene	108-88-3	2	µg/L	<2	10 µg/L	110	69.0	123
EP080: Ethylbenzene	100-41-4	2	µg/L	<2	10 µg/L	113	70.0	120
EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	10 µg/L	110	69.0	121
EP080: ortho-Xylene	95-47-6	2	µg/L	<2	10 µg/L	105	72.0	122
EP080: Naphthalene	91-20-3	5	µg/L	<5	10 µg/L	97.0	70.0	120
EP080: BTEXN (QCLot: 4102634)								
EP080: Benzene	71-43-2	1	µg/L	<1	10 µg/L	103	70.0	122
EP080: Toluene	108-88-3	2	µg/L	<2	10 µg/L	97.4	69.0	123
EP080: Ethylbenzene	100-41-4	2	µg/L	<2	10 µg/L	99.5	70.0	120
EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	10 µg/L	97.3	69.0	121
EP080: ortho-Xylene	95-47-6	2	µg/L	<2	10 µg/L	101	72.0	122
EP080: Naphthalene	91-20-3	5	µg/L	<5	10 µg/L	101	70.0	120
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4107171)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	0.25 µg/L	118	72.0	130
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	0.25 µg/L	107	71.0	127
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.25 µg/L	93.8	68.0	131
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	0.25 µg/L	111	69.0	134
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.25 µg/L	104	65.0	140
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	0.25 µg/L	116	53.0	142
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4107171)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	1.25 µg/L	85.0	73.0	129
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	0.25 µg/L	100	72.0	129
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.25 µg/L	119	72.0	129
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	0.25 µg/L	124	72.0	130
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	0.25 µg/L	129	71.0	133
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	0.25 µg/L	111	69.0	130
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	0.25 µg/L	119	71.0	129
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	0.25 µg/L	114	69.0	133
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	0.25 µg/L	117	72.0	134
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	0.25 µg/L	111	65.0	144
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	0.625 µg/L	102	71.0	132
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4107171)								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	0.25 µg/L	108	67.0	137
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	0.625 µg/L	105	68.0	141
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	0.625 µg/L	106	62.6	147

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4107171) - continued								
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	0.625 µg/L	97.4	66.0	145
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	0.625 µg/L	104	57.6	145
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	0.25 µg/L	118	65.0	136
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.25 µg/L	115	61.0	135
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4107171)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.25 µg/L	106	63.0	143
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	0.25 µg/L	99.4	64.0	140
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	0.25 µg/L	120	67.0	138
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	0.25 µg/L	109	71.4	144

Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

Sub-Matrix: **SOIL**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	SpikeRecovery(%): MS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4102399)							
ES2146990-001	BUR_BH109_0.2	EG005T: Arsenic	7440-38-2	50 mg/kg	95.1	70.0	130
		EG005T: Cadmium	7440-43-9	50 mg/kg	95.4	70.0	130
		EG005T: Chromium	7440-47-3	50 mg/kg	94.9	68.0	132
		EG005T: Copper	7440-50-8	250 mg/kg	98.8	70.0	130
		EG005T: Lead	7439-92-1	250 mg/kg	93.1	70.0	130
		EG005T: Nickel	7440-02-0	50 mg/kg	105	70.0	130
		EG005T: Zinc	7440-66-6	250 mg/kg	93.0	66.0	133
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4102401)							
ES2146990-021	BUR_BH114_5.0	EG005T: Arsenic	7440-38-2	50 mg/kg	93.3	70.0	130
		EG005T: Cadmium	7440-43-9	50 mg/kg	97.3	70.0	130
		EG005T: Chromium	7440-47-3	50 mg/kg	96.4	68.0	132
		EG005T: Copper	7440-50-8	250 mg/kg	97.7	70.0	130
		EG005T: Lead	7439-92-1	250 mg/kg	96.6	70.0	130
		EG005T: Nickel	7440-02-0	50 mg/kg	88.1	70.0	130
		EG005T: Zinc	7440-66-6	250 mg/kg	91.6	66.0	133
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4103630)							

Sub-Matrix: **SOIL**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4103630) - continued							
ES2146169-001	Anonymous	EG005T: Arsenic	7440-38-2	50 mg/kg	93.2	70.0	130
		EG005T: Cadmium	7440-43-9	50 mg/kg	97.0	70.0	130
		EG005T: Chromium	7440-47-3	50 mg/kg	93.2	68.0	132
		EG005T: Copper	7440-50-8	250 mg/kg	99.0	70.0	130
		EG005T: Lead	7439-92-1	250 mg/kg	96.2	70.0	130
		EG005T: Nickel	7440-02-0	50 mg/kg	95.9	70.0	130
		EG005T: Zinc	7440-66-6	250 mg/kg	95.4	66.0	133
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4103631)							
ES2146990-040	BUR_BH101_0.1	EG005T: Arsenic	7440-38-2	50 mg/kg	94.9	70.0	130
		EG005T: Cadmium	7440-43-9	50 mg/kg	95.3	70.0	130
		EG005T: Chromium	7440-47-3	50 mg/kg	95.4	68.0	132
		EG005T: Copper	7440-50-8	250 mg/kg	102	70.0	130
		EG005T: Lead	7439-92-1	250 mg/kg	100.0	70.0	130
		EG005T: Nickel	7440-02-0	50 mg/kg	107	70.0	130
		EG005T: Zinc	7440-66-6	250 mg/kg	99.0	66.0	133
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4102400)							
ES2146990-001	BUR_BH109_0.2	EG035T: Mercury	7439-97-6	5 mg/kg	103	70.0	130
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4102402)							
ES2146990-021	BUR_BH114_5.0	EG035T: Mercury	7439-97-6	5 mg/kg	102	70.0	130
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4103629)							
ES2146169-001	Anonymous	EG035T: Mercury	7439-97-6	5 mg/kg	94.6	70.0	130
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4103632)							
ES2146990-040	BUR_BH101_0.1	EG035T: Mercury	7439-97-6	5 mg/kg	91.2	70.0	130
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 4098563)							
ES2146990-001	BUR_BH109_0.2	EP066: Total Polychlorinated biphenyls	----	1 mg/kg	99.2	70.0	130
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 4098659)							
ES2146990-027	BUR_BH115_0.2	EP066: Total Polychlorinated biphenyls	----	1 mg/kg	117	70.0	130
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 4098680)							
ES2146990-021	BUR_BH114_5.0	EP066: Total Polychlorinated biphenyls	----	1 mg/kg	95.8	70.0	130
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 4102081)							
ES2146918-001	Anonymous	EP066: Total Polychlorinated biphenyls	----	1 mg/kg	106	70.0	130
EP068A: Organochlorine Pesticides (OC) (QCLot: 4098562)							
ES2146990-001	BUR_BH109_0.2	EP068: gamma-BHC	58-89-9	0.5 mg/kg	99.4	70.0	130
		EP068: Heptachlor	76-44-8	0.5 mg/kg	89.5	70.0	130
		EP068: Aldrin	309-00-2	0.5 mg/kg	90.6	70.0	130

Sub-Matrix: **SOIL**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP068A: Organochlorine Pesticides (OC) (QCLot: 4098562) - continued							
ES2146990-001	BUR_BH109_0.2	EP068: Dieldrin	60-57-1	0.5 mg/kg	94.1	70.0	130
		EP068: Endrin	72-20-8	2 mg/kg	100	70.0	130
		EP068: 4.4`-DDT	50-29-3	2 mg/kg	98.8	70.0	130
EP068A: Organochlorine Pesticides (OC) (QCLot: 4098658)							
ES2146990-027	BUR_BH115_0.2	EP068: gamma-BHC	58-89-9	0.5 mg/kg	84.0	70.0	130
		EP068: Heptachlor	76-44-8	0.5 mg/kg	91.1	70.0	130
		EP068: Aldrin	309-00-2	0.5 mg/kg	89.0	70.0	130
		EP068: Dieldrin	60-57-1	0.5 mg/kg	90.8	70.0	130
		EP068: Endrin	72-20-8	2 mg/kg	86.1	70.0	130
		EP068: 4.4`-DDT	50-29-3	2 mg/kg	104	70.0	130
EP068A: Organochlorine Pesticides (OC) (QCLot: 4098679)							
ES2146990-021	BUR_BH114_5.0	EP068: gamma-BHC	58-89-9	0.5 mg/kg	90.0	70.0	130
		EP068: Heptachlor	76-44-8	0.5 mg/kg	96.4	70.0	130
		EP068: Aldrin	309-00-2	0.5 mg/kg	94.7	70.0	130
		EP068: Dieldrin	60-57-1	0.5 mg/kg	91.9	70.0	130
		EP068: Endrin	72-20-8	2 mg/kg	104	70.0	130
		EP068: 4.4`-DDT	50-29-3	2 mg/kg	92.0	70.0	130
EP068A: Organochlorine Pesticides (OC) (QCLot: 4102080)							
ES2146918-001	Anonymous	EP068: gamma-BHC	58-89-9	0.5 mg/kg	105	70.0	130
		EP068: Heptachlor	76-44-8	0.5 mg/kg	99.9	70.0	130
		EP068: Aldrin	309-00-2	0.5 mg/kg	118	70.0	130
		EP068: Dieldrin	60-57-1	0.5 mg/kg	108	70.0	130
		EP068: Endrin	72-20-8	2 mg/kg	94.0	70.0	130
		EP068: 4.4`-DDT	50-29-3	2 mg/kg	90.8	70.0	130
EP068B: Organophosphorus Pesticides (OP) (QCLot: 4098562)							
ES2146990-001	BUR_BH109_0.2	EP068: Diazinon	333-41-5	0.5 mg/kg	97.7	70.0	130
		EP068: Chlorpyrifos-methyl	5598-13-0	0.5 mg/kg	98.6	70.0	130
		EP068: Pirimphos-ethyl	23505-41-1	0.5 mg/kg	83.2	70.0	130
		EP068: Bromophos-ethyl	4824-78-6	0.5 mg/kg	114	70.0	130
		EP068: Prothiofos	34643-46-4	0.5 mg/kg	86.0	70.0	130
EP068B: Organophosphorus Pesticides (OP) (QCLot: 4098658)							
ES2146990-027	BUR_BH115_0.2	EP068: Diazinon	333-41-5	0.5 mg/kg	108	70.0	130
		EP068: Chlorpyrifos-methyl	5598-13-0	0.5 mg/kg	86.8	70.0	130
		EP068: Pirimphos-ethyl	23505-41-1	0.5 mg/kg	86.9	70.0	130
		EP068: Bromophos-ethyl	4824-78-6	0.5 mg/kg	85.1	70.0	130
		EP068: Prothiofos	34643-46-4	0.5 mg/kg	100	70.0	130
EP068B: Organophosphorus Pesticides (OP) (QCLot: 4098679)							

Sub-Matrix: **SOIL**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP068B: Organophosphorus Pesticides (OP) (QCLot: 4098679) - continued							
ES2146990-021	BUR_BH114_5.0	EP068: Diazinon	333-41-5	0.5 mg/kg	99.2	70.0	130
		EP068: Chlorpyrifos-methyl	5598-13-0	0.5 mg/kg	86.5	70.0	130
		EP068: Pirimphos-ethyl	23505-41-1	0.5 mg/kg	93.1	70.0	130
		EP068: Bromophos-ethyl	4824-78-6	0.5 mg/kg	92.3	70.0	130
		EP068: Prothiofos	34643-46-4	0.5 mg/kg	102	70.0	130
EP068B: Organophosphorus Pesticides (OP) (QCLot: 4102080)							
ES2146918-001	Anonymous	EP068: Diazinon	333-41-5	0.5 mg/kg	118	70.0	130
		EP068: Chlorpyrifos-methyl	5598-13-0	0.5 mg/kg	93.6	70.0	130
		EP068: Pirimphos-ethyl	23505-41-1	0.5 mg/kg	99.6	70.0	130
		EP068: Bromophos-ethyl	4824-78-6	0.5 mg/kg	93.1	70.0	130
		EP068: Prothiofos	34643-46-4	0.5 mg/kg	110	70.0	130
EP074E: Halogenated Aliphatic Compounds (QCLot: 4097168)							
ES2146990-001	BUR_BH109_0.2	EP074: 1.1-Dichloroethene	75-35-4	2.5 mg/kg	78.7	70.0	130
		EP074: Trichloroethene	79-01-6	2.5 mg/kg	70.6	70.0	130
EP074E: Halogenated Aliphatic Compounds (QCLot: 4097811)							
ES2146739-001	Anonymous	EP074: 1.1-Dichloroethene	75-35-4	2.5 mg/kg	84.2	70.0	130
		EP074: Trichloroethene	79-01-6	2.5 mg/kg	85.6	70.0	130
EP074F: Halogenated Aromatic Compounds (QCLot: 4097168)							
ES2146990-001	BUR_BH109_0.2	EP074: Chlorobenzene	108-90-7	2.5 mg/kg	77.2	70.0	130
EP074F: Halogenated Aromatic Compounds (QCLot: 4097811)							
ES2146739-001	Anonymous	EP074: Chlorobenzene	108-90-7	2.5 mg/kg	90.7	70.0	130
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 4098561)							
ES2146990-001	BUR_BH109_0.2	EP075(SIM): Acenaphthene	83-32-9	10 mg/kg	86.8	70.0	130
		EP075(SIM): Pyrene	129-00-0	10 mg/kg	97.2	70.0	130
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 4098657)							
ES2146990-027	BUR_BH115_0.2	EP075(SIM): Acenaphthene	83-32-9	10 mg/kg	95.1	70.0	130
		EP075(SIM): Pyrene	129-00-0	10 mg/kg	97.5	70.0	130
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 4098678)							
ES2146990-021	BUR_BH114_5.0	EP075(SIM): Acenaphthene	83-32-9	10 mg/kg	81.6	70.0	130
		EP075(SIM): Pyrene	129-00-0	10 mg/kg	87.6	70.0	130
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 4102078)							
ES2146918-001	Anonymous	EP075(SIM): Acenaphthene	83-32-9	10 mg/kg	98.6	70.0	130
		EP075(SIM): Pyrene	129-00-0	10 mg/kg	106	70.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4097167)							
ES2146990-001	BUR_BH109_0.2	EP080: C6 - C9 Fraction	----	32.5 mg/kg	109	70.0	130

Sub-Matrix: **SOIL**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4097812)							
ES2146739-001	Anonymous	EP080: C6 - C9 Fraction	----	32.5 mg/kg	103	70.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4098280)							
ES2146990-002	BUR_BH109_0.5	EP080: C6 - C9 Fraction	----	32.5 mg/kg	73.6	70.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4098560)							
ES2146990-001	BUR_BH109_0.2	EP071: C10 - C14 Fraction	----	480 mg/kg	99.1	73.0	137
		EP071: C15 - C28 Fraction	----	3100 mg/kg	105	53.0	131
		EP071: C29 - C36 Fraction	----	2060 mg/kg	108	52.0	132
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4098656)							
ES2146990-027	BUR_BH115_0.2	EP071: C10 - C14 Fraction	----	480 mg/kg	77.8	73.0	137
		EP071: C15 - C28 Fraction	----	3100 mg/kg	90.5	53.0	131
		EP071: C29 - C36 Fraction	----	2060 mg/kg	99.8	52.0	132
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4098677)							
ES2146990-021	BUR_BH114_5.0	EP071: C10 - C14 Fraction	----	480 mg/kg	104	73.0	137
		EP071: C15 - C28 Fraction	----	3100 mg/kg	112	53.0	131
		EP071: C29 - C36 Fraction	----	2060 mg/kg	116	52.0	132
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4102079)							
ES2146918-001	Anonymous	EP071: C10 - C14 Fraction	----	480 mg/kg	102	73.0	137
		EP071: C15 - C28 Fraction	----	3100 mg/kg	104	53.0	131
		EP071: C29 - C36 Fraction	----	2060 mg/kg	108	52.0	132
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4102701)							
ES2146592-002	Anonymous	EP080: C6 - C9 Fraction	----	32.5 mg/kg	94.5	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4097167)							
ES2146990-001	BUR_BH109_0.2	EP080: C6 - C10 Fraction	C6_C10	37.5 mg/kg	107	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4097812)							
ES2146739-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	37.5 mg/kg	102	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4098280)							
ES2146990-002	BUR_BH109_0.5	EP080: C6 - C10 Fraction	C6_C10	37.5 mg/kg	71.3	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4098560)							
ES2146990-001	BUR_BH109_0.2	EP071: >C10 - C16 Fraction	----	860 mg/kg	103	73.0	137
		EP071: >C16 - C34 Fraction	----	4320 mg/kg	108	53.0	131
		EP071: >C34 - C40 Fraction	----	890 mg/kg	111	52.0	132
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4098656)							
ES2146990-027	BUR_BH115_0.2	EP071: >C10 - C16 Fraction	----	860 mg/kg	84.1	73.0	137
		EP071: >C16 - C34 Fraction	----	4320 mg/kg	93.0	53.0	131
		EP071: >C34 - C40 Fraction	----	890 mg/kg	107	52.0	132

Sub-Matrix: **SOIL**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4098677)							
ES2146990-021	BUR_BH114_5.0	EP071: >C10 - C16 Fraction	----	860 mg/kg	106	73.0	137
		EP071: >C16 - C34 Fraction	----	4320 mg/kg	115	53.0	131
		EP071: >C34 - C40 Fraction	----	890 mg/kg	107	52.0	132
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4102079)							
ES2146918-001	Anonymous	EP071: >C10 - C16 Fraction	----	860 mg/kg	103	73.0	137
		EP071: >C16 - C34 Fraction	----	4320 mg/kg	107	53.0	131
		EP071: >C34 - C40 Fraction	----	890 mg/kg	109	52.0	132
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4102701)							
ES2146592-002	Anonymous	EP080: C6 - C10 Fraction	C6_C10	37.5 mg/kg	97.4	70.0	130
EP080: BTEXN (QCLot: 4097167)							
ES2146990-001	BUR_BH109_0.2	EP080: Benzene	71-43-2	2.5 mg/kg	101	70.0	130
		EP080: Toluene	108-88-3	2.5 mg/kg	104	70.0	130
		EP080: Ethylbenzene	100-41-4	2.5 mg/kg	108	70.0	130
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2.5 mg/kg	106	70.0	130
		EP080: ortho-Xylene	95-47-6	2.5 mg/kg	109	70.0	130
		EP080: Naphthalene	91-20-3	2.5 mg/kg	111	70.0	130
EP080: BTEXN (QCLot: 4097812)							
ES2146739-001	Anonymous	EP080: Benzene	71-43-2	2.5 mg/kg	96.0	70.0	130
		EP080: Toluene	108-88-3	2.5 mg/kg	93.5	70.0	130
		EP080: Ethylbenzene	100-41-4	2.5 mg/kg	93.6	70.0	130
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2.5 mg/kg	90.8	70.0	130
		EP080: ortho-Xylene	95-47-6	2.5 mg/kg	94.5	70.0	130
		EP080: Naphthalene	91-20-3	2.5 mg/kg	94.6	70.0	130
EP080: BTEXN (QCLot: 4098280)							
ES2146990-002	BUR_BH109_0.5	EP080: Benzene	71-43-2	2.5 mg/kg	78.1	70.0	130
		EP080: Toluene	108-88-3	2.5 mg/kg	81.7	70.0	130
		EP080: Ethylbenzene	100-41-4	2.5 mg/kg	80.6	70.0	130
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2.5 mg/kg	78.8	70.0	130
		EP080: ortho-Xylene	95-47-6	2.5 mg/kg	78.9	70.0	130
		EP080: Naphthalene	91-20-3	2.5 mg/kg	71.2	70.0	130
EP080: BTEXN (QCLot: 4102701)							
ES2146592-002	Anonymous	EP080: Benzene	71-43-2	2.5 mg/kg	81.4	70.0	130
		EP080: Toluene	108-88-3	2.5 mg/kg	82.0	70.0	130
		EP080: Ethylbenzene	100-41-4	2.5 mg/kg	89.7	70.0	130

Sub-Matrix: **SOIL**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP080: BTEXN (QCLot: 4102701) - continued							
ES2146592-002	Anonymous	EP080: meta- & para-Xylene	108-38-3 106-42-3	2.5 mg/kg	92.0	70.0	130
		EP080: ortho-Xylene	95-47-6	2.5 mg/kg	94.3	70.0	130
		EP080: Naphthalene	91-20-3	2.5 mg/kg	84.0	70.0	130
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4104679)							
ES2146990-001	BUR_BH109_0.2	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.00125 mg/kg	96.8	72.0	128
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00125 mg/kg	84.8	73.0	123
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.00125 mg/kg	95.2	67.0	130
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00125 mg/kg	94.4	70.0	132
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.00125 mg/kg	105	68.0	136
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.00125 mg/kg	103	59.0	134
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4107614)							
ES2146990-046	BUR_BH112_5.0	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.00125 mg/kg	120	72.0	128
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00125 mg/kg	117	73.0	123
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.00125 mg/kg	110	67.0	130
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00125 mg/kg	113	70.0	132
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.00125 mg/kg	117	68.0	136
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.00125 mg/kg	122	59.0	134
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4104679)							
ES2146990-001	BUR_BH109_0.2	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.00625 mg/kg	91.9	71.0	135
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.00125 mg/kg	118	69.0	132
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.00125 mg/kg	112	70.0	132
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.00125 mg/kg	115	71.0	131
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.00125 mg/kg	125	69.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.00125 mg/kg	114	72.0	129
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.00125 mg/kg	113	69.0	133
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.00125 mg/kg	106	64.0	136
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.00125 mg/kg	117	69.0	135
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.00125 mg/kg	98.8	66.0	139
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.00312 mg/kg	99.2	69.0	133
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4107614)							
ES2146990-046	BUR_BH112_5.0	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.00625 mg/kg	109	71.0	135
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.00125 mg/kg	120	69.0	132
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.00125 mg/kg	124	70.0	132
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.00125 mg/kg	121	71.0	131
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.00125 mg/kg	120	69.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.00125 mg/kg	117	72.0	129
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.00125 mg/kg	120	69.0	133

Sub-Matrix: **SOIL**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4107614) - continued							
ES2146990-046	BUR_BH112_5.0	EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.00125 mg/kg	118	64.0	136
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.00125 mg/kg	124	69.0	135
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.00125 mg/kg	118	66.0	139
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.00312 mg/kg	117	69.0	133
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4104679)							
ES2146990-001	BUR_BH109_0.2	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.00125 mg/kg	101	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.00312 mg/kg	112	71.6	129
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.00312 mg/kg	102	69.8	131
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.00312 mg/kg	106	68.7	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.00312 mg/kg	97.8	65.1	134
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.00125 mg/kg	98.4	63.0	144
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.00125 mg/kg	110	61.0	139
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4107614)							
ES2146990-046	BUR_BH112_5.0	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.00125 mg/kg	114	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.00312 mg/kg	117	71.6	129
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.00312 mg/kg	110	69.8	131
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.00312 mg/kg	111	68.7	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.00312 mg/kg	92.9	65.1	134
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.00125 mg/kg	114	63.0	144
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.00125 mg/kg	114	61.0	139
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4104679)							
ES2146990-001	BUR_BH109_0.2	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.00125 mg/kg	97.6	62.0	145
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.00125 mg/kg	99.2	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.00125 mg/kg	110	65.0	137
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.00125 mg/kg	118	69.2	143
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4107614)							
ES2146990-046	BUR_BH112_5.0	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.00125 mg/kg	118	62.0	145
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.00125 mg/kg	125	64.0	140

Sub-Matrix: **SOIL**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4107614) - continued							
ES2146990-046	BUR_BH112_5.0	EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.00125 mg/kg	115	65.0	137
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.00125 mg/kg	112	69.2	143

Sub-Matrix: **WATER**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EG020T: Total Metals by ICP-MS (QCLot: 4105888)							
ES2146990-024	R04_20211220	EG020A-T: Arsenic	7440-38-2	1 mg/L	85.8	70.0	130
		EG020A-T: Cadmium	7440-43-9	0.25 mg/L	90.4	70.0	130
		EG020A-T: Chromium	7440-47-3	1 mg/L	91.3	70.0	130
		EG020A-T: Copper	7440-50-8	1 mg/L	87.4	70.0	130
		EG020A-T: Lead	7439-92-1	1 mg/L	88.7	70.0	130
		EG020A-T: Nickel	7440-02-0	1 mg/L	85.9	70.0	130
		EG020A-T: Zinc	7440-66-6	1 mg/L	86.8	70.0	130
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4104356)							
ES2146870-001	Anonymous	EG035T: Mercury	7439-97-6	0.01 mg/L	97.0	70.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4100930)							
ES2146731-001	Anonymous	EP080: C6 - C9 Fraction	----	325 µg/L	123	70.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4102634)							
ES2146997-001	Anonymous	EP080: C6 - C9 Fraction	----	325 µg/L	92.8	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4100930)							
ES2146731-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	375 µg/L	122	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4102634)							
ES2146997-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	375 µg/L	86.0	70.0	130
EP080: BTEXN (QCLot: 4100930)							
ES2146731-001	Anonymous	EP080: Benzene	71-43-2	25 µg/L	101	70.0	130
		EP080: Toluene	108-88-3	25 µg/L	121	70.0	130
		EP080: Ethylbenzene	100-41-4	25 µg/L	114	70.0	130
		EP080: meta- & para-Xylene	108-38-3 106-42-3	25 µg/L	121	70.0	130
		EP080: ortho-Xylene	95-47-6	25 µg/L	111	70.0	130
		EP080: Naphthalene	91-20-3	25 µg/L	102	70.0	130
EP080: BTEXN (QCLot: 4102634)							
ES2146997-001	Anonymous	EP080: Benzene	71-43-2	25 µg/L	94.8	70.0	130
		EP080: Toluene	108-88-3	25 µg/L	96.5	70.0	130
		EP080: Ethylbenzene	100-41-4	25 µg/L	100	70.0	130

Sub-Matrix: **WATER**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP080: BTEXN (QCLot: 4102634) - continued							
ES2146997-001	Anonymous	EP080: meta- & para-Xylene	108-38-3 106-42-3	25 µg/L	99.5	70.0	130
		EP080: ortho-Xylene	95-47-6	25 µg/L	104	70.0	130
		EP080: Naphthalene	91-20-3	25 µg/L	106	70.0	130
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4107171)							
ES2146990-025	R05_20211221	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.25 µg/L	124	72.0	130
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.25 µg/L	113	71.0	127
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.25 µg/L	96.4	68.0	131
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.25 µg/L	111	69.0	134
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.25 µg/L	104	65.0	140
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.25 µg/L	118	53.0	142
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4107171)							
ES2146990-025	R05_20211221	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	1.25 µg/L	84.4	73.0	129
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.25 µg/L	105	72.0	129
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.25 µg/L	123	72.0	129
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.25 µg/L	129	72.0	130
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.25 µg/L	123	71.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.25 µg/L	114	69.0	130
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.25 µg/L	124	71.0	129
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.25 µg/L	120	69.0	133
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.25 µg/L	116	72.0	134
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.25 µg/L	121	65.0	144
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.625 µg/L	114	71.0	132
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4107171)							
ES2146990-025	R05_20211221	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.25 µg/L	117	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.625 µg/L	101	68.0	141
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.625 µg/L	102	62.6	147
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.625 µg/L	105	66.0	145
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.625 µg/L	118	57.6	145
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.25 µg/L	112	65.0	136
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.25 µg/L	124	61.0	135
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4107171)							
ES2146990-025	R05_20211221	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.25 µg/L	103	63.0	143

Sub-Matrix: **WATER**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*Concentration*	*MS*	*Low*	*High*
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4107171) - continued							
ES2146990-025	R05_20211221	EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.25 µg/L	104	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.25 µg/L	123	67.0	138
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.25 µg/L	116	71.4	144

ALS Environmental

QA/QC Compliance Assessment to assist with Quality Review

Work Order	: **ES2146990**	Page	: 1 of 27
Amendment	: **3**		
Client	: **ENVIRONMENTAL RESOURCES MANAGEMENT (ERM)**	Laboratory	: Environmental Division Sydney
Contact	: MS JESSICA LAWRENCE	Telephone	: +61-2-8784 8555
Project	: 0577577 - Burwood	Date Samples Received	: 22-Dec-2021
Site	: ----	Issue Date	: 02-Feb-2022
Sampler	: TRISTAN RODRIGUES	No. of samples received	: 58
Order number	: ----	No. of samples analysed	: 51

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers : Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- **NO Method Blank value outliers occur.**
- **NO Duplicate outliers occur.**
- **NO Laboratory Control outliers occur.**
- **NO Matrix Spike outliers occur.**
- **Surrogate recovery outliers exist for all regular sample matrices - please see following pages for full details.**

Outliers : Analysis Holding Time Compliance

- **Analysis Holding Time Outliers exist - please see following pages for full details.**

Outliers : Frequency of Quality Control Samples

- **Quality Control Sample Frequency Outliers exist - please see following pages for full details.**

Regular Sample Surrogates

Sub-Matrix: **SOIL**

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Samples Submitted							
EP080S: TPH(V)/BTEX Surrogates	ES2146990-007	D05_20211220	**4-Bromofluorobenzene**	460-00-4	70.8 %	71.6-130 %	**Recovery less than lower data quality objective**

Outliers : Analysis Holding Time Compliance

Matrix: **WATER**

Method / Container / Client Sample ID(s)	Extraction / Preparation: Date extracted	Extraction / Preparation: Due for extraction	Extraction / Preparation: Days overdue	Analysis: Date analysed	Analysis: Due for analysis	Analysis: Days overdue
EP080/071: Total Petroleum Hydrocarbons						
Amber Glass Bottle - Unpreserved						
R04_20211220	28-Dec-2021	27-Dec-2021	**1**	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions						
Amber Glass Bottle - Unpreserved						
R04_20211220	28-Dec-2021	27-Dec-2021	**1**	----	----	----

Outliers : Frequency of Quality Control Samples

Matrix: **WATER**

Quality Control Sample Type / Method	Count: QC	Count: Regular	Rate (%): Actual	Rate (%): Expected	Quality Control Specification
Laboratory Duplicates (DUP)					
TRH - Semivolatile Fraction	0	14	0.00	10.00	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)					
TRH - Semivolatile Fraction	0	14	0.00	5.00	NEPM 2013 B3 & ALS QC Standard

Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for ***VOC in soils*** vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation: Date extracted	Extraction / Preparation: Due for extraction	Extraction / Preparation: Evaluation	Analysis: Date analysed	Analysis: Due for analysis	Analysis: Evaluation

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EA055: Moisture Content (Dried @ 105-110°C)							
Soil Glass Jar - Unpreserved (EA055)							
BUR_BH109_0.2, BUR_BH109_0.5, BUR_BH109_1.0, BUR_BH109_3.0, BUR_BH111_0.2, BUR_BH111_0.5, D05_20211220, BUR_BH111_2.0, BUR_BH111_5.0, BUR_BH110_0.2, BUR_BH110_0.5, BUR_BH110_1.0, BUR_BH110_5.0, BUR_BH113_0.2, BUR_BH113_1.0, BUR_BH113_2.0, D06__2021220, BUR_BH113_5.0, BUR_BH114_0.2, BUR_BH114_0.5, BUR_BH114_5.0, BUR_BH114_10.0, BUR_BH114_15.0	**20-Dec-2021**	**----**	----	----	**29-Dec-2021**	03-Jan-2022	✓
Soil Glass Jar - Unpreserved (EA055)							
BUR_BH115_0.2, BUR_BH115_0.5	**21-Dec-2021**	**----**	----	----	**29-Dec-2021**	04-Jan-2022	✓
Soil Glass Jar - Unpreserved (EA055)							
BUR_BH115_1.0, BUR_BH115_5.0, BUR_BH115_10.0, BUR_BH115_15.0, BUR_BH117_0.2, BUR_BH117_1.0, BUR_BH117_3.0, D08_20211221, BUR_BH125_0.2, BUR_BH125_0.5, BUR_BH125_5.0, BUR_BH101_0.1, BUR_BH112_0.2, BUR_BH112_0.5, BUR_BH112_5.0, BUR_BH116_0.2, D07_20211221, BUR_BH116_0.5, BUR_BH116_3.0	**21-Dec-2021**	**----**	----	----	**30-Dec-2021**	04-Jan-2022	✓
Soil Glass Jar - Unpreserved (EA055)							
BUR_BH101_2.0	**21-Dec-2021**	**----**	----	----	**31-Dec-2021**	04-Jan-2022	✓
EA200: AS 4964 - 2004 Identification of Asbestos in Soils							
Snap Lock Bag (EA200)							
BUR_BH109_0.2, BUR_BH113_0.2, BUR_BH114_0.2	**20-Dec-2021**	**----**	----	----	**24-Dec-2021**	18-Jun-2022	✓
Snap Lock Bag (EA200)							
BUR_BH115_0.2, BUR_BH117_0.2, BUR_BH125_0.2, BUR_BH101_0.1, BUR_BH112_0.2	**21-Dec-2021**	**----**	----	----	**24-Dec-2021**	19-Jun-2022	✓

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EG005(ED093)T: Total Metals by ICP-AES							
Soil Glass Jar - Unpreserved (EG005T)							
BUR_BH109_0.2, BUR_BH109_0.5, BUR_BH109_1.0, BUR_BH109_3.0, BUR_BH111_0.2, BUR_BH111_0.5, D05_20211220, BUR_BH111_2.0, BUR_BH111_5.0, BUR_BH110_0.2, BUR_BH110_0.5, BUR_BH110_1.0, BUR_BH110_5.0, BUR_BH113_0.2, BUR_BH113_1.0, BUR_BH113_2.0, D06__2021220, BUR_BH113_5.0, BUR_BH114_0.2, BUR_BH114_0.5, BUR_BH114_5.0, BUR_BH114_10.0, BUR_BH114_15.0	**20-Dec-2021**	**29-Dec-2021**	18-Jun-2022	✓	**31-Dec-2021**	18-Jun-2022	✓
Soil Glass Jar - Unpreserved (EG005T)							
BUR_BH115_0.2, BUR_BH115_0.5	**21-Dec-2021**	**29-Dec-2021**	19-Jun-2022	✓	**31-Dec-2021**	19-Jun-2022	✓
Soil Glass Jar - Unpreserved (EG005T)							
BUR_BH115_1.0, BUR_BH115_5.0, BUR_BH115_10.0, BUR_BH115_15.0, BUR_BH117_0.2, BUR_BH117_1.0, BUR_BH117_3.0, D08_20211221, BUR_BH125_0.2, BUR_BH125_0.5, BUR_BH125_5.0, BUR_BH101_0.1, BUR_BH112_0.2, BUR_BH112_0.5, BUR_BH112_5.0, BUR_BH116_0.2, D07_20211221, BUR_BH116_0.5, BUR_BH116_3.0	**21-Dec-2021**	**30-Dec-2021**	19-Jun-2022	✓	**31-Dec-2021**	19-Jun-2022	✓

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EG035T: Total Recoverable Mercury by FIMS							
Soil Glass Jar - Unpreserved (EG035T)							
BUR_BH109_0.2, BUR_BH109_0.5, BUR_BH109_1.0, BUR_BH109_3.0, BUR_BH111_0.2, BUR_BH111_0.5, D05_20211220, BUR_BH111_2.0, BUR_BH111_5.0, BUR_BH110_0.2, BUR_BH110_0.5, BUR_BH110_1.0, BUR_BH110_5.0, BUR_BH113_0.2, BUR_BH113_1.0, BUR_BH113_2.0, D06__2021220, BUR_BH113_5.0, BUR_BH114_0.2, BUR_BH114_0.5, BUR_BH114_5.0, BUR_BH114_10.0, BUR_BH114_15.0	**20-Dec-2021**	**29-Dec-2021**	17-Jan-2022	✓	**31-Dec-2021**	17-Jan-2022	✓
Soil Glass Jar - Unpreserved (EG035T)							
BUR_BH115_0.2, BUR_BH115_0.5	**21-Dec-2021**	**29-Dec-2021**	18-Jan-2022	✓	**31-Dec-2021**	18-Jan-2022	✓
Soil Glass Jar - Unpreserved (EG035T)							
BUR_BH115_1.0, BUR_BH115_5.0, BUR_BH115_10.0, BUR_BH115_15.0, BUR_BH117_0.2, BUR_BH117_1.0, BUR_BH117_3.0, D08_20211221, BUR_BH125_0.2, BUR_BH125_0.5, BUR_BH125_5.0, BUR_BH101_0.1, BUR_BH112_0.2, BUR_BH112_0.5, BUR_BH112_5.0, BUR_BH116_0.2, D07_20211221, BUR_BH116_0.5, BUR_BH116_3.0	**21-Dec-2021**	**30-Dec-2021**	18-Jan-2022	✓	**31-Dec-2021**	18-Jan-2022	✓

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP066: Polychlorinated Biphenyls (PCB)							
Soil Glass Jar - Unpreserved (EP066)							
BUR_BH109_0.2, BUR_BH109_0.5, BUR_BH109_1.0, BUR_BH109_3.0, BUR_BH111_0.2, BUR_BH111_0.5, D05_20211220, BUR_BH111_2.0, BUR_BH111_5.0, BUR_BH110_0.2, BUR_BH110_0.5, BUR_BH110_1.0, BUR_BH110_5.0, BUR_BH113_0.2, BUR_BH113_1.0, BUR_BH113_2.0, D06__2021220, BUR_BH113_5.0, BUR_BH114_0.2, BUR_BH114_0.5, BUR_BH114_5.0, BUR_BH114_10.0, BUR_BH114_15.0	**20-Dec-2021**	**30-Dec-2021**	03-Jan-2022	✓	**04-Jan-2022**	08-Feb-2022	✓
Soil Glass Jar - Unpreserved (EP066)							
BUR_BH115_0.2, BUR_BH115_0.5, BUR_BH115_1.0, BUR_BH115_5.0, BUR_BH115_10.0, BUR_BH115_15.0, BUR_BH117_0.2, BUR_BH117_1.0, BUR_BH117_3.0, D08_20211221, BUR_BH125_0.2, BUR_BH125_0.5, BUR_BH125_5.0, BUR_BH101_0.1, BUR_BH112_0.2, BUR_BH112_0.5, BUR_BH112_5.0, BUR_BH116_0.2, D07_20211221, BUR_BH116_0.5	**21-Dec-2021**	**30-Dec-2021**	04-Jan-2022	✓	**04-Jan-2022**	08-Feb-2022	✓
Soil Glass Jar - Unpreserved (EP066)							
BUR_BH116_3.0	**21-Dec-2021**	**30-Dec-2021**	04-Jan-2022	✓	**05-Jan-2022**	08-Feb-2022	✓

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP068A: Organochlorine Pesticides (OC)							
Soil Glass Jar - Unpreserved (EP068)							
BUR_BH109_0.2, BUR_BH109_0.5, BUR_BH109_1.0, BUR_BH109_3.0, BUR_BH111_0.2, BUR_BH111_0.5, D05_20211220, BUR_BH111_2.0, BUR_BH111_5.0, BUR_BH110_0.2, BUR_BH110_0.5, BUR_BH110_1.0, BUR_BH110_5.0, BUR_BH113_0.2, BUR_BH113_1.0, BUR_BH113_2.0, D06__2021220, BUR_BH113_5.0, BUR_BH114_0.2, BUR_BH114_0.5, BUR_BH114_5.0, BUR_BH114_10.0, BUR_BH114_15.0	**20-Dec-2021**	**30-Dec-2021**	03-Jan-2022	✓	**04-Jan-2022**	08-Feb-2022	✓
Soil Glass Jar - Unpreserved (EP068)							
BUR_BH115_0.2, BUR_BH115_0.5, BUR_BH115_1.0, BUR_BH115_5.0, BUR_BH115_10.0, BUR_BH115_15.0, BUR_BH117_0.2, BUR_BH117_1.0, BUR_BH117_3.0, D08_20211221, BUR_BH125_0.2, BUR_BH125_0.5, BUR_BH125_5.0, BUR_BH101_0.1, BUR_BH112_0.2, BUR_BH112_0.5, BUR_BH112_5.0, BUR_BH116_0.2, D07_20211221, BUR_BH116_0.5	**21-Dec-2021**	**30-Dec-2021**	04-Jan-2022	✓	**04-Jan-2022**	08-Feb-2022	✓
Soil Glass Jar - Unpreserved (EP068)							
BUR_BH116_3.0	**21-Dec-2021**	**30-Dec-2021**	04-Jan-2022	✓	**05-Jan-2022**	08-Feb-2022	✓

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP068B: Organophosphorus Pesticides (OP)							
Soil Glass Jar - Unpreserved (EP068)							
BUR_BH109_0.2, BUR_BH109_0.5, BUR_BH109_1.0, BUR_BH109_3.0, BUR_BH111_0.2, BUR_BH111_0.5, D05_20211220, BUR_BH111_2.0, BUR_BH111_5.0, BUR_BH110_0.2, BUR_BH110_0.5, BUR_BH110_1.0, BUR_BH110_5.0, BUR_BH113_0.2, BUR_BH113_1.0, BUR_BH113_2.0, D06__2021220, BUR_BH113_5.0, BUR_BH114_0.2, BUR_BH114_0.5, BUR_BH114_5.0, BUR_BH114_10.0, BUR_BH114_15.0	**20-Dec-2021**	**30-Dec-2021**	03-Jan-2022	✓	**04-Jan-2022**	08-Feb-2022	✓
Soil Glass Jar - Unpreserved (EP068)							
BUR_BH115_0.2, BUR_BH115_0.5, BUR_BH115_1.0, BUR_BH115_5.0, BUR_BH115_10.0, BUR_BH115_15.0, BUR_BH117_0.2, BUR_BH117_1.0, BUR_BH117_3.0, D08_20211221, BUR_BH125_0.2, BUR_BH125_0.5, BUR_BH125_5.0, BUR_BH101_0.1, BUR_BH112_0.2, BUR_BH112_0.5, BUR_BH112_5.0, BUR_BH116_0.2, D07_20211221, BUR_BH116_0.5	**21-Dec-2021**	**30-Dec-2021**	04-Jan-2022	✓	**04-Jan-2022**	08-Feb-2022	✓
Soil Glass Jar - Unpreserved (EP068)							
BUR_BH116_3.0	**21-Dec-2021**	**30-Dec-2021**	04-Jan-2022	✓	**05-Jan-2022**	08-Feb-2022	✓
EP074A: Monocyclic Aromatic Hydrocarbons							
Soil Glass Jar - Unpreserved (EP074)							
BUR_BH109_0.2, BUR_BH109_1.0, BUR_BH111_0.2, BUR_BH111_2.0, BUR_BH110_0.2, BUR_BH110_1.0, BUR_BH113_0.2, BUR_BH113_2.0, D06__2021220, BUR_BH114_0.5, BUR_BH114_10.0	**20-Dec-2021**	**24-Dec-2021**	27-Dec-2021	✓	**24-Dec-2021**	27-Dec-2021	✓
Soil Glass Jar - Unpreserved (EP074)							
BUR_BH115_0.2, BUR_BH115_1.0, BUR_BH115_10.0, BUR_BH117_0.2, D08_20211221, BUR_BH125_0.5, BUR_BH101_0.1, BUR_BH101_2.0, BUR_BH112_0.5, BUR_BH112_5.0, BUR_BH116_0.5	**21-Dec-2021**	**24-Dec-2021**	28-Dec-2021	✓	**24-Dec-2021**	28-Dec-2021	✓

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP074B: Oxygenated Compounds							
Soil Glass Jar - Unpreserved (EP074)							
BUR_BH109_0.2, BUR_BH109_1.0, BUR_BH111_0.2, BUR_BH111_2.0, BUR_BH110_0.2, BUR_BH110_1.0, BUR_BH113_0.2, BUR_BH113_2.0, D06__2021220, BUR_BH114_0.5, BUR_BH114_10.0	**20-Dec-2021**	**24-Dec-2021**	27-Dec-2021	✓	**24-Dec-2021**	27-Dec-2021	✓
Soil Glass Jar - Unpreserved (EP074)							
BUR_BH115_0.2, BUR_BH115_1.0, BUR_BH115_10.0, BUR_BH117_0.2, D08_20211221, BUR_BH125_0.5, BUR_BH101_0.1, BUR_BH101_2.0, BUR_BH112_0.5, BUR_BH112_5.0, BUR_BH116_0.5	**21-Dec-2021**	**24-Dec-2021**	28-Dec-2021	✓	**24-Dec-2021**	28-Dec-2021	✓
EP074C: Sulfonated Compounds							
Soil Glass Jar - Unpreserved (EP074)							
BUR_BH109_0.2, BUR_BH109_1.0, BUR_BH111_0.2, BUR_BH111_2.0, BUR_BH110_0.2, BUR_BH110_1.0, BUR_BH113_0.2, BUR_BH113_2.0, D06__2021220, BUR_BH114_0.5, BUR_BH114_10.0	**20-Dec-2021**	**24-Dec-2021**	27-Dec-2021	✓	**24-Dec-2021**	27-Dec-2021	✓
Soil Glass Jar - Unpreserved (EP074)							
BUR_BH115_0.2, BUR_BH115_1.0, BUR_BH115_10.0, BUR_BH117_0.2, D08_20211221, BUR_BH125_0.5, BUR_BH101_0.1, BUR_BH101_2.0, BUR_BH112_0.5, BUR_BH112_5.0, BUR_BH116_0.5	**21-Dec-2021**	**24-Dec-2021**	28-Dec-2021	✓	**24-Dec-2021**	28-Dec-2021	✓

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP074D: Fumigants							
Soil Glass Jar - Unpreserved (EP074)							
BUR_BH109_0.2, BUR_BH109_1.0, BUR_BH111_0.2, BUR_BH111_2.0, BUR_BH110_0.2, BUR_BH110_1.0, BUR_BH113_0.2, BUR_BH113_2.0, D06__2021220, BUR_BH114_0.5, BUR_BH114_10.0	**20-Dec-2021**	**24-Dec-2021**	27-Dec-2021	✓	**24-Dec-2021**	27-Dec-2021	✓
Soil Glass Jar - Unpreserved (EP074)							
BUR_BH115_0.2, BUR_BH115_1.0, BUR_BH115_10.0, BUR_BH117_0.2, D08_20211221, BUR_BH125_0.5, BUR_BH101_0.1, BUR_BH101_2.0, BUR_BH112_0.5, BUR_BH112_5.0, BUR_BH116_0.5	**21-Dec-2021**	**24-Dec-2021**	28-Dec-2021	✓	**24-Dec-2021**	28-Dec-2021	✓
EP074E: Halogenated Aliphatic Compounds							
Soil Glass Jar - Unpreserved (EP074)							
BUR_BH109_0.2, BUR_BH109_1.0, BUR_BH111_0.2, BUR_BH111_2.0, BUR_BH110_0.2, BUR_BH110_1.0, BUR_BH113_0.2, BUR_BH113_2.0, D06__2021220, BUR_BH114_0.5, BUR_BH114_10.0	**20-Dec-2021**	**24-Dec-2021**	27-Dec-2021	✓	**24-Dec-2021**	27-Dec-2021	✓
Soil Glass Jar - Unpreserved (EP074)							
BUR_BH115_0.2, BUR_BH115_1.0, BUR_BH115_10.0, BUR_BH117_0.2, D08_20211221, BUR_BH125_0.5, BUR_BH101_0.1, BUR_BH101_2.0, BUR_BH112_0.5, BUR_BH112_5.0, BUR_BH116_0.5	**21-Dec-2021**	**24-Dec-2021**	28-Dec-2021	✓	**24-Dec-2021**	28-Dec-2021	✓

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP074F: Halogenated Aromatic Compounds							
Soil Glass Jar - Unpreserved (EP074)							
BUR_BH109_0.2, BUR_BH109_1.0, BUR_BH111_0.2, BUR_BH111_2.0, BUR_BH110_0.2, BUR_BH110_1.0, BUR_BH113_0.2, BUR_BH113_2.0, D06__2021220, BUR_BH114_0.5, BUR_BH114_10.0	**20-Dec-2021**	**24-Dec-2021**	27-Dec-2021	✓	**24-Dec-2021**	27-Dec-2021	✓
Soil Glass Jar - Unpreserved (EP074)							
BUR_BH115_0.2, BUR_BH115_1.0, BUR_BH115_10.0, BUR_BH117_0.2, D08_20211221, BUR_BH125_0.5, BUR_BH101_0.1, BUR_BH101_2.0, BUR_BH112_0.5, BUR_BH112_5.0, BUR_BH116_0.5	**21-Dec-2021**	**24-Dec-2021**	28-Dec-2021	✓	**24-Dec-2021**	28-Dec-2021	✓
EP074G: Trihalomethanes							
Soil Glass Jar - Unpreserved (EP074)							
BUR_BH109_0.2, BUR_BH109_1.0, BUR_BH111_0.2, BUR_BH111_2.0, BUR_BH110_0.2, BUR_BH110_1.0, BUR_BH113_0.2, BUR_BH113_2.0, D06__2021220, BUR_BH114_0.5, BUR_BH114_10.0	**20-Dec-2021**	**24-Dec-2021**	27-Dec-2021	✓	**24-Dec-2021**	27-Dec-2021	✓
Soil Glass Jar - Unpreserved (EP074)							
BUR_BH115_0.2, BUR_BH115_1.0, BUR_BH115_10.0, BUR_BH117_0.2, D08_20211221, BUR_BH125_0.5, BUR_BH101_0.1, BUR_BH101_2.0, BUR_BH112_0.5, BUR_BH112_5.0, BUR_BH116_0.5	**21-Dec-2021**	**24-Dec-2021**	28-Dec-2021	✓	**24-Dec-2021**	28-Dec-2021	✓

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP074H: Naphthalene							
Soil Glass Jar - Unpreserved (EP074)							
BUR_BH109_0.2, BUR_BH109_1.0, BUR_BH111_0.2, BUR_BH111_2.0, BUR_BH110_0.2, BUR_BH110_1.0, BUR_BH113_0.2, BUR_BH113_2.0, D06__2021220, BUR_BH114_0.5, BUR_BH114_10.0	**20-Dec-2021**	**24-Dec-2021**	27-Dec-2021	✓	**24-Dec-2021**	27-Dec-2021	✓
Soil Glass Jar - Unpreserved (EP074)							
BUR_BH115_0.2, BUR_BH115_1.0, BUR_BH115_10.0, BUR_BH117_0.2, D08_20211221, BUR_BH125_0.5, BUR_BH101_0.1, BUR_BH101_2.0, BUR_BH112_0.5, BUR_BH112_5.0, BUR_BH116_0.5	**21-Dec-2021**	**24-Dec-2021**	28-Dec-2021	✓	**24-Dec-2021**	28-Dec-2021	✓
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons							
Soil Glass Jar - Unpreserved (EP075(SIM))							
BUR_BH109_0.2, BUR_BH109_0.5, BUR_BH109_1.0, BUR_BH109_3.0, BUR_BH111_0.2, BUR_BH111_0.5, D05_20211220, BUR_BH111_2.0, BUR_BH111_5.0, BUR_BH110_0.2, BUR_BH110_0.5, BUR_BH110_1.0, BUR_BH110_5.0, BUR_BH113_0.2, BUR_BH113_1.0, BUR_BH113_2.0, D06__2021220, BUR_BH113_5.0, BUR_BH114_0.2, BUR_BH114_0.5, BUR_BH114_5.0, BUR_BH114_10.0, BUR_BH114_15.0	**20-Dec-2021**	**30-Dec-2021**	03-Jan-2022	✓	**04-Jan-2022**	08-Feb-2022	✓
Soil Glass Jar - Unpreserved (EP075(SIM))							
BUR_BH115_0.2, BUR_BH115_0.5, BUR_BH115_1.0, BUR_BH115_5.0, BUR_BH115_10.0, BUR_BH115_15.0, BUR_BH117_0.2, BUR_BH117_1.0, BUR_BH117_3.0, D08_20211221, BUR_BH125_0.2, BUR_BH125_0.5, BUR_BH125_5.0, BUR_BH101_0.1, BUR_BH112_0.2, BUR_BH112_0.5, BUR_BH112_5.0, BUR_BH116_0.2, D07_20211221, BUR_BH116_0.5	**21-Dec-2021**	**30-Dec-2021**	04-Jan-2022	✓	**04-Jan-2022**	08-Feb-2022	✓
Soil Glass Jar - Unpreserved (EP075(SIM))							
BUR_BH116_3.0	**21-Dec-2021**	**30-Dec-2021**	04-Jan-2022	✓	**31-Dec-2021**	08-Feb-2022	✓

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP080/071: Total Petroleum Hydrocarbons							
Soil Glass Jar - Unpreserved (EP080)							
BUR_BH109_0.2, BUR_BH109_1.0, BUR_BH111_0.2, BUR_BH111_2.0, BUR_BH110_0.2, BUR_BH110_1.0, BUR_BH113_0.2, BUR_BH113_2.0, D06__2021220, BUR_BH114_0.5, BUR_BH114_10.0	**20-Dec-2021**	**24-Dec-2021**	03-Jan-2022	✓	**24-Dec-2021**	03-Jan-2022	✓
Soil Glass Jar - Unpreserved (EP080)							
BUR_BH109_0.5, BUR_BH109_3.0, BUR_BH111_0.5, D05_20211220, BUR_BH111_5.0, BUR_BH110_0.5, BUR_BH110_5.0, BUR_BH113_1.0, BUR_BH113_5.0, BUR_BH114_0.2, BUR_BH114_5.0, BUR_BH114_15.0	**20-Dec-2021**	**24-Dec-2021**	03-Jan-2022	✓	**31-Dec-2021**	03-Jan-2022	✓
Soil Glass Jar - Unpreserved (EP071)							
BUR_BH109_0.2, BUR_BH109_0.5, BUR_BH109_1.0, BUR_BH109_3.0, BUR_BH111_0.2, BUR_BH111_0.5, D05_20211220, BUR_BH111_2.0, BUR_BH111_5.0, BUR_BH110_0.2, BUR_BH110_0.5, BUR_BH110_1.0, BUR_BH110_5.0, BUR_BH113_0.2, BUR_BH113_1.0, BUR_BH113_2.0, D06__2021220, BUR_BH113_5.0, BUR_BH114_0.2, BUR_BH114_0.5, BUR_BH114_5.0, BUR_BH114_10.0, BUR_BH114_15.0	**20-Dec-2021**	**30-Dec-2021**	03-Jan-2022	✓	**04-Jan-2022**	08-Feb-2022	✓
Soil Glass Jar - Unpreserved (EP080)							
TB	**20-Dec-2021**	**30-Dec-2021**	03-Jan-2022	✓	**31-Dec-2021**	03-Jan-2022	✓
Soil Glass Jar - Unpreserved (EP080)							
BUR_BH115_0.2, BUR_BH115_1.0, BUR_BH115_10.0, BUR_BH117_0.2, D08_20211221, BUR_BH125_0.5, BUR_BH101_0.1, BUR_BH112_0.5, BUR_BH112_5.0, BUR_BH116_0.5	**21-Dec-2021**	**24-Dec-2021**	04-Jan-2022	✓	**24-Dec-2021**	04-Jan-2022	✓
Soil Glass Jar - Unpreserved (EP080)							
BUR_BH115_0.5, BUR_BH115_5.0, BUR_BH115_15.0, BUR_BH117_1.0, BUR_BH117_3.0, BUR_BH125_0.2, BUR_BH125_5.0	**21-Dec-2021**	**24-Dec-2021**	04-Jan-2022	✓	**31-Dec-2021**	04-Jan-2022	✓
Soil Glass Jar - Unpreserved (EP071)							

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)		Sample Date	Extraction / Preparation			Analysis		
			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP080/071: Total Petroleum Hydrocarbons - Continued								
BUR_BH115_0.2,	BUR_BH115_0.5,	**21-Dec-2021**	**30-Dec-2021**	04-Jan-2022	✓	**04-Jan-2022**	08-Feb-2022	✓
BUR_BH115_1.0,	BUR_BH115_5.0,							
BUR_BH115_10.0,	BUR_BH115_15.0,							
BUR_BH117_0.2,	BUR_BH117_1.0,							
BUR_BH117_3.0,	D08_20211221,							
BUR_BH125_0.2,	BUR_BH125_0.5,							
BUR_BH125_5.0,	BUR_BH101_0.1,							
BUR_BH112_0.2,	BUR_BH112_0.5,							
BUR_BH112_5.0,	BUR_BH116_0.2,							
D07_20211221,	BUR_BH116_0.5,							
BUR_BH116_3.0								
Soil Glass Jar - Unpreserved (EP080)								
BUR_BH112_0.2,	BUR_BH116_0.2,	**21-Dec-2021**	**30-Dec-2021**	04-Jan-2022	✓	**31-Dec-2021**	04-Jan-2022	✓
D07_20211221,	BUR_BH116_3.0							

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions							
Soil Glass Jar - Unpreserved (EP080)							
BUR_BH109_0.2, BUR_BH109_1.0, BUR_BH111_0.2, BUR_BH111_2.0, BUR_BH110_0.2, BUR_BH110_1.0, BUR_BH113_0.2, BUR_BH113_2.0, D06__2021220, BUR_BH114_0.5, BUR_BH114_10.0	**20-Dec-2021**	**24-Dec-2021**	03-Jan-2022	✓	**24-Dec-2021**	03-Jan-2022	✓
Soil Glass Jar - Unpreserved (EP080)							
BUR_BH109_0.5, BUR_BH109_3.0, BUR_BH111_0.5, D05_20211220, BUR_BH111_5.0, BUR_BH110_0.5, BUR_BH110_5.0, BUR_BH113_1.0, BUR_BH113_5.0, BUR_BH114_0.2, BUR_BH114_5.0, BUR_BH114_15.0	**20-Dec-2021**	**24-Dec-2021**	03-Jan-2022	✓	**31-Dec-2021**	03-Jan-2022	✓
Soil Glass Jar - Unpreserved (EP071)							
BUR_BH109_0.2, BUR_BH109_0.5, BUR_BH109_1.0, BUR_BH109_3.0, BUR_BH111_0.2, BUR_BH111_0.5, D05_20211220, BUR_BH111_2.0, BUR_BH111_5.0, BUR_BH110_0.2, BUR_BH110_0.5, BUR_BH110_1.0, BUR_BH110_5.0, BUR_BH113_0.2, BUR_BH113_1.0, BUR_BH113_2.0, D06__2021220, BUR_BH113_5.0, BUR_BH114_0.2, BUR_BH114_0.5, BUR_BH114_5.0, BUR_BH114_10.0, BUR_BH114_15.0	**20-Dec-2021**	**30-Dec-2021**	03-Jan-2022	✓	**04-Jan-2022**	08-Feb-2022	✓
Soil Glass Jar - Unpreserved (EP080)							
TB	**20-Dec-2021**	**30-Dec-2021**	03-Jan-2022	✓	**31-Dec-2021**	03-Jan-2022	✓
Soil Glass Jar - Unpreserved (EP080)							
BUR_BH115_0.2, BUR_BH115_1.0, BUR_BH115_10.0, BUR_BH117_0.2, D08_20211221, BUR_BH125_0.5, BUR_BH101_0.1, BUR_BH112_0.5, BUR_BH112_5.0, BUR_BH116_0.5	**21-Dec-2021**	**24-Dec-2021**	04-Jan-2022	✓	**24-Dec-2021**	04-Jan-2022	✓
Soil Glass Jar - Unpreserved (EP080)							
BUR_BH115_0.5, BUR_BH115_5.0, BUR_BH115_15.0, BUR_BH117_1.0, BUR_BH117_3.0, BUR_BH125_0.2, BUR_BH125_5.0	**21-Dec-2021**	**24-Dec-2021**	04-Jan-2022	✓	**31-Dec-2021**	04-Jan-2022	✓
Soil Glass Jar - Unpreserved (EP071)							

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued							
BUR_BH115_0.2, BUR_BH115_0.5, BUR_BH115_1.0, BUR_BH115_5.0, BUR_BH115_10.0, BUR_BH115_15.0, BUR_BH117_0.2, BUR_BH117_1.0, BUR_BH117_3.0, D08_20211221, BUR_BH125_0.2, BUR_BH125_0.5, BUR_BH125_5.0, BUR_BH101_0.1, BUR_BH112_0.2, BUR_BH112_0.5, BUR_BH112_5.0, BUR_BH116_0.2, D07_20211221, BUR_BH116_0.5, BUR_BH116_3.0	**21-Dec-2021**	**30-Dec-2021**	04-Jan-2022	✓	**04-Jan-2022**	08-Feb-2022	✓
Soil Glass Jar - Unpreserved (EP080)							
BUR_BH112_0.2, BUR_BH116_0.2, D07_20211221, BUR_BH116_3.0	**21-Dec-2021**	**30-Dec-2021**	04-Jan-2022	✓	**31-Dec-2021**	04-Jan-2022	✓

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)		Sample Date	Extraction / Preparation			Analysis		
			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP080: BTEXN								
Soil Glass Jar - Unpreserved (EP080)								
BUR_BH109_0.2,	BUR_BH109_1.0,	**20-Dec-2021**	**24-Dec-2021**	03-Jan-2022	✓	**24-Dec-2021**	03-Jan-2022	✓
BUR_BH111_0.2,	BUR_BH111_2.0,							
BUR_BH110_0.2,	BUR_BH110_1.0,							
BUR_BH113_0.2,	BUR_BH113_2.0,							
D06__2021220,	BUR_BH114_0.5,							
BUR_BH114_10.0								
Soil Glass Jar - Unpreserved (EP080)								
BUR_BH109_0.5,	BUR_BH109_3.0,	**20-Dec-2021**	**24-Dec-2021**	03-Jan-2022	✓	**31-Dec-2021**	03-Jan-2022	✓
BUR_BH111_0.5,	D05_20211220,							
BUR_BH111_5.0,	BUR_BH110_0.5,							
BUR_BH110_5.0,	BUR_BH113_1.0,							
BUR_BH113_5.0,	BUR_BH114_0.2,							
BUR_BH114_5.0,	BUR_BH114_15.0,							
TS 22								
Soil Glass Jar - Unpreserved (EP080)								
TB,	Trip Spike Control 22	**20-Dec-2021**	**30-Dec-2021**	03-Jan-2022	✓	**31-Dec-2021**	03-Jan-2022	✓
Soil Glass Jar - Unpreserved (EP080)								
BUR_BH115_0.2,	BUR_BH115_1.0,	**21-Dec-2021**	**24-Dec-2021**	04-Jan-2022	✓	**24-Dec-2021**	04-Jan-2022	✓
BUR_BH115_10.0,	BUR_BH117_0.2,							
D08_20211221,	BUR_BH125_0.5,							
BUR_BH101_0.1,	BUR_BH112_0.5,							
BUR_BH112_5.0,	BUR_BH116_0.5							
Soil Glass Jar - Unpreserved (EP080)								
BUR_BH115_0.5,	BUR_BH115_5.0,	**21-Dec-2021**	**24-Dec-2021**	04-Jan-2022	✓	**31-Dec-2021**	04-Jan-2022	✓
BUR_BH115_15.0,	BUR_BH117_1.0,							
BUR_BH117_3.0,	BUR_BH125_0.2,							
BUR_BH125_5.0								
Soil Glass Jar - Unpreserved (EP080)								
BUR_BH112_0.2,	BUR_BH116_0.2,	**21-Dec-2021**	**30-Dec-2021**	04-Jan-2022	✓	**31-Dec-2021**	04-Jan-2022	✓
D07_20211221,	BUR_BH116_3.0							

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP231A: Perfluoroalkyl Sulfonic Acids							
HDPE Soil Jar (EP231X) BUR_BH109_0.2, BUR_BH109_3.0, BUR_BH111_0.5, D05_20211220, BUR_BH111_5.0, BUR_BH110_0.2, BUR_BH110_5.0, BUR_BH113_0.2, BUR_BH113_5.0, BUR_BH114_0.2, BUR_BH114_15.0	**20-Dec-2021**	**31-Dec-2021**	18-Jun-2022	✓	**05-Jan-2022**	09-Feb-2022	✓
HDPE Soil Jar (EP231X) BUR_BH112_5.0, BUR_BH116_0.2, D07_20211221, BUR_BH116_3.0	**21-Dec-2021**	**05-Jan-2022**	19-Jun-2022	✓	**06-Jan-2022**	14-Feb-2022	✓
HDPE Soil Jar (EP231X) BUR_BH115_0.2, BUR_BH115_15.0, BUR_BH117_0.2, BUR_BH117_3.0, D08_20211221, BUR_BH125_0.2, BUR_BH125_5.0, BUR_BH101_0.1, BUR_BH112_0.2	**21-Dec-2021**	**31-Dec-2021**	19-Jun-2022	✓	**05-Jan-2022**	09-Feb-2022	✓
EP231B: Perfluoroalkyl Carboxylic Acids							
HDPE Soil Jar (EP231X) BUR_BH109_0.2, BUR_BH109_3.0, BUR_BH111_0.5, D05_20211220, BUR_BH111_5.0, BUR_BH110_0.2, BUR_BH110_5.0, BUR_BH113_0.2, BUR_BH113_5.0, BUR_BH114_0.2, BUR_BH114_15.0	**20-Dec-2021**	**31-Dec-2021**	18-Jun-2022	✓	**05-Jan-2022**	09-Feb-2022	✓
HDPE Soil Jar (EP231X) BUR_BH112_5.0, BUR_BH116_0.2, D07_20211221, BUR_BH116_3.0	**21-Dec-2021**	**05-Jan-2022**	19-Jun-2022	✓	**06-Jan-2022**	14-Feb-2022	✓
HDPE Soil Jar (EP231X) BUR_BH115_0.2, BUR_BH115_15.0, BUR_BH117_0.2, BUR_BH117_3.0, D08_20211221, BUR_BH125_0.2, BUR_BH125_5.0, BUR_BH101_0.1, BUR_BH112_0.2	**21-Dec-2021**	**31-Dec-2021**	19-Jun-2022	✓	**05-Jan-2022**	09-Feb-2022	✓

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP231C: Perfluoroalkyl Sulfonamides							
HDPE Soil Jar (EP231X) BUR_BH109_0.2, BUR_BH109_3.0, BUR_BH111_0.5, D05_20211220, BUR_BH111_5.0, BUR_BH110_0.2, BUR_BH110_5.0, BUR_BH113_0.2, BUR_BH113_5.0, BUR_BH114_0.2, BUR_BH114_15.0	**20-Dec-2021**	**31-Dec-2021**	18-Jun-2022	✓	**05-Jan-2022**	09-Feb-2022	✓
HDPE Soil Jar (EP231X) BUR_BH112_5.0, BUR_BH116_0.2, D07_20211221, BUR_BH116_3.0	**21-Dec-2021**	**05-Jan-2022**	19-Jun-2022	✓	**06-Jan-2022**	14-Feb-2022	✓
HDPE Soil Jar (EP231X) BUR_BH115_0.2, BUR_BH115_15.0, BUR_BH117_0.2, BUR_BH117_3.0, D08_20211221, BUR_BH125_0.2, BUR_BH125_5.0, BUR_BH101_0.1, BUR_BH112_0.2	**21-Dec-2021**	**31-Dec-2021**	19-Jun-2022	✓	**05-Jan-2022**	09-Feb-2022	✓
EP231D: (n:2) Fluorotelomer Sulfonic Acids							
HDPE Soil Jar (EP231X) BUR_BH109_0.2, BUR_BH109_3.0, BUR_BH111_0.5, D05_20211220, BUR_BH111_5.0, BUR_BH110_0.2, BUR_BH110_5.0, BUR_BH113_0.2, BUR_BH113_5.0, BUR_BH114_0.2, BUR_BH114_15.0	**20-Dec-2021**	**31-Dec-2021**	18-Jun-2022	✓	**05-Jan-2022**	09-Feb-2022	✓
HDPE Soil Jar (EP231X) BUR_BH112_5.0, BUR_BH116_0.2, D07_20211221, BUR_BH116_3.0	**21-Dec-2021**	**05-Jan-2022**	19-Jun-2022	✓	**06-Jan-2022**	14-Feb-2022	✓
HDPE Soil Jar (EP231X) BUR_BH115_0.2, BUR_BH115_15.0, BUR_BH117_0.2, BUR_BH117_3.0, D08_20211221, BUR_BH125_0.2, BUR_BH125_5.0, BUR_BH101_0.1, BUR_BH112_0.2	**21-Dec-2021**	**31-Dec-2021**	19-Jun-2022	✓	**05-Jan-2022**	09-Feb-2022	✓

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP231P: PFAS Sums							
HDPE Soil Jar (EP231X) BUR_BH109_0.2, BUR_BH109_3.0, BUR_BH111_0.5, D05_20211220, BUR_BH111_5.0, BUR_BH110_0.2, BUR_BH110_5.0, BUR_BH113_0.2, BUR_BH113_5.0, BUR_BH114_0.2, BUR_BH114_15.0	**20-Dec-2021**	**31-Dec-2021**	18-Jun-2022	✓	**05-Jan-2022**	09-Feb-2022	✓
HDPE Soil Jar (EP231X) BUR_BH112_5.0, BUR_BH116_0.2, D07_20211221, BUR_BH116_3.0	**21-Dec-2021**	**05-Jan-2022**	19-Jun-2022	✓	**06-Jan-2022**	14-Feb-2022	✓
HDPE Soil Jar (EP231X) BUR_BH115_0.2, BUR_BH115_15.0, BUR_BH117_0.2, BUR_BH117_3.0, D08_20211221, BUR_BH125_0.2, BUR_BH125_5.0, BUR_BH101_0.1, BUR_BH112_0.2	**21-Dec-2021**	**31-Dec-2021**	19-Jun-2022	✓	**05-Jan-2022**	09-Feb-2022	✓

Matrix: **SOLID**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EA200: AS 4964 - 2004 Identification of Asbestos in bulk samples							
Snap Lock Bag (EA200) BUR_BH116_0.2 ACM	**21-Dec-2021**	**----**	----	----	**24-Dec-2021**	19-Jun-2022	✓

Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EG020T: Total Metals by ICP-MS							
Clear Plastic Bottle - Nitric Acid; Unfiltered (EG020A-T) R04_20211220	**20-Dec-2021**	**04-Jan-2022**	18-Jun-2022	✓	**04-Jan-2022**	18-Jun-2022	✓
Clear Plastic Bottle - Nitric Acid; Unfiltered (EG020A-T) R05_20211221	**21-Dec-2021**	**04-Jan-2022**	19-Jun-2022	✓	**04-Jan-2022**	19-Jun-2022	✓
EG035T: Total Recoverable Mercury by FIMS							
Clear Plastic Bottle - Nitric Acid; Unfiltered (EG035T) R04_20211220	**20-Dec-2021**	**----**	----	----	**04-Jan-2022**	17-Jan-2022	✓
Clear Plastic Bottle - Nitric Acid; Unfiltered (EG035T) R05_20211221	**21-Dec-2021**	**----**	----	----	**04-Jan-2022**	18-Jan-2022	✓

Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP080/071: Total Petroleum Hydrocarbons							
Amber Glass Bottle - Unpreserved (EP071)							
R04_20211220	**20-Dec-2021**	**28-Dec-2021**	27-Dec-2021	×	**31-Dec-2021**	06-Feb-2022	✓
Amber Glass Bottle - Unpreserved (EP071)							
R05_20211221	**21-Dec-2021**	**28-Dec-2021**	28-Dec-2021	✓	**31-Dec-2021**	06-Feb-2022	✓
Amber VOC Vial - Sulfuric Acid (EP080)							
R04_20211220	**20-Dec-2021**	**31-Dec-2021**	03-Jan-2022	✓	**31-Dec-2021**	03-Jan-2022	✓
Amber VOC Vial - Sulfuric Acid (EP080)							
R05_20211221	**21-Dec-2021**	**04-Jan-2022**	04-Jan-2022	✓	**04-Jan-2022**	04-Jan-2022	✓
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions							
Amber Glass Bottle - Unpreserved (EP071)							
R04_20211220	**20-Dec-2021**	**28-Dec-2021**	27-Dec-2021	×	**31-Dec-2021**	06-Feb-2022	✓
Amber Glass Bottle - Unpreserved (EP071)							
R05_20211221	**21-Dec-2021**	**28-Dec-2021**	28-Dec-2021	✓	**31-Dec-2021**	06-Feb-2022	✓
Amber VOC Vial - Sulfuric Acid (EP080)							
R04_20211220	**20-Dec-2021**	**31-Dec-2021**	03-Jan-2022	✓	**31-Dec-2021**	03-Jan-2022	✓
Amber VOC Vial - Sulfuric Acid (EP080)							
R05_20211221	**21-Dec-2021**	**04-Jan-2022**	04-Jan-2022	✓	**04-Jan-2022**	04-Jan-2022	✓
EP080: BTEXN							
Amber VOC Vial - Sulfuric Acid (EP080)							
R04_20211220	**20-Dec-2021**	**31-Dec-2021**	03-Jan-2022	✓	**31-Dec-2021**	03-Jan-2022	✓
Amber VOC Vial - Sulfuric Acid (EP080)							
R05_20211221	**21-Dec-2021**	**04-Jan-2022**	04-Jan-2022	✓	**04-Jan-2022**	04-Jan-2022	✓
EP231A: Perfluoroalkyl Sulfonic Acids							
HDPE (no PTFE) (EP231X)							
R04_20211220	**20-Dec-2021**	**06-Jan-2022**	18-Jun-2022	✓	**06-Jan-2022**	18-Jun-2022	✓
HDPE (no PTFE) (EP231X)							
R05_20211221	**21-Dec-2021**	**06-Jan-2022**	19-Jun-2022	✓	**06-Jan-2022**	19-Jun-2022	✓
EP231B: Perfluoroalkyl Carboxylic Acids							
HDPE (no PTFE) (EP231X)							
R04_20211220	**20-Dec-2021**	**06-Jan-2022**	18-Jun-2022	✓	**06-Jan-2022**	18-Jun-2022	✓
HDPE (no PTFE) (EP231X)							
R05_20211221	**21-Dec-2021**	**06-Jan-2022**	19-Jun-2022	✓	**06-Jan-2022**	19-Jun-2022	✓
EP231C: Perfluoroalkyl Sulfonamides							
HDPE (no PTFE) (EP231X)							
R04_20211220	**20-Dec-2021**	**06-Jan-2022**	18-Jun-2022	✓	**06-Jan-2022**	18-Jun-2022	✓
HDPE (no PTFE) (EP231X)							
R05_20211221	**21-Dec-2021**	**06-Jan-2022**	19-Jun-2022	✓	**06-Jan-2022**	19-Jun-2022	✓
EP231D: (n:2) Fluorotelomer Sulfonic Acids							
HDPE (no PTFE) (EP231X)							
R04_20211220	**20-Dec-2021**	**06-Jan-2022**	18-Jun-2022	✓	**06-Jan-2022**	18-Jun-2022	✓
HDPE (no PTFE) (EP231X)							
R05_20211221	**21-Dec-2021**	**06-Jan-2022**	19-Jun-2022	✓	**06-Jan-2022**	19-Jun-2022	✓

Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP231P: PFAS Sums							
HDPE (no PTFE) (EP231X) R04_20211220	**20-Dec-2021**	**06-Jan-2022**	18-Jun-2022	✓	**06-Jan-2022**	18-Jun-2022	✓
HDPE (no PTFE) (EP231X) R05_20211221	**21-Dec-2021**	**06-Jan-2022**	19-Jun-2022	✓	**06-Jan-2022**	19-Jun-2022	✓

Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(were) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

Matrix: **SOIL**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Laboratory Duplicates (DUP)							
Moisture Content	EA055	7	60	**11.67**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (SIM)	EP075(SIM)	8	80	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	3	24	**12.50**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	7	70	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	7	70	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	7	61	**11.48**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	7	63	**11.11**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	8	80	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	7	64	**10.94**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds	EP074	3	28	**10.71**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
PAH/Phenols (SIM)	EP075(SIM)	4	80	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	2	24	**8.33**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	4	70	**5.71**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	4	70	**5.71**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	4	61	**6.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	4	63	**6.35**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	4	80	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	4	64	**6.25**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds	EP074	2	28	**7.14**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
PAH/Phenols (SIM)	EP075(SIM)	4	80	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	2	24	**8.33**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	4	70	**5.71**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	4	70	**5.71**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	4	61	**6.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	4	63	**6.35**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	4	80	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	4	64	**6.25**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds	EP074	2	28	**7.14**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
PAH/Phenols (SIM)	EP075(SIM)	4	80	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	2	24	**8.33**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	4	70	**5.71**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	4	70	**5.71**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	4	61	**6.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard

Matrix: **SOIL**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Matrix Spikes (MS) - Continued							
Total Metals by ICP-AES	EG005T	4	63	**6.35**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	4	80	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	4	64	**6.25**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds	EP074	2	28	**7.14**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard

Matrix: **WATER**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Laboratory Duplicates (DUP)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	2	**50.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-MS - Suite A	EG020A-T	2	14	**14.29**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	0	14	**0.00**	**10.00**	×	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	3	30	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	2	**50.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-MS - Suite A	EG020A-T	1	14	**7.14**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	14	**7.14**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	2	30	**6.67**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	2	**50.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-MS - Suite A	EG020A-T	1	14	**7.14**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	14	**7.14**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	2	30	**6.67**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	2	**50.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-MS - Suite A	EG020A-T	1	14	**7.14**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	0	14	**0.00**	**5.00**	×	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	2	30	**6.67**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard

Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
Moisture Content	EA055	SOIL	In house: A gravimetric procedure based on weight loss over a 12 hour drying period at 105-110 degrees C. This method is compliant with NEPM Schedule B(3).
Asbestos Identification in Soils	EA200	SOIL	AS 4964 Method for the qualitative identification of asbestos in bulk samples Analysis by Polarised Light Microscopy including dispersion staining
Total Metals by ICP-AES	EG005T	SOIL	In house: Referenced to APHA 3120; USEPA SW 846 - 6010. Metals are determined following an appropriate acid digestion of the soil. The ICPAES technique ionises samples in a plasma, emitting a characteristic spectrum based on metals present. Intensities at selected wavelengths are compared against those of matrix matched standards. This method is compliant with NEPM Schedule B(3)
Total Mercury by FIMS	EG035T	SOIL	In house: Referenced to APHA 3112 Hg - B (Flow-injection (SnCl2) (Cold Vapour generation) AAS) FIM-AAS is an automated flameless atomic absorption technique. Mercury in solids are determined following an appropriate acid digestion. Ionic mercury is reduced online to atomic mercury vapour by SnCl2 which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM Schedule B(3)
Polychlorinated Biphenyls (PCB)	EP066	SOIL	In house: Referenced to USEPA SW 846 - 8270 Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3).
Pesticides by GCMS	EP068	SOIL	In house: Referenced to USEPA SW 846 - 8270 Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This technique is compliant with NEPM Schedule B(3).
TRH - Semivolatile Fraction	EP071	SOIL	In house: Referenced to USEPA SW 846 - 8015 Sample extracts are analysed by Capillary GC/FID and quantified against alkane standards over the range C10 - C40. Compliant with NEPM Schedule B(3).
Volatile Organic Compounds	EP074	SOIL	In house: Referenced to USEPA SW 846 - 8260 Extracts are analysed by Purge and Trap, Capillary GC/MS. Quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3).
PAH/Phenols (SIM)	EP075(SIM)	SOIL	In house: Referenced to USEPA SW 846 - 8270. Extracts are analysed by Capillary GC/MS in Selective Ion Mode (SIM) and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3)
TRH Volatiles/BTEX	EP080	SOIL	In house: Referenced to USEPA SW 846 - 8260. Extracts are analysed by Purge and Trap, Capillary GC/MS. Quantification is by comparison against an established 5 point calibration curve. Compliant with NEPM Schedule B(3) amended.
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	SOIL	In-house: Analysis of soils by solvent extraction followed by LC-Electrospray-MS-MS, Negative Mode using MRM using internal standard quantitation. Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to a portion of soil which is then extracted with MTBE and an ion pairing reagent. A portion of extract is exchanged into the analytical solvent mixture, combined with an equal volume reagent water and filtered for analysis. Method procedures and data quality objectives conform to US DoD QSM 5.3, table B-15 requirements.

Analytical Methods	Method	Matrix	Method Descriptions
Asbestos Identification in Bulk Solids	EA200	SOLID	In house: Referenced to AS 4964 Method for the qualitative identification of asbestos in bulk samples Analysis by Polarised Light Microscopy including dispersion staining
Total Metals by ICP-MS - Suite A	EG020A-T	WATER	In house: Referenced to APHA 3125; USEPA SW846 - 6020, ALS QWI-EN/EG020. The ICPMS technique utilizes a highly efficient argon plasma to ionize selected elements. Ions are then passed into a high vacuum mass spectrometer, which separates the analytes based on their distinct mass to charge ratios prior to their measurement by a discrete dynode ion detector.
Total Mercury by FIMS	EG035T	WATER	In house: Referenced to APHA 3112 Hg - B (Flow-injection (SnCl2)(Cold Vapour generation) AAS) FIM-AAS is an automated flameless atomic absorption technique. A bromate/bromide reagent is used to oxidise any organic mercury compounds in the unfiltered sample. The ionic mercury is reduced online to atomic mercury vapour by SnCl2 which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM Schedule B(3).
TRH - Semivolatile Fraction	EP071	WATER	In house: Referenced to USEPA SW 846 - 8015 The sample extract is analysed by Capillary GC/FID and quantification is by comparison against an established 5 point calibration curve of n-Alkane standards. This method is compliant with the QC requirements of NEPM Schedule B(3)
TRH Volatiles/BTEX	EP080	WATER	In house: Referenced to USEPA SW 846 - 8260 Water samples are directly purged prior to analysis by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. Alternatively, a sample is equilibrated in a headspace vial and a portion of the headspace determined by GCMS analysis. This method is compliant with the QC requirements of NEPM Schedule B(3)
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	WATER	In-house: Analysis of fresh and saline waters by Solid Phase Extraction (SPE) followed by LC-Electrospray-MS-MS, Negative Mode using MRM and internal standard quantitation. Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to the sample container. The entire contents are transferred to a solid phase extraction (SPE) cartridge. The sample container is successively rinsed with aliquots of the elution solvent. The eluted extract is combined with an equal volume of reagent water and a portion is filtered for analysis. Method procedures and data quality objectives conform to US DoD QSM 5.3, table B-15 requirements.

Preparation Methods	Method	Matrix	Method Descriptions
Hot Block Digest for metals in soils sediments and sludges	EN69	SOIL	In house: Referenced to USEPA 200.2. Hot Block Acid Digestion 1.0g of sample is heated with Nitric and Hydrochloric acids, then cooled. Peroxide is added and samples heated and cooled again before being filtered and bulked to volume for analysis. Digest is appropriate for determination of selected metals in sludge, sediments, and soils. This method is compliant with NEPM Schedule B(3).
Methanolic Extraction of Soils for Purge and Trap	ORG16	SOIL	In house: Referenced to USEPA SW 846 - 5030A. 5g of solid is shaken with surrogate and 10mL methanol prior to analysis by Purge and Trap - GC/MS.
Tumbler Extraction of Solids	ORG17	SOIL	In house: Mechanical agitation (tumbler). 10g of sample, Na2SO4 and surrogate are extracted with 30mL 1:1 DCM/Acetone by end over end tumble. The solvent is decanted, dehydrated and concentrated (by KD) to the desired volume for analysis.
QuECheRS Extraction of Solids	ORG71	SOIL	In house: Sequential extractions with Acetonitrile/Methanol by shaking. Extraction efficiency aided by the addition of salts under acidic conditions. Where relevant, interferences from co-extracted organics are removed with dispersive clean-up media (dSPE). The extract is either diluted or concentrated and exchanged into the analytical solvent.

Preparation Methods	Method	Matrix	Method Descriptions
Digestion for Total Recoverable Metals	EN25	WATER	In house: Referenced to USEPA SW846-3005. Method 3005 is a Nitric/Hydrochloric acid digestion procedure used to prepare surface and ground water samples for analysis by ICPAES or ICPMS. This method is compliant with NEPM Schedule B(3)
Separatory Funnel Extraction of Liquids	ORG14	WATER	In house: Referenced to USEPA SW 846 - 3510 100 mL to 1L of sample is transferred to a separatory funnel and serially extracted three times using DCM for each extract. The resultant extracts are combined, dehydrated and concentrated for analysis. This method is compliant with NEPM Schedule B(3) . ALS default excludes sediment which may be resident in the container.
Volatiles Water Preparation	ORG16-W	WATER	A 5 mL aliquot or 5 mL of a diluted sample is added to a 40 mL VOC vial for purging.
Solid Phase Extraction (SPE) for PFAS in water	ORG72	WATER	In-house: Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to the sample container. The entire contents are transferred to a solid phase extraction (SPE) cartridge. The sample container is successively rinsed with aliquots of the elution solvent. The eluted extract is combined with an equal volume of reagent water and a portion is filtered for analysis. Method procedures conform to US DoD QSM 5.3, table B-15 requirements.

CHAIN OF CUSTODY

ALS Laboratory: please tick →

☐ Sydney: 277 Woodpark Rd, Smithfield NSW 2164 Ph: 02 8784 8555 E:samples.sydney@alsenviro.com

☐ Newcastle: 5 Rosegum Rd, Warabrook NSW 2304 Ph:02 4968 9433 E:samples.newcastle@alsenviro.com

☐ Brisbane: 32 Shand St, Stafford QLD 4053 Ph:07 3243 7222 E:samples.brisbane@alsenviro.com

☐ Townsville: 14-15 Desma Ct, Bohle QLD 4818 Ph:07 4796 0600 E: townsville.environmental@alsenviro.com

☐ Melbourne: 2-4 Westall Rd, Springvale VIC 3171 Ph:03 8549 9600 E: samples.melbourne@alsenviro.com

☐ Adelaide: 2-1 Burma Rd, Pooraka SA 5095 Ph: 08 8359 0890 E:adelaide@alsenviro.com

CLIENT:	ERM	TURNAROUND REQUIREMENTS : (Standard TAT may be longer for some tests e.g., Ultra Trace Organics)	☐ Standard TAT (List due date): ☐ Non Standard or urgent TAT (List due date):
OFFICE:	Sydney		
PROJECT:	0577577 - Burwood	ALS QUOTE NO.:	
ORDER NUMBER:			
PROJECT MANAGER:	Jessica Lawrence	CONTACT PH: 0404935554	
SAMPLER:	Tristan Rodrigues	SAMPLER MOBILE: 0417187687	
COC emailed to ALS? YES		EDD FORMAT (or default):	
Email Reports to: jessica.lawrence@erm.com, tristan.rodrigues@erm.com			
Email Invoice to: jessica.lawrence@erm.com			

COC SEQUENCE NUMBER (Circle)

COC: 1 2 3 4 5 6 7

OF: 1 2 3 4 5 6 7

FOR LABORATORY USE ONLY: (Circle)

Custody Seal Intact? Yes No N/A

Frozen Ice bricks present upon receipt? Yes No N/A

Random Sample Temperature on Receipt: -1.3 °C

Other comment:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Tristan Rodrigues	SCOTT LO		
DATE/TIME: 22/12/21	DATE/TIME: 22/12/21 1610	DATE/TIME:	DATE/TIME:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE ONLY	SAMPLE DETAILS MATRIX: Solid(S) Water(W)			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required).								Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL BOTTLES	PFAS (28 analytes) LOR= 5ug/kg	S16	Asbestos	VOC				HOLD	Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc. Please use the lower hexavalent chromium LOR.
1	BUR_BH109_0.2	20/12/21	Soil			X	X	X	X					
2	-0.5						X							
3	-1.0						X		X				X	
4	-3.0					X	X							
5	BUR_BH111_0.2					[redacted]	X		X					
6	-0.5					X	X							
7	DO5-20211220					X	X							
—	TO5-20211220					X	X							Please Send to ALS
8	-2.0						X		X					
9	-5.0					X	X							
10	BUR_BH110_0.2					X	X		X					
11	-0.5						X							
12	-1.0						X		X					
13	-5.0					X	X							
					TOTAL									

Environmental Division Sydney

Work Order Reference

ES2146990

Telephone : +61-2-8784 8555

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide/Cd Preserved; S = Sodium Hydroxide Preserved Plastic; AG = Amber Glass Unpreserved; AP - Airfreight Unpreserved Plastic V = VOA Vial HCl Preserved; VB = VOA Vial Sodium Bisulphate Preserved; VS = VOA Vial Sulfuric Preserved; AV = Airfreight Unpreserved Vial SG = Sulfuric Preserved Amber Glass; H = HCl preserved Plastic; HS = HCl preserved Speciation bottle; SP = Sulfuric Preserved Plastic; F = For Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; ASS = Plastic Bag for Acid Sulphate Soils; B = Unpreserved Bag.

CHAIN OF CUSTODY

ALS Laboratory: please tick →

☐ Sydney: 277 Woodpark Rd, Smithfield NSW 2164 Ph: 02 8784 8555 E:samples.sydney@alsenviro.com

☐ Newcastle: 5 Rosegum Rd, Warabrook NSW 2304 Ph:02 4968 9433 E:samples.newcastle@alsenviro.com

☐ Brisbane: 32 Shand St, Stafford QLD 4053 Ph:07 3243 7222 E:samples.brisbane@alsenviro.com

☐ Townsville: 14-15 Desma Ct, Bohle QLD 4818 Ph:07 4796 0600 E: townsville.environmental@alsenviro.com

☐ Melbourne: 2-4 Westall Rd, Springvale VIC 3171 Ph:03 8549 9600 E: samples.melbourne@alsenviro.com

☐ Adelaide: 2-1 Burma Rd, Pooraka SA 5095 Ph: 08 8359 0890 E:adelaide@alsenviro.com

CLIENT:	ERM	TURNAROUND REQUIREMENTS : (Standard TAT may be longer for some tests e.g.. Ultra Trace Organics)	☐ Standard TAT (List due date): ☐ Non Standard or urgent TAT (List due date):
OFFICE:	Sydney		
PROJECT:	0577577 - Burwood	ALS QUOTE NO.:	COC SEQUENCE NUMBER (Circle) COC: 1 2 3 4 5 6 7 OF: 1 2 3 4 5 6 7
ORDER NUMBER:			
PROJECT MANAGER:	Jessica Lawrence	CONTACT PH: 0404935554	
SAMPLER:	Tristan Rodrigues	SAMPLER MOBILE: 0417187687	
COC emailed to ALS? YES		EDD FORMAT (or default):	
Email Reports to: jessica.lawrence@erm.com, tristan.rodrigues@erm.com			
Email Invoice to: jessica.lawrence@erm.com			

FOR LABORATORY USE ONLY (Circle)

Custody seal intact? Yes No N/A

Free ice / frozen ice bricks present upon receipt? Yes No N/A

Random Sample Temperature on Receipt: -1-3 °C

Other comment:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Tristan Rodrigues	Scott/Yes		
DATE/TIME: 22/12/21	DATE/TIME: 22/12/21 1410	DATE/TIME:	DATE/TIME:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE ONLY	SAMPLE DETAILS MATRIX: Solid(S) Water(W)			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required).								Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL BOTTLES	PFAS (28 analytes) LOR= 5ug/kg	S16	Asbestos	VOC	8Metals	BTEXN	TRH	HOLD	Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc. Please use the lower hexavalent chromium LOR.
14	BUR_BH113_0.2	20/12/21	Soil			X	X	X	X					
15	-1.0						X							
16	-2.0						X		X					
17	-5.0					X	X							
18	DOG_20211220						X		X					
—	TOG_20211220						X		X					Please Send to Eurofins
19	BUR_BH114_0.2					X	X	X						
20	-0.5						X		X					
21	-5.0						X							
22	-10.0						X		X					
23	-15.0					X	X							
24	ROW_20211220	20/12/21	Water			X				X	X	X		
25	ROS_20211221	21/12/21	Water			X				X	X	X		
26	TS/TB 53		Soil								X	X/N		
					TOTAL									

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CHAIN OF CUSTODY

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☐ Adelaide: 2-1 Burma Rd, Pooraka SA 5095 Ph: 08 8359 0890 E:adelaide@alsenviro.com

CLIENT:	ERM	TURNAROUND REQUIREMENTS: (Standard TAT may be longer for some tests e.g., Ultra Trace Organics)	☐ Standard TAT (List due date): ☐ Non Standard or urgent TAT (List due date):
OFFICE:	Sydney		
PROJECT:	0577577 - Burwood	ALS QUOTE NO.:	COC SEQUENCE NUMBER (Circle): COC: 1 2 3 4 5 6 7 OF: 1 2 3 4 5 6 7
ORDER NUMBER:			
PROJECT MANAGER:	Jessica Lawrence	CONTACT PH: 0404935554	
SAMPLER:	Tristan Rodrigues	SAMPLER MOBILE: 0417187687	
COC emailed to ALS? YES		EDD FORMAT (or default):	
Email Reports to: jessica.lawrence@erm.com, tristan.rodrigues@erm.com			
Email Invoice to: jessica.lawrence@erm.com			

FOR LABORATORY USE ONLY (Circle)
Custody Seal Intact? Yes No N/A
Free ice / frozen ice bricks present upon receipt? Yes No N/A
Random Sample Temperature on Receipt: -1.3 °C
Other comment:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Tristan Rodrigues	SC AJ		
DATE/TIME: 22/12/21	DATE/TIME: 22/12/21 1410	DATE/TIME:	DATE/TIME:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE ONLY	SAMPLE DETAILS MATRIX: Solid(S) Water(W)			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required).								Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL BOTTLES	PFAS (28 analytes) LOR= 5ug/kg	S16	Asbestos	VOC				HOLD	Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc. Please use the lower hexavalent chromium LOR.
27	BUR_BH115_0.2	21/12/21	Soil			X	X	X	X					
28	-0.5						X							
29	-1.0						X		X					
30	-5.0						X							
31	-10.0						X		X					
32	-15.0					X	X							
33	BUR_BH117_0.2					X	X	X	X					
34	-1.0						X							
35	-3.0					X	X							
36	DUP-20211221					X	X	X	X					
—	TUP-20211221					X	X	X	X					Please Send to Eurofins
37	BUR_BH125-0.2					X	X	X						
38	-1.0						X		X					
39	-5.0					X	X							
					TOTAL									

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V = VOA Vial HCl Preserved; VB = VOA Vial Sodium Bisulphate Preserved; VS = VOA Vial Sulfuric Preserved; AV = Airfreight Unpreserved Vial SG = Sulfuric Preserved Amber Glass; H = HCl preserved Plastic; HS = HCl preserved Speciation bottle; SP = Sulfuric Preserved Plastic; F = Formaldehyde Preserved Glass;
Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; ASS = Plastic Bag for Acid Sulphate Soils; B = Unpreserved Bag.

CHAIN OF CUSTODY

ALS Laboratory: please tick →

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CLIENT:	ERM	TURNAROUND REQUIREMENTS : (Standard TAT may be longer for some tests e.g. Ultra Trace Organics)	☐ Standard TAT (List due date): ☐ Non Standard or urgent TAT (List due date):
OFFICE:	Sydney		
PROJECT:	0577577 - Burwood	ALS QUOTE NO.:	COC SEQUENCE NUMBER (Circle) COC: 1 2 3 4 5 6 7 OF: 1 2 3 4 5 6 7
ORDER NUMBER:			
PROJECT MANAGER:	Jessica Lawrence	CONTACT PH: 0404935554	
SAMPLER:	Tristan Rodrigues	SAMPLER MOBILE: 0417187687	
COC emailed to ALS? YES		EDD FORMAT (or default):	
Email Reports to: jessica.lawrence@erm.com, tristan.rodrigues@erm.com			
Email Invoice to: jessica.lawrence@erm.com			

FOR LABORATORY USE ONLY (Circle)
Custody Seal Intact? Yes No N/A
Free ice / frozen ice bricks present upon receipt? Yes No N/A
Random Sample Temperature on Receipt: °C
Other comment: ~1.3

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Tristan Rodrigues	SCOTT HILLS ALS		
DATE/TIME: 22/12/21	DATE/TIME: 22/12/21 1410	DATE/TIME:	DATE/TIME:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE ONLY	SAMPLE DETAILS MATRIX: Solid(S) Water(W)			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required).								Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL BOTTLES	PFAS (28 analytes) LOR= 5ug/kg	S16	Asbestos	VOC				HOLD	Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc. Please use the lower hexavalent chromium LOR.
40	BUR_BH101_0.1	21/12/21	Soil			X	X	X	X					
41	-0.5													
42	-2.0								X					
43	BUR_BH112_0.2					X	X	X						
44	-0.5						X		X					
45	-2.0													
46	-5.0					X	X		X					
47	BUR_BH116_0.2					X	X							
48	DUP_20211221					X	X							
—	TOT_20211221					X	X							Please Send to Eurofins
49	BUR_BH116_0.5						X		X					
50	-3.0					X	X							
51	BUR_BH116_0.2_ACM		Frag					X						
52	BUR_BH115_0.2		Soil			X	X	X	X					
					TOTAL									

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V = VOA Vial HCl Preserved; VB = VOA Vial Sodium Bisulphate Preserved; VS = VOA Vial Sulfuric Preserved; AV = Airfreight Unpreserved Vial SG = Sulfuric Preserved Amber Glass; H = HCl preserved Plastic; HS = HCl preserved Speciation bottle; SP = Sulfuric Preserved Plastic; F = Formaldehyde Preserved Glass;
Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; ASS = Plastic Bag for Acid Sulphate Soils; B = Unpreserved Bag.

Thank Khaleda,

Happy New Year and apologies for the late reply on this.

- Could Sample 38 be labelled as BH125 – 0.5
- Noted for sample 115-0.2
- Sorry no asbestos analysis required on sample 36

Could you please reissue the result with the updated labelling

Kind Regards

Tristan Rodrigues
Environmental Consultant

ERM
Unit 11, 277 Lane Cove Road | Macquarie Park | NSW | 2113
T +61 2 8586 8750 **M** +61417187687
E Tristan.Rodrigues@erm.com | **W** www.erm.com

ERM *The business of sustainability*

Environmental Division
Sydney
Work Order Reference
ES2146990

Telephone : +61-2-8784 8555

From: Khaleda Ataei <khaleda.ataei@ALSGlobal.com>
Sent: Friday, December 24, 2021 2:16 PM
To: Tristan Rodrigues <Tristan.Rodrigues@erm.com>
Subject: ALS Workorder ES2146990, Client ENVRES, Project 0577577 - Burwood

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Hi Tristan,

I hope you are doing well.

I just wanted to let you know that for the attached COC, we have received 2 sets of TB and TS samples. We have scheduled one for analysis as per the COC and kept the other one on hold.

- Sample 38 - BH125 -1.0 was received as BH125 – 0.5
- Sample BH115 – 0.2 has been listed twice on the COC as #27 and 52, we have logged this as #27
- No Asbestos bag was received for sample 36 therefore Asbestos was not logged.
- One Asbestos bag was received without any sample ID – has been kept on hold.

Thank you

Kind regards,

Khaleda Ataei

Client Services Officer, Environmental
Sydney

D +61 2 8784 8603

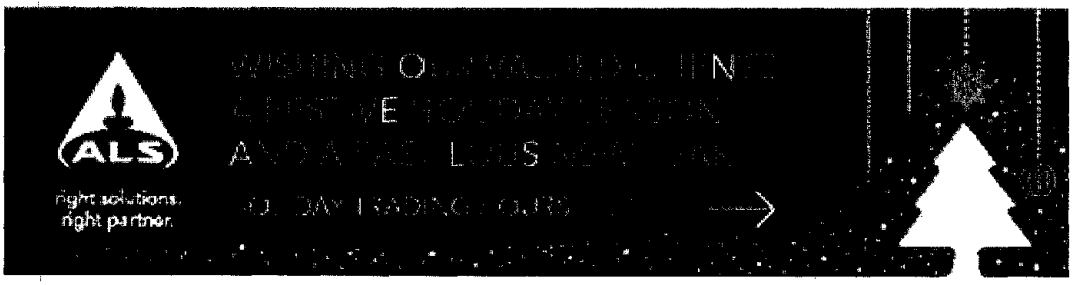
F +61 2 8784 8500

Khaleda.ataei@alsglobal.com

277-289 Woodpark Road
Smithfield NSW 2164 AUSTRALIA

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CERTIFICATE OF ANALYSIS

Work Order	: **ES2201979**	Page	: 1 of 18
Client	: **ENVIRONMENTAL RESOURCES MANAGEMENT (ERM)**	Laboratory	: Environmental Division Sydney
Contact	: NICHOLAS GRBICH	Contact	: Customer Services ES
Address	: LEVEL 15 309 KENT STREET SYDNEY NSW AUSTRALIA 2000	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: ----	Telephone	: +61-2-8784 8555
Project	: 0628507	Date Samples Received	: 20-Jan-2022 19:00
Order number	: ----	Date Analysis Commenced	: 22-Jan-2022
C-O-C number	: ----	Issue Date	: 31-Jan-2022 18:28
Sampler	: TAJ MONDON		
Site	: ----		
Quote number	: EN/114		
No. of samples received	: 16		
No. of samples analysed	: 14		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Ankit Joshi	Inorganic Chemist	Sydney Inorganics, Smithfield, NSW
Edwandy Fadjar	Organic Coordinator	Sydney Organics, Smithfield, NSW
Ivan Taylor	Analyst	Sydney Inorganics, Smithfield, NSW

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- EK059G: LOR raised for NOx due to sample matrix.
- EP075 (SIM): Where reported, Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) per the NEPM (2013) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a.h)anthracene (1.0), Benzo(g.h.i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero.
- EP080: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EP074: Where reported, Total Trihalomethanes is the sum of the reported concentrations of all Trihalomethanes at or above the LOR.
- EP074: Where reported, Total Trimethylbenzenes is the sum of the reported concentrations of 1.2.3-Trimethylbenzene, 1.2.4-Trimethylbenzene and 1.3.5-Trimethylbenzene at or above the LOR.
- EP075(SIM): Where reported, Total Cresol is the sum of the reported concentrations of 2-Methylphenol and 3- & 4-Methylphenol at or above the LOR.
- EK057G: LOR raised for Nitrite on a few samples due to sample matrix.
- EP080&74: ES2201979-08 has been confrimed by re-analysis.
- TDS by method EA-015 may bias high for various samples due to the presence of fine particulate matter, which may pass through the prescribed GF/C paper.
- Sodium Adsorption Ratio (where reported): Where results for Na, Ca or Mg are <LOR, a concentration at half the reported LOR is incorporated into the SAR calculation. This represents a conservative approach for Na relative to the assumption that <LOR = zero concentration and a conservative approach for Ca & Mg relative to the assumption that <LOR is equivalent to the LOR concentration.

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	S51	S54	S02_d	S06	S40_s
			Sampling date / time	20-Jan-2022 00:00	20-Jan-2022 00:00	20-Jan-2022 00:00	20-Jan-2022 00:00	20-Jan-2022 00:00
Compound	CAS Number	LOR	Unit	ES2201979-001	ES2201979-002	ES2201979-003	ES2201979-004	ES2201979-005
				Result	Result	Result	Result	Result
EA015: Total Dissolved Solids dried at 180 ± 5 °C								
Total Dissolved Solids @180°C	----	10	mg/L	831	8360	2550	1280	446
ED037P: Alkalinity by PC Titrator								
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1	<1	<1	<1	<1
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	<1	<1	<1	<1	<1
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	700	59	270	418	205
Total Alkalinity as CaCO3	----	1	mg/L	700	59	270	418	205
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA								
Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	6	334	126	102	64
ED045G: Chloride by Discrete Analyser								
Chloride	16887-00-6	1	mg/L	44	4650	767	457	48
ED093F: Dissolved Major Cations								
Calcium	7440-70-2	1	mg/L	150	105	15	26	77
Magnesium	7439-95-4	1	mg/L	49	279	24	30	9
Sodium	7440-23-5	1	mg/L	67	2060	554	376	35
Potassium	7440-09-7	1	mg/L	23	90	28	33	12
EG020F: Dissolved Metals by ICP-MS								
Arsenic	7440-38-2	0.001	mg/L	0.065	0.002	0.001	0.002	<0.001
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	0.0003
Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Copper	7440-50-8	0.001	mg/L	<0.001	0.006	0.002	0.002	0.011
Lead	7439-92-1	0.001	mg/L	<0.001	0.002	<0.001	<0.001	<0.001
Nickel	7440-02-0	0.001	mg/L	<0.001	0.002	0.002	0.002	0.007
Zinc	7440-66-6	0.005	mg/L	<0.005	0.006	<0.005	<0.005	0.287
Iron	7439-89-6	0.05	mg/L	19.1	51.5	0.44	13.4	0.32
EG035F: Dissolved Mercury by FIMS								
Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
EK055G: Ammonia as N by Discrete Analyser								
Ammonia as N	7664-41-7	0.01	mg/L	4.75	0.64	0.29	0.57	0.04
EK057G: Nitrite as N by Discrete Analyser								
Nitrite as N	14797-65-0	0.01	mg/L	<0.10	<0.10	<0.01	<0.01	0.03
EK058G: Nitrate as N by Discrete Analyser								
Nitrate as N	14797-55-8	0.01	mg/L	<0.10	<0.10	0.04	0.02	0.46
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser								

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	S51	S54	S02_d	S06	S40_s
			Sampling date / time	20-Jan-2022 00:00	20-Jan-2022 00:00	20-Jan-2022 00:00	20-Jan-2022 00:00	20-Jan-2022 00:00
Compound	CAS Number	LOR	Unit	ES2201979-001	ES2201979-002	ES2201979-003	ES2201979-004	ES2201979-005
				Result	Result	Result	Result	Result
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser - Continued								
Nitrite + Nitrate as N	----	0.01	mg/L	<0.10	<0.10	0.04	0.02	0.49
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser								
Total Kjeldahl Nitrogen as N	----	0.1	mg/L	6.8	3.9	4.6	1.0	0.3
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser								
^ Total Nitrogen as N	----	0.1	mg/L	6.8	3.9	4.6	1.0	0.8
EK067G: Total Phosphorus as P by Discrete Analyser								
Total Phosphorus as P	----	0.01	mg/L	0.68	1.15	1.45	0.03	0.66
EN055: Ionic Balance								
ø Total Anions	----	0.01	meq/L	15.4	139	29.6	23.4	6.78
ø Total Cations	----	0.01	meq/L	15.0	120	27.5	21.0	6.41
ø Ionic Balance	----	0.01	%	1.09	7.40	3.70	5.42	2.80
EP074A: Monocyclic Aromatic Hydrocarbons								
Styrene	100-42-5	5	µg/L	<5	<5	<5	<5	<5
Isopropylbenzene	98-82-8	5	µg/L	<5	<5	<5	<5	<5
n-Propylbenzene	103-65-1	5	µg/L	<5	<5	<5	<5	<5
1.3.5-Trimethylbenzene	108-67-8	5	µg/L	<5	<5	<5	<5	<5
sec-Butylbenzene	135-98-8	5	µg/L	<5	<5	<5	<5	<5
1.2.4-Trimethylbenzene	95-63-6	5	µg/L	<5	<5	<5	<5	<5
tert-Butylbenzene	98-06-6	5	µg/L	<5	<5	<5	<5	<5
p-Isopropyltoluene	99-87-6	5	µg/L	<5	<5	<5	<5	<5
n-Butylbenzene	104-51-8	5	µg/L	<5	<5	<5	<5	<5
EP074B: Oxygenated Compounds								
Vinyl Acetate	108-05-4	50	µg/L	<50	<50	<50	<50	<50
2-Butanone (MEK)	78-93-3	50	µg/L	<50	<50	<50	<50	<50
4-Methyl-2-pentanone (MIBK)	108-10-1	50	µg/L	<50	<50	<50	<50	<50
2-Hexanone (MBK)	591-78-6	50	µg/L	<50	<50	<50	<50	<50
EP074C: Sulfonated Compounds								
Carbon disulfide	75-15-0	5	µg/L	<5	<5	<5	<5	<5
EP074D: Fumigants								
2.2-Dichloropropane	594-20-7	5	µg/L	<5	<5	<5	<5	<5
1.2-Dichloropropane	78-87-5	5	µg/L	<5	<5	<5	<5	<5
cis-1.3-Dichloropropylene	10061-01-5	5	µg/L	<5	<5	<5	<5	<5
trans-1.3-Dichloropropylene	10061-02-6	5	µg/L	<5	<5	<5	<5	<5
1.2-Dibromoethane (EDB)	106-93-4	5	µg/L	<5	<5	<5	<5	<5

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	S51	S54	S02_d	S06	S40_s
			Sampling date / time	20-Jan-2022 00:00	20-Jan-2022 00:00	20-Jan-2022 00:00	20-Jan-2022 00:00	20-Jan-2022 00:00
Compound	CAS Number	LOR	Unit	ES2201979-001	ES2201979-002	ES2201979-003	ES2201979-004	ES2201979-005
				Result	Result	Result	Result	Result
EP074E: Halogenated Aliphatic Compounds								
Dichlorodifluoromethane	75-71-8	50	µg/L	<50	<50	<50	<50	<50
Chloromethane	74-87-3	50	µg/L	<50	<50	<50	<50	<50
Vinyl chloride	75-01-4	50	µg/L	<50	<50	<50	<50	<50
Bromomethane	74-83-9	50	µg/L	<50	<50	<50	<50	<50
Chloroethane	75-00-3	50	µg/L	<50	<50	<50	<50	<50
Trichlorofluoromethane	75-69-4	50	µg/L	<50	<50	<50	<50	<50
1.1-Dichloroethene	75-35-4	5	µg/L	<5	<5	<5	<5	<5
Iodomethane	74-88-4	5	µg/L	<5	<5	<5	<5	<5
trans-1.2-Dichloroethene	156-60-5	5	µg/L	<5	<5	<5	<5	<5
1.1-Dichloroethane	75-34-3	5	µg/L	<5	<5	<5	<5	<5
cis-1.2-Dichloroethene	156-59-2	5	µg/L	<5	<5	<5	<5	<5
1.1.1-Trichloroethane	71-55-6	5	µg/L	<5	<5	<5	<5	<5
1.1-Dichloropropylene	563-58-6	5	µg/L	<5	<5	<5	<5	<5
Carbon Tetrachloride	56-23-5	5	µg/L	<5	<5	<5	<5	<5
1.2-Dichloroethane	107-06-2	5	µg/L	<5	<5	<5	<5	<5
Trichloroethene	79-01-6	5	µg/L	<5	<5	<5	<5	<5
Dibromomethane	74-95-3	5	µg/L	<5	<5	<5	<5	<5
1.1.2-Trichloroethane	79-00-5	5	µg/L	<5	<5	<5	<5	<5
1.3-Dichloropropane	142-28-9	5	µg/L	<5	<5	<5	<5	<5
Tetrachloroethene	127-18-4	5	µg/L	<5	<5	<5	<5	<5
1.1.1.2-Tetrachloroethane	630-20-6	5	µg/L	<5	<5	<5	<5	<5
trans-1.4-Dichloro-2-butene	110-57-6	5	µg/L	<5	<5	<5	<5	<5
cis-1.4-Dichloro-2-butene	1476-11-5	5	µg/L	<5	<5	<5	<5	<5
1.1.2.2-Tetrachloroethane	79-34-5	5	µg/L	<5	<5	<5	<5	<5
1.2.3-Trichloropropane	96-18-4	5	µg/L	<5	<5	<5	<5	<5
Pentachloroethane	76-01-7	5	µg/L	<5	<5	<5	<5	<5
1.2-Dibromo-3-chloropropane	96-12-8	5	µg/L	<5	<5	<5	<5	<5
Hexachlorobutadiene	87-68-3	5	µg/L	<5	<5	<5	<5	<5
EP074F: Halogenated Aromatic Compounds								
Chlorobenzene	108-90-7	5	µg/L	<5	<5	<5	<5	<5
Bromobenzene	108-86-1	5	µg/L	<5	<5	<5	<5	<5
2-Chlorotoluene	95-49-8	5	µg/L	<5	<5	<5	<5	<5
4-Chlorotoluene	106-43-4	5	µg/L	<5	<5	<5	<5	<5
1.3-Dichlorobenzene	541-73-1	5	µg/L	<5	<5	<5	<5	<5
1.4-Dichlorobenzene	106-46-7	5	µg/L	<5	<5	<5	<5	<5

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	S51	S54	S02_d	S06	S40_s
			Sampling date / time	20-Jan-2022 00:00	20-Jan-2022 00:00	20-Jan-2022 00:00	20-Jan-2022 00:00	20-Jan-2022 00:00
Compound	CAS Number	LOR	Unit	ES2201979-001	ES2201979-002	ES2201979-003	ES2201979-004	ES2201979-005
				Result	Result	Result	Result	Result
EP074F: Halogenated Aromatic Compounds - Continued								
1.2-Dichlorobenzene	95-50-1	5	µg/L	<5	<5	<5	<5	<5
1.2.4-Trichlorobenzene	120-82-1	5	µg/L	<5	<5	<5	<5	<5
1.2.3-Trichlorobenzene	87-61-6	5	µg/L	<5	<5	<5	<5	<5
EP074G: Trihalomethanes								
Chloroform	67-66-3	5	µg/L	<5	<5	<5	<5	<5
Bromodichloromethane	75-27-4	5	µg/L	<5	<5	<5	<5	<5
Dibromochloromethane	124-48-1	5	µg/L	<5	<5	<5	<5	<5
Bromoform	75-25-2	5	µg/L	<5	<5	<5	<5	<5
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	1.0	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Acenaphthylene	208-96-8	1.0	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Acenaphthene	83-32-9	1.0	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Fluorene	86-73-7	1.0	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Phenanthrene	85-01-8	1.0	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Anthracene	120-12-7	1.0	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Fluoranthene	206-44-0	1.0	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Pyrene	129-00-0	1.0	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Benz(a)anthracene	56-55-3	1.0	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Chrysene	218-01-9	1.0	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(b+j)fluoranthene	205-99-2 205-82-3	1.0	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(k)fluoranthene	207-08-9	1.0	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(a)pyrene	50-32-8	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	1.0	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Dibenz(a.h)anthracene	53-70-3	1.0	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(g.h.i)perylene	191-24-2	1.0	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	20	µg/L	<20	<20	<20	<20	<20
C10 - C14 Fraction	----	50	µg/L	<50	<50	<50	<50	<50
C15 - C28 Fraction	----	100	µg/L	<100	<100	<100	<100	<100
C29 - C36 Fraction	----	50	µg/L	<50	<50	<50	<50	<50
^ C10 - C36 Fraction (sum)	----	50	µg/L	<50	<50	<50	<50	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	S51	S54	S02_d	S06	S40_s
			Sampling date / time	20-Jan-2022 00:00	20-Jan-2022 00:00	20-Jan-2022 00:00	20-Jan-2022 00:00	20-Jan-2022 00:00
Compound	CAS Number	LOR	Unit	ES2201979-001	ES2201979-002	ES2201979-003	ES2201979-004	ES2201979-005
				Result	Result	Result	Result	Result
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued								
C6 - C10 Fraction	C6_C10	20	µg/L	<20	<20	<20	<20	<20
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	µg/L	<20	<20	<20	<20	<20
>C10 - C16 Fraction	----	100	µg/L	<100	<100	<100	<100	<100
>C16 - C34 Fraction	----	100	µg/L	<100	<100	<100	<100	<100
>C34 - C40 Fraction	----	100	µg/L	<100	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	100	µg/L	<100	<100	<100	<100	<100
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	100	µg/L	<100	<100	<100	<100	<100
EP080: BTEXN								
Benzene	71-43-2	1	µg/L	<1	<1	<1	<1	<1
Toluene	108-88-3	2	µg/L	<2	<2	<2	<2	<2
Ethylbenzene	100-41-4	2	µg/L	<2	<2	<2	<2	<2
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	<2	<2	<2	<2
ortho-Xylene	95-47-6	2	µg/L	<2	<2	<2	<2	<2
^ Total Xylenes	----	2	µg/L	<2	<2	<2	<2	<2
^ Sum of BTEX	----	1	µg/L	<1	<1	<1	<1	<1
Naphthalene	91-20-3	5	µg/L	<5	<5	<5	<5	<5
EP074S: VOC Surrogates								
1.2-Dichloroethane-D4	17060-07-0	5	%	**96.0**	**98.2**	**101**	**99.9**	**99.6**
Toluene-D8	2037-26-5	5	%	**114**	**106**	**108**	**111**	**110**
4-Bromofluorobenzene	460-00-4	5	%	**104**	**98.7**	**102**	**94.4**	**89.6**
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	1.0	%	**20.9**	**23.4**	**25.1**	**25.1**	**22.9**
2-Chlorophenol-D4	93951-73-6	1.0	%	**57.6**	**60.1**	**62.2**	**61.3**	**61.1**
2.4.6-Tribromophenol	118-79-6	1.0	%	**68.5**	**68.9**	**79.5**	**90.0**	**65.6**
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	1.0	%	**72.4**	**79.8**	**75.2**	**78.4**	**77.0**
Anthracene-d10	1719-06-8	1.0	%	**92.5**	**98.3**	**93.2**	**90.4**	**96.6**
4-Terphenyl-d14	1718-51-0	1.0	%	**82.6**	**89.1**	**95.8**	**91.7**	**86.5**
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	2	%	**102**	**108**	**108**	**112**	**111**
Toluene-D8	2037-26-5	2	%	**114**	**115**	**107**	**115**	**115**
4-Bromofluorobenzene	460-00-4	2	%	**107**	**108**	**103**	**109**	**107**

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	S40_d	SMW_BH120	SMW_BH019	D01_220119	RO1-220119
				Sampling date / time	19-Jan-2022 00:00	19-Jan-2022 00:00	19-Jan-2022 00:00	19-Jan-2022 00:00	19-Jan-2022 00:00
Compound	CAS Number	LOR	Unit		ES2201979-006	ES2201979-007	ES2201979-008	ES2201979-009	ES2201979-011
					Result	Result	Result	Result	Result
EA015: Total Dissolved Solids dried at 180 ± 5 °C									
Total Dissolved Solids @180°C	----	10	mg/L		**15000**	**12300**	**11800**	**11700**	----
ED037P: Alkalinity by PC Titrator									
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L		<1	<1	<1	<1	----
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L		<1	<1	<1	<1	----
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L		**70**	**673**	**856**	**855**	----
Total Alkalinity as CaCO3	----	1	mg/L		**70**	**673**	**856**	**855**	----
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA									
Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L		**680**	**501**	**2**	**1**	----
ED045G: Chloride by Discrete Analyser									
Chloride	16887-00-6	1	mg/L		**8110**	**6750**	**6580**	**6510**	----
ED093F: Dissolved Major Cations									
Calcium	7440-70-2	1	mg/L		**325**	**247**	**411**	**416**	----
Magnesium	7439-95-4	1	mg/L		**459**	**474**	**358**	**365**	----
Sodium	7440-23-5	1	mg/L		**3640**	**3360**	**2650**	**2700**	----
Potassium	7440-09-7	1	mg/L		**77**	**51**	**43**	**43**	----
EG020F: Dissolved Metals by ICP-MS									
Arsenic	7440-38-2	0.001	mg/L		**0.001**	<0.001	<0.001	<0.001	<0.001
Cadmium	7440-43-9	0.0001	mg/L		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Chromium	7440-47-3	0.001	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001
Copper	7440-50-8	0.001	mg/L		**0.005**	<0.001	**0.002**	**0.002**	<0.001
Lead	7439-92-1	0.001	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001
Nickel	7440-02-0	0.001	mg/L		**0.080**	<0.001	**0.001**	**0.002**	<0.001
Zinc	7440-66-6	0.005	mg/L		<0.005	<0.005	**0.014**	**0.013**	<0.005
Iron	7439-89-6	0.05	mg/L		**330**	**1.99**	**5.77**	**5.78**	<0.05
EG035F: Dissolved Mercury by FIMS									
Mercury	7439-97-6	0.0001	mg/L		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
EK055G: Ammonia as N by Discrete Analyser									
Ammonia as N	7664-41-7	0.01	mg/L		**1.07**	**1.66**	**4.76**	**4.61**	**0.02**
EK057G: Nitrite as N by Discrete Analyser									
Nitrite as N	14797-65-0	0.01	mg/L		<0.10	<0.01	<0.01	<0.01	----
EK058G: Nitrate as N by Discrete Analyser									
Nitrate as N	14797-55-8	0.01	mg/L		<0.10	**0.02**	**0.02**	**0.02**	----
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser									

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	S40_d	SMW_BH120	SMW_BH019	D01_220119	RO1-220119
			Sampling date / time	19-Jan-2022 00:00	19-Jan-2022 00:00	19-Jan-2022 00:00	19-Jan-2022 00:00	19-Jan-2022 00:00
Compound	CAS Number	LOR	Unit	ES2201979-006	ES2201979-007	ES2201979-008	ES2201979-009	ES2201979-011
				Result	Result	Result	Result	Result
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser - Continued								
Nitrite + Nitrate as N	----	0.01	mg/L	<0.10	0.02	0.02	0.02	<0.01
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser								
Total Kjeldahl Nitrogen as N	----	0.1	mg/L	2.2	2.3	6.4	6.3	<0.1
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser								
^ Total Nitrogen as N	----	0.1	mg/L	2.2	2.3	6.4	6.3	<0.1
EK067G: Total Phosphorus as P by Discrete Analyser								
Total Phosphorus as P	----	0.01	mg/L	0.27	0.15	0.27	0.27	<0.01
EN055: Ionic Balance								
ø Total Anions	----	0.01	meq/L	244	214	203	201	----
ø Total Cations	----	0.01	meq/L	214	199	166	169	----
ø Ionic Balance	----	0.01	%	6.55	3.75	9.87	8.48	----
EP074A: Monocyclic Aromatic Hydrocarbons								
Styrene	100-42-5	5	µg/L	<5	<5	<5	<5	<5
Isopropylbenzene	98-82-8	5	µg/L	<5	<5	<5	<5	<5
n-Propylbenzene	103-65-1	5	µg/L	<5	<5	<5	<5	<5
1.3.5-Trimethylbenzene	108-67-8	5	µg/L	<5	<5	<5	<5	<5
sec-Butylbenzene	135-98-8	5	µg/L	<5	<5	<5	<5	<5
1.2.4-Trimethylbenzene	95-63-6	5	µg/L	<5	<5	<5	<5	<5
tert-Butylbenzene	98-06-6	5	µg/L	<5	<5	<5	<5	<5
p-Isopropyltoluene	99-87-6	5	µg/L	<5	<5	<5	<5	<5
n-Butylbenzene	104-51-8	5	µg/L	<5	<5	<5	<5	<5
EP074B: Oxygenated Compounds								
Vinyl Acetate	108-05-4	50	µg/L	<50	<50	<50	<50	<50
2-Butanone (MEK)	78-93-3	50	µg/L	<50	<50	<50	<50	<50
4-Methyl-2-pentanone (MIBK)	108-10-1	50	µg/L	<50	<50	<50	<50	<50
2-Hexanone (MBK)	591-78-6	50	µg/L	<50	<50	<50	<50	<50
EP074C: Sulfonated Compounds								
Carbon disulfide	75-15-0	5	µg/L	<5	<5	<5	<5	<5
EP074D: Fumigants								
2.2-Dichloropropane	594-20-7	5	µg/L	<5	<5	<5	<5	<5
1.2-Dichloropropane	78-87-5	5	µg/L	<5	<5	<5	<5	<5
cis-1.3-Dichloropropylene	10061-01-5	5	µg/L	<5	<5	<5	<5	<5
trans-1.3-Dichloropropylene	10061-02-6	5	µg/L	<5	<5	<5	<5	<5
1.2-Dibromoethane (EDB)	106-93-4	5	µg/L	<5	<5	<5	<5	<5

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	S40_d	SMW_BH120	SMW_BH019	D01_220119	RO1-220119
			Sampling date / time	19-Jan-2022 00:00	19-Jan-2022 00:00	19-Jan-2022 00:00	19-Jan-2022 00:00	19-Jan-2022 00:00
Compound	CAS Number	LOR	Unit	ES2201979-006	ES2201979-007	ES2201979-008	ES2201979-009	ES2201979-011
				Result	Result	Result	Result	Result
EP074E: Halogenated Aliphatic Compounds								
Dichlorodifluoromethane	75-71-8	50	µg/L	<50	<50	<50	<50	<50
Chloromethane	74-87-3	50	µg/L	<50	<50	<50	<50	<50
Vinyl chloride	75-01-4	50	µg/L	<50	<50	<50	<50	<50
Bromomethane	74-83-9	50	µg/L	<50	<50	<50	<50	<50
Chloroethane	75-00-3	50	µg/L	<50	<50	<50	<50	<50
Trichlorofluoromethane	75-69-4	50	µg/L	<50	<50	<50	<50	<50
1.1-Dichloroethene	75-35-4	5	µg/L	<5	<5	<5	<5	<5
Iodomethane	74-88-4	5	µg/L	<5	<5	<5	<5	<5
trans-1.2-Dichloroethene	156-60-5	5	µg/L	<5	<5	<5	<5	<5
1.1-Dichloroethane	75-34-3	5	µg/L	<5	<5	<5	<5	<5
cis-1.2-Dichloroethene	156-59-2	5	µg/L	<5	<5	<5	<5	<5
1.1.1-Trichloroethane	71-55-6	5	µg/L	<5	<5	<5	<5	<5
1.1-Dichloropropylene	563-58-6	5	µg/L	<5	<5	<5	<5	<5
Carbon Tetrachloride	56-23-5	5	µg/L	<5	<5	<5	<5	<5
1.2-Dichloroethane	107-06-2	5	µg/L	<5	<5	<5	<5	<5
Trichloroethene	79-01-6	5	µg/L	<5	<5	<5	<5	<5
Dibromomethane	74-95-3	5	µg/L	<5	<5	<5	<5	<5
1.1.2-Trichloroethane	79-00-5	5	µg/L	<5	<5	<5	<5	<5
1.3-Dichloropropane	142-28-9	5	µg/L	<5	<5	<5	<5	<5
Tetrachloroethene	127-18-4	5	µg/L	<5	<5	<5	<5	<5
1.1.1.2-Tetrachloroethane	630-20-6	5	µg/L	<5	<5	<5	<5	<5
trans-1.4-Dichloro-2-butene	110-57-6	5	µg/L	<5	<5	<5	<5	<5
cis-1.4-Dichloro-2-butene	1476-11-5	5	µg/L	<5	<5	<5	<5	<5
1.1.2.2-Tetrachloroethane	79-34-5	5	µg/L	<5	<5	<5	<5	<5
1.2.3-Trichloropropane	96-18-4	5	µg/L	<5	<5	<5	<5	<5
Pentachloroethane	76-01-7	5	µg/L	<5	<5	<5	<5	<5
1.2-Dibromo-3-chloropropane	96-12-8	5	µg/L	<5	<5	<5	<5	<5
Hexachlorobutadiene	87-68-3	5	µg/L	<5	<5	<5	<5	<5
EP074F: Halogenated Aromatic Compounds								
Chlorobenzene	108-90-7	5	µg/L	<5	<5	<5	<5	<5
Bromobenzene	108-86-1	5	µg/L	<5	<5	<5	<5	<5
2-Chlorotoluene	95-49-8	5	µg/L	<5	<5	<5	<5	<5
4-Chlorotoluene	106-43-4	5	µg/L	<5	<5	<5	<5	<5
1.3-Dichlorobenzene	541-73-1	5	µg/L	<5	<5	<5	<5	<5
1.4-Dichlorobenzene	106-46-7	5	µg/L	<5	<5	<5	<5	<5

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	S40_d	SMW_BH120	SMW_BH019	D01_220119	RO1-220119
			Sampling date / time	19-Jan-2022 00:00	19-Jan-2022 00:00	19-Jan-2022 00:00	19-Jan-2022 00:00	19-Jan-2022 00:00
Compound	CAS Number	LOR	Unit	ES2201979-006	ES2201979-007	ES2201979-008	ES2201979-009	ES2201979-011
				Result	Result	Result	Result	Result
EP074F: Halogenated Aromatic Compounds - Continued								
1.2-Dichlorobenzene	95-50-1	5	µg/L	<5	<5	<5	<5	<5
1.2.4-Trichlorobenzene	120-82-1	5	µg/L	<5	<5	<5	<5	<5
1.2.3-Trichlorobenzene	87-61-6	5	µg/L	<5	<5	<5	<5	<5
EP074G: Trihalomethanes								
Chloroform	67-66-3	5	µg/L	<5	<5	<5	<5	<5
Bromodichloromethane	75-27-4	5	µg/L	<5	<5	<5	<5	<5
Dibromochloromethane	124-48-1	5	µg/L	<5	<5	<5	<5	<5
Bromoform	75-25-2	5	µg/L	<5	<5	<5	<5	<5
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	1.0	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Acenaphthylene	208-96-8	1.0	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Acenaphthene	83-32-9	1.0	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Fluorene	86-73-7	1.0	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Phenanthrene	85-01-8	1.0	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Anthracene	120-12-7	1.0	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Fluoranthene	206-44-0	1.0	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Pyrene	129-00-0	1.0	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Benz(a)anthracene	56-55-3	1.0	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Chrysene	218-01-9	1.0	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(b+j)fluoranthene	205-99-2 205-82-3	1.0	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(k)fluoranthene	207-08-9	1.0	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(a)pyrene	50-32-8	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	1.0	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Dibenz(a.h)anthracene	53-70-3	1.0	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(g.h.i)perylene	191-24-2	1.0	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	20	µg/L	<20	<20	<20	<20	<20
C10 - C14 Fraction	----	50	µg/L	<50	<50	<50	<50	<50
C15 - C28 Fraction	----	100	µg/L	<100	<100	<100	<100	<100
C29 - C36 Fraction	----	50	µg/L	<50	<50	<50	<50	<50
^ C10 - C36 Fraction (sum)	----	50	µg/L	<50	<50	<50	<50	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	S40_d	SMW_BH120	SMW_BH019	D01_220119	RO1-220119
				Sampling date / time	19-Jan-2022 00:00	19-Jan-2022 00:00	19-Jan-2022 00:00	19-Jan-2022 00:00	19-Jan-2022 00:00
Compound	CAS Number	LOR	Unit		ES2201979-006	ES2201979-007	ES2201979-008	ES2201979-009	ES2201979-011
					Result	Result	Result	Result	Result
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued									
C6 - C10 Fraction	C6_C10	20	µg/L		<20	<20	<20	<20	<20
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	µg/L		<20	<20	<20	<20	<20
>C10 - C16 Fraction	----	100	µg/L		<100	<100	<100	<100	<100
>C16 - C34 Fraction	----	100	µg/L		<100	<100	<100	<100	<100
>C34 - C40 Fraction	----	100	µg/L		<100	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	100	µg/L		<100	<100	<100	<100	<100
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	100	µg/L		<100	<100	<100	<100	<100
EP080: BTEXN									
Benzene	71-43-2	1	µg/L		<1	<1	1	1	<1
Toluene	108-88-3	2	µg/L		<2	<2	<2	<2	<2
Ethylbenzene	100-41-4	2	µg/L		<2	<2	<2	<2	<2
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L		<2	<2	<2	<2	<2
ortho-Xylene	95-47-6	2	µg/L		<2	<2	<2	<2	<2
^ Total Xylenes	----	2	µg/L		<2	<2	<2	<2	<2
^ Sum of BTEX	----	1	µg/L		<1	<1	1	1	<1
Naphthalene	91-20-3	5	µg/L		<5	<5	<5	<5	<5
EP074S: VOC Surrogates									
1.2-Dichloroethane-D4	17060-07-0	5	%		102	101	88.2	101	99.4
Toluene-D8	2037-26-5	5	%		112	112	95.3	110	105
4-Bromofluorobenzene	460-00-4	5	%		93.5	94.0	80.0	93.1	87.1
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	1.0	%		18.5	19.3	18.0	22.3	17.9
2-Chlorophenol-D4	93951-73-6	1.0	%		52.0	52.7	51.1	59.0	49.5
2.4.6-Tribromophenol	118-79-6	1.0	%		69.5	63.5	55.7	67.0	48.4
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	1.0	%		72.9	72.5	67.5	80.7	62.7
Anthracene-d10	1719-06-8	1.0	%		90.1	90.5	85.0	99.3	82.2
4-Terphenyl-d14	1718-51-0	1.0	%		81.5	81.6	79.1	90.5	84.8
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	2	%		114	114	98.5	114	112
Toluene-D8	2037-26-5	2	%		116	116	98.8	114	109
4-Bromofluorobenzene	460-00-4	2	%		109	109	92.6	104	102

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	RO1-20-01-22	Trip Spike	Trip blank	BUR-MW108	----
			Sampling date / time	20-Jan-2022 00:00	13-Jan-2022 00:00	13-Jan-2022 00:00	20-Jan-2022 00:00	----
Compound	CAS Number	LOR	Unit	ES2201979-012	ES2201979-013	ES2201979-014	ES2201979-015	--------
				Result	Result	Result	Result	----
EA015: Total Dissolved Solids dried at 180 ± 5 °C								
Total Dissolved Solids @180°C	----	10	mg/L	----	----	----	**4910**	----
ED037P: Alkalinity by PC Titrator								
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	----	----	----	<1	----
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	----	----	----	<1	----
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	----	----	----	**695**	----
Total Alkalinity as CaCO3	----	1	mg/L	----	----	----	**695**	----
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA								
Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	----	----	----	**518**	----
ED045G: Chloride by Discrete Analyser								
Chloride	16887-00-6	1	mg/L	----	----	----	**2310**	----
ED093F: Dissolved Major Cations								
Calcium	7440-70-2	1	mg/L	----	----	----	**87**	----
Magnesium	7439-95-4	1	mg/L	----	----	----	**125**	----
Sodium	7440-23-5	1	mg/L	----	----	----	**1510**	----
Potassium	7440-09-7	1	mg/L	----	----	----	**27**	----
EG020F: Dissolved Metals by ICP-MS								
Arsenic	7440-38-2	0.001	mg/L	<0.001	----	----	**0.013**	----
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	----	----	**0.0004**	----
Chromium	7440-47-3	0.001	mg/L	<0.001	----	----	<0.001	----
Copper	7440-50-8	0.001	mg/L	<0.001	----	----	**0.004**	----
Lead	7439-92-1	0.001	mg/L	<0.001	----	----	<0.001	----
Nickel	7440-02-0	0.001	mg/L	<0.001	----	----	**0.028**	----
Zinc	7440-66-6	0.005	mg/L	<0.005	----	----	**0.015**	----
Iron	7439-89-6	0.05	mg/L	<0.05	----	----	**0.06**	----
EG035F: Dissolved Mercury by FIMS								
Mercury	7439-97-6	0.0001	mg/L	<0.0001	----	----	<0.0001	----
EK055G: Ammonia as N by Discrete Analyser								
Ammonia as N	7664-41-7	0.01	mg/L	<0.01	----	----	**0.41**	----
EK057G: Nitrite as N by Discrete Analyser								
Nitrite as N	14797-65-0	0.01	mg/L	----	----	----	<0.01	----
EK058G: Nitrate as N by Discrete Analyser								
Nitrate as N	14797-55-8	0.01	mg/L	----	----	----	**0.02**	----
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser								

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	RO1-20-01-22	Trip Spike	Trip blank	BUR-MW108	----
				Sampling date / time	20-Jan-2022 00:00	13-Jan-2022 00:00	13-Jan-2022 00:00	20-Jan-2022 00:00	----
Compound	CAS Number	LOR	Unit		ES2201979-012	ES2201979-013	ES2201979-014	ES2201979-015	--------
					Result	Result	Result	Result	----
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser - Continued									
Nitrite + Nitrate as N	----	0.01	mg/L		<0.01	----	----	**0.02**	----
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser									
Total Kjeldahl Nitrogen as N	----	0.1	mg/L		<0.1	----	----	**2.6**	----
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser									
^ Total Nitrogen as N	----	0.1	mg/L		<0.1	----	----	**2.6**	----
EK067G: Total Phosphorus as P by Discrete Analyser									
Total Phosphorus as P	----	0.01	mg/L		<0.01	----	----	**3.26**	----
EN055: Ionic Balance									
ø Total Anions	----	0.01	meq/L		----	----	----	**89.8**	----
ø Total Cations	----	0.01	meq/L		----	----	----	**81.0**	----
ø Ionic Balance	----	0.01	%		----	----	----	**5.17**	----
EP074A: Monocyclic Aromatic Hydrocarbons									
Styrene	100-42-5	5	µg/L		<5	----	----	<5	----
Isopropylbenzene	98-82-8	5	µg/L		<5	----	----	<5	----
n-Propylbenzene	103-65-1	5	µg/L		<5	----	----	<5	----
1.3.5-Trimethylbenzene	108-67-8	5	µg/L		<5	----	----	<5	----
sec-Butylbenzene	135-98-8	5	µg/L		<5	----	----	<5	----
1.2.4-Trimethylbenzene	95-63-6	5	µg/L		<5	----	----	<5	----
tert-Butylbenzene	98-06-6	5	µg/L		<5	----	----	<5	----
p-Isopropyltoluene	99-87-6	5	µg/L		<5	----	----	<5	----
n-Butylbenzene	104-51-8	5	µg/L		<5	----	----	<5	----
EP074B: Oxygenated Compounds									
Vinyl Acetate	108-05-4	50	µg/L		<50	----	----	<50	----
2-Butanone (MEK)	78-93-3	50	µg/L		<50	----	----	<50	----
4-Methyl-2-pentanone (MIBK)	108-10-1	50	µg/L		<50	----	----	<50	----
2-Hexanone (MBK)	591-78-6	50	µg/L		<50	----	----	<50	----
EP074C: Sulfonated Compounds									
Carbon disulfide	75-15-0	5	µg/L		<5	----	----	<5	----
EP074D: Fumigants									
2.2-Dichloropropane	594-20-7	5	µg/L		<5	----	----	<5	----
1.2-Dichloropropane	78-87-5	5	µg/L		<5	----	----	<5	----
cis-1.3-Dichloropropylene	10061-01-5	5	µg/L		<5	----	----	<5	----
trans-1.3-Dichloropropylene	10061-02-6	5	µg/L		<5	----	----	<5	----
1.2-Dibromoethane (EDB)	106-93-4	5	µg/L		<5	----	----	<5	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	RO1-20-01-22	Trip Spike	Trip blank	BUR-MW108	----
			Sampling date / time	20-Jan-2022 00:00	13-Jan-2022 00:00	13-Jan-2022 00:00	20-Jan-2022 00:00	----
Compound	CAS Number	LOR	Unit	ES2201979-012	ES2201979-013	ES2201979-014	ES2201979-015	--------
				Result	Result	Result	Result	----
EP074E: Halogenated Aliphatic Compounds								
Dichlorodifluoromethane	75-71-8	50	µg/L	<50	----	----	<50	----
Chloromethane	74-87-3	50	µg/L	<50	----	----	<50	----
Vinyl chloride	75-01-4	50	µg/L	<50	----	----	<50	----
Bromomethane	74-83-9	50	µg/L	<50	----	----	<50	----
Chloroethane	75-00-3	50	µg/L	<50	----	----	<50	----
Trichlorofluoromethane	75-69-4	50	µg/L	<50	----	----	<50	----
1.1-Dichloroethene	75-35-4	5	µg/L	<5	----	----	<5	----
Iodomethane	74-88-4	5	µg/L	<5	----	----	<5	----
trans-1.2-Dichloroethene	156-60-5	5	µg/L	<5	----	----	<5	----
1.1-Dichloroethane	75-34-3	5	µg/L	<5	----	----	<5	----
cis-1.2-Dichloroethene	156-59-2	5	µg/L	<5	----	----	<5	----
1.1.1-Trichloroethane	71-55-6	5	µg/L	<5	----	----	<5	----
1.1-Dichloropropylene	563-58-6	5	µg/L	<5	----	----	<5	----
Carbon Tetrachloride	56-23-5	5	µg/L	<5	----	----	<5	----
1.2-Dichloroethane	107-06-2	5	µg/L	<5	----	----	<5	----
Trichloroethene	79-01-6	5	µg/L	<5	----	----	<5	----
Dibromomethane	74-95-3	5	µg/L	<5	----	----	<5	----
1.1.2-Trichloroethane	79-00-5	5	µg/L	<5	----	----	<5	----
1.3-Dichloropropane	142-28-9	5	µg/L	<5	----	----	<5	----
Tetrachloroethene	127-18-4	5	µg/L	<5	----	----	<5	----
1.1.1.2-Tetrachloroethane	630-20-6	5	µg/L	<5	----	----	<5	----
trans-1.4-Dichloro-2-butene	110-57-6	5	µg/L	<5	----	----	<5	----
cis-1.4-Dichloro-2-butene	1476-11-5	5	µg/L	<5	----	----	<5	----
1.1.2.2-Tetrachloroethane	79-34-5	5	µg/L	<5	----	----	<5	----
1.2.3-Trichloropropane	96-18-4	5	µg/L	<5	----	----	<5	----
Pentachloroethane	76-01-7	5	µg/L	<5	----	----	<5	----
1.2-Dibromo-3-chloropropane	96-12-8	5	µg/L	<5	----	----	<5	----
Hexachlorobutadiene	87-68-3	5	µg/L	<5	----	----	<5	----
EP074F: Halogenated Aromatic Compounds								
Chlorobenzene	108-90-7	5	µg/L	<5	----	----	<5	----
Bromobenzene	108-86-1	5	µg/L	<5	----	----	<5	----
2-Chlorotoluene	95-49-8	5	µg/L	<5	----	----	<5	----
4-Chlorotoluene	106-43-4	5	µg/L	<5	----	----	<5	----
1.3-Dichlorobenzene	541-73-1	5	µg/L	<5	----	----	<5	----
1.4-Dichlorobenzene	106-46-7	5	µg/L	<5	----	----	<5	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	RO1-20-01-22	Trip Spike	Trip blank	BUR-MW108	----
			Sampling date / time	20-Jan-2022 00:00	13-Jan-2022 00:00	13-Jan-2022 00:00	20-Jan-2022 00:00	----
Compound	CAS Number	LOR	Unit	ES2201979-012	ES2201979-013	ES2201979-014	ES2201979-015	--------
				Result	Result	Result	Result	----
EP074F: Halogenated Aromatic Compounds - Continued								
1.2-Dichlorobenzene	95-50-1	5	µg/L	<5	----	----	<5	----
1.2.4-Trichlorobenzene	120-82-1	5	µg/L	<5	----	----	<5	----
1.2.3-Trichlorobenzene	87-61-6	5	µg/L	<5	----	----	<5	----
EP074G: Trihalomethanes								
Chloroform	67-66-3	5	µg/L	<5	----	----	<5	----
Bromodichloromethane	75-27-4	5	µg/L	<5	----	----	<5	----
Dibromochloromethane	124-48-1	5	µg/L	<5	----	----	<5	----
Bromoform	75-25-2	5	µg/L	<5	----	----	<5	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	1.0	µg/L	<1.0	----	----	<1.0	----
Acenaphthylene	208-96-8	1.0	µg/L	<1.0	----	----	<1.0	----
Acenaphthene	83-32-9	1.0	µg/L	<1.0	----	----	<1.0	----
Fluorene	86-73-7	1.0	µg/L	<1.0	----	----	<1.0	----
Phenanthrene	85-01-8	1.0	µg/L	<1.0	----	----	<1.0	----
Anthracene	120-12-7	1.0	µg/L	<1.0	----	----	<1.0	----
Fluoranthene	206-44-0	1.0	µg/L	<1.0	----	----	<1.0	----
Pyrene	129-00-0	1.0	µg/L	<1.0	----	----	<1.0	----
Benz(a)anthracene	56-55-3	1.0	µg/L	<1.0	----	----	<1.0	----
Chrysene	218-01-9	1.0	µg/L	<1.0	----	----	<1.0	----
Benzo(b+j)fluoranthene	205-99-2 205-82-3	1.0	µg/L	<1.0	----	----	<1.0	----
Benzo(k)fluoranthene	207-08-9	1.0	µg/L	<1.0	----	----	<1.0	----
Benzo(a)pyrene	50-32-8	0.5	µg/L	<0.5	----	----	<0.5	----
Indeno(1.2.3.cd)pyrene	193-39-5	1.0	µg/L	<1.0	----	----	<1.0	----
Dibenz(a.h)anthracene	53-70-3	1.0	µg/L	<1.0	----	----	<1.0	----
Benzo(g.h.i)perylene	191-24-2	1.0	µg/L	<1.0	----	----	<1.0	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	µg/L	<0.5	----	----	<0.5	----
^ Benzo(a)pyrene TEQ (zero)	----	0.5	µg/L	<0.5	----	----	<0.5	----
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	20	µg/L	<20	----	<20	<20	----
C10 - C14 Fraction	----	50	µg/L	<50	----	----	<50	----
C15 - C28 Fraction	----	100	µg/L	<100	----	----	<100	----
C29 - C36 Fraction	----	50	µg/L	<50	----	----	<50	----
^ C10 - C36 Fraction (sum)	----	50	µg/L	<50	----	----	<50	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	RO1-20-01-22	Trip Spike	Trip blank	BUR-MW108	----
				Sampling date / time	20-Jan-2022 00:00	13-Jan-2022 00:00	13-Jan-2022 00:00	20-Jan-2022 00:00	----
Compound	CAS Number	LOR	Unit		ES2201979-012	ES2201979-013	ES2201979-014	ES2201979-015	--------
					Result	Result	Result	Result	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued									
C6 - C10 Fraction	C6_C10	20	µg/L		<20	----	<20	<20	----
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	µg/L		<20	----	<20	<20	----
>C10 - C16 Fraction	----	100	µg/L		<100	----	----	<100	----
>C16 - C34 Fraction	----	100	µg/L		<100	----	----	<100	----
>C34 - C40 Fraction	----	100	µg/L		<100	----	----	<100	----
^ >C10 - C40 Fraction (sum)	----	100	µg/L		<100	----	----	<100	----
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	100	µg/L		<100	----	----	<100	----
EP080: BTEXN									
Benzene	71-43-2	1	µg/L		<1	<1	<1	<1	----
Toluene	108-88-3	2	µg/L		<2	<2	<2	<2	----
Ethylbenzene	100-41-4	2	µg/L		<2	<2	<2	<2	----
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L		<2	<2	<2	<2	----
ortho-Xylene	95-47-6	2	µg/L		<2	<2	<2	<2	----
^ Total Xylenes	----	2	µg/L		<2	<2	<2	<2	----
^ Sum of BTEX	----	1	µg/L		<1	<1	<1	<1	----
Naphthalene	91-20-3	5	µg/L		<5	<5	<5	<5	----
EP074S: VOC Surrogates									
1.2-Dichloroethane-D4	17060-07-0	5	%		**96.8**	----	----	**100**	----
Toluene-D8	2037-26-5	5	%		**103**	----	----	**107**	----
4-Bromofluorobenzene	460-00-4	5	%		**87.8**	----	----	**98.7**	----
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	1.0	%		**18.8**	----	----	**19.6**	----
2-Chlorophenol-D4	93951-73-6	1.0	%		**51.6**	----	----	**51.4**	----
2.4.6-Tribromophenol	118-79-6	1.0	%		**51.6**	----	----	**54.8**	----
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	1.0	%		**61.2**	----	----	**63.9**	----
Anthracene-d10	1719-06-8	1.0	%		**87.2**	----	----	**89.8**	----
4-Terphenyl-d14	1718-51-0	1.0	%		**91.4**	----	----	**84.5**	----
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	2	%		**109**	**111**	**105**	**111**	----
Toluene-D8	2037-26-5	2	%		**107**	**111**	**110**	**116**	----
4-Bromofluorobenzene	460-00-4	2	%		**101**	**105**	**105**	**110**	----

Surrogate Control Limits

Sub-Matrix: **WATER**

Compound	CAS Number	Recovery Limits (%) Low	High
EP074S: VOC Surrogates			
1.2-Dichloroethane-D4	17060-07-0	78	133
Toluene-D8	2037-26-5	79	129
4-Bromofluorobenzene	460-00-4	81	124
EP075(SIM)S: Phenolic Compound Surrogates			
Phenol-d6	13127-88-3	10	44
2-Chlorophenol-D4	93951-73-6	14	94
2.4.6-Tribromophenol	118-79-6	17	125
EP075(SIM)T: PAH Surrogates			
2-Fluorobiphenyl	321-60-8	20	104
Anthracene-d10	1719-06-8	27	113
4-Terphenyl-d14	1718-51-0	32	112
EP080S: TPH(V)/BTEX Surrogates			
1.2-Dichloroethane-D4	17060-07-0	71	137
Toluene-D8	2037-26-5	79	131
4-Bromofluorobenzene	460-00-4	70	128

QUALITY CONTROL REPORT

Work Order	: **ES2201979**	Page	: 1 of 13
Client	: **ENVIRONMENTAL RESOURCES MANAGEMENT (ERM)**	Laboratory	: Environmental Division Sydney
Contact	: NICHOLAS GRBICH	Contact	: Customer Services ES
Address	: LEVEL 15 309 KENT STREET SYDNEY NSW AUSTRALIA 2000	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: ----	Telephone	: +61-2-8784 8555
Project	: 0628507	Date Samples Received	: 20-Jan-2022
Order number	: ----	Date Analysis Commenced	: 22-Jan-2022
C-O-C number	: ----	Issue Date	: 31-Jan-2022
Sampler	: TAJ MONDON		
Site	: ----		
Quote number	: EN/114		
No. of samples received	: 16		
No. of samples analysed	: 14		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Ankit Joshi	Inorganic Chemist	Sydney Inorganics, Smithfield, NSW
Edwandy Fadjar	Organic Coordinator	Sydney Organics, Smithfield, NSW
Ivan Taylor	Analyst	Sydney Inorganics, Smithfield, NSW

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis. Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Key : Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot
CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
RPD = Relative Percentage Difference
# = Indicates failed QC

Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EA015: Total Dissolved Solids dried at 180 ± 5 °C (QC Lot: 4136387)									
ES2201867-002	Anonymous	EA015H: Total Dissolved Solids @180°C	----	10	mg/L	4010	3920	2.3	0% - 20%
EW2200210-001	Anonymous	EA015H: Total Dissolved Solids @180°C	----	10	mg/L	458	486	5.8	0% - 20%
EA015: Total Dissolved Solids dried at 180 ± 5 °C (QC Lot: 4136430)									
ES2201969-001	Anonymous	EA015H: Total Dissolved Solids @180°C	----	10	mg/L	104	138	28.9	0% - 50%
ES2202013-003	Anonymous	EA015H: Total Dissolved Solids @180°C	----	10	mg/L	509	512	0.7	0% - 20%
ED037P: Alkalinity by PC Titrator (QC Lot: 4137312)									
ES2201979-001	S51	ED037-P: Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1	<1	0.0	No Limit
		ED037-P: Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	<1	<1	0.0	No Limit
		ED037-P: Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	700	714	2.0	0% - 20%
		ED037-P: Total Alkalinity as CaCO3	----	1	mg/L	700	714	2.0	0% - 20%
ES2202025-001	Anonymous	ED037-P: Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1	<1	0.0	No Limit
		ED037-P: Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	<1	<1	0.0	No Limit
		ED037-P: Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	410	416	1.5	0% - 20%
		ED037-P: Total Alkalinity as CaCO3	----	1	mg/L	410	416	1.5	0% - 20%
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA (QC Lot: 4133588)									
ES2201979-006	S40_d	ED041G: Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	680	709	4.2	0% - 20%
ES2201864-002	Anonymous	ED041G: Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	1300	1270	2.7	0% - 20%
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA (QC Lot: 4133619)									
ES2202069-002	Anonymous	ED041G: Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	522	550	5.2	0% - 20%
ES2201940-001	Anonymous	ED041G: Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	299	299	0.0	0% - 20%
ED045G: Chloride by Discrete Analyser (QC Lot: 4133589)									
ES2201979-006	S40_d	ED045G: Chloride	16887-00-6	1	mg/L	8110	8040	1.0	0% - 20%
ES2201864-002	Anonymous	ED045G: Chloride	16887-00-6	1	mg/L	1820	1830	0.5	0% - 20%

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
ED045G: Chloride by Discrete Analyser (QC Lot: 4133618)									
ES2201976-001	Anonymous	ED045G: Chloride	16887-00-6	1	mg/L	44	44	0.0	0% - 20%
ES2201940-001	Anonymous	ED045G: Chloride	16887-00-6	1	mg/L	288	289	0.0	0% - 20%
ED093F: Dissolved Major Cations (QC Lot: 4138240)									
ES2201979-001	S51	ED093F: Calcium	7440-70-2	1	mg/L	150	152	1.4	0% - 20%
		ED093F: Magnesium	7439-95-4	1	mg/L	49	51	2.7	0% - 20%
		ED093F: Sodium	7440-23-5	1	mg/L	67	68	1.7	0% - 20%
		ED093F: Potassium	7440-09-7	1	mg/L	23	23	0.0	0% - 20%
ES2202046-001	Anonymous	ED093F: Calcium	7440-70-2	1	mg/L	82	77	5.6	0% - 20%
		ED093F: Magnesium	7439-95-4	1	mg/L	102	101	1.7	0% - 20%
		ED093F: Sodium	7440-23-5	1	mg/L	615	595	3.3	0% - 20%
		ED093F: Potassium	7440-09-7	1	mg/L	32	31	3.9	0% - 20%
EG020F: Dissolved Metals by ICP-MS (QC Lot: 4138238)									
ES2201979-001	S51	EG020A-F: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
		EG020A-F: Arsenic	7440-38-2	0.001	mg/L	0.065	0.066	2.3	0% - 20%
		EG020A-F: Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-F: Copper	7440-50-8	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-F: Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-F: Nickel	7440-02-0	0.001	mg/L	<0.001	0.001	0.0	No Limit
		EG020A-F: Zinc	7440-66-6	0.005	mg/L	<0.005	<0.005	0.0	No Limit
		EG020A-F: Iron	7439-89-6	0.05	mg/L	19.1	19.3	1.3	0% - 20%
ES2202046-001	Anonymous	EG020A-F: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
		EG020A-F: Arsenic	7440-38-2	0.001	mg/L	0.002	0.002	0.0	No Limit
		EG020A-F: Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-F: Copper	7440-50-8	0.001	mg/L	<0.001	0.001	0.0	No Limit
		EG020A-F: Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-F: Nickel	7440-02-0	0.001	mg/L	0.003	0.003	0.0	No Limit
		EG020A-F: Zinc	7440-66-6	0.005	mg/L	<0.005	<0.005	0.0	No Limit
		EG020A-F: Iron	7439-89-6	0.05	mg/L	<0.05	<0.05	0.0	No Limit
EG035F: Dissolved Mercury by FIMS (QC Lot: 4138239)									
ES2201979-004	S06	EG035F: Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
ES2201979-011	RO1-220119	EG035F: Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
EK055G: Ammonia as N by Discrete Analyser (QC Lot: 4136962)									
ES2201979-001	S51	EK055G: Ammonia as N	7664-41-7	0.01	mg/L	4.75	4.70	1.1	0% - 20%
EK057G: Nitrite as N by Discrete Analyser (QC Lot: 4133586)									
ES2201979-006	S40_d	EK057G: Nitrite as N	14797-65-0	0.01	mg/L	<0.10	<0.10	0.0	No Limit
ES2201864-002	Anonymous	EK057G: Nitrite as N	14797-65-0	0.01	mg/L	0.30	0.30	0.0	0% - 20%
EK057G: Nitrite as N by Discrete Analyser (QC Lot: 4133617)									
ES2202069-002	Anonymous	EK057G: Nitrite as N	14797-65-0	0.01	mg/L	<0.01	<0.01	0.0	No Limit
ES2201940-001	Anonymous	EK057G: Nitrite as N	14797-65-0	0.01	mg/L	<0.01	<0.01	0.0	No Limit

Sub-Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report					
				LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QC Lot: 4136963)									
ES2201979-001	S51	EK059G: Nitrite + Nitrate as N	----	0.01	mg/L	<0.10	0.19	62.5	No Limit
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser (QC Lot: 4136959)									
ES2201979-001	S51	EK061G: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	6.8	6.6	2.8	0% - 50%
ES2201979-011	RO1-220119	EK061G: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	<0.1	<0.1	0.0	No Limit
EK067G: Total Phosphorus as P by Discrete Analyser (QC Lot: 4136958)									
ES2201979-001	S51	EK067G: Total Phosphorus as P	----	0.01	mg/L	0.68	0.69	1.6	0% - 50%
ES2201979-011	RO1-220119	EK067G: Total Phosphorus as P	----	0.01	mg/L	<0.01	<0.01	0.0	No Limit
EP074A: Monocyclic Aromatic Hydrocarbons (QC Lot: 4137794)									
ES2201979-001	S51	EP074: Styrene	100-42-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: Isopropylbenzene	98-82-8	5	µg/L	<5	<5	0.0	No Limit
		EP074: n-Propylbenzene	103-65-1	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.3.5-Trimethylbenzene	108-67-8	5	µg/L	<5	<5	0.0	No Limit
		EP074: sec-Butylbenzene	135-98-8	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2.4-Trimethylbenzene	95-63-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: tert-Butylbenzene	98-06-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: p-Isopropyltoluene	99-87-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: n-Butylbenzene	104-51-8	5	µg/L	<5	<5	0.0	No Limit
ES2201979-005	S40_s	EP074: Styrene	100-42-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: Isopropylbenzene	98-82-8	5	µg/L	<5	<5	0.0	No Limit
		EP074: n-Propylbenzene	103-65-1	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.3.5-Trimethylbenzene	108-67-8	5	µg/L	<5	<5	0.0	No Limit
		EP074: sec-Butylbenzene	135-98-8	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2.4-Trimethylbenzene	95-63-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: tert-Butylbenzene	98-06-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: p-Isopropyltoluene	99-87-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: n-Butylbenzene	104-51-8	5	µg/L	<5	<5	0.0	No Limit
EP074B: Oxygenated Compounds (QC Lot: 4137794)									
ES2201979-001	S51	EP074: Vinyl Acetate	108-05-4	50	µg/L	<50	<50	0.0	No Limit
		EP074: 2-Butanone (MEK)	78-93-3	50	µg/L	<50	<50	0.0	No Limit
		EP074: 4-Methyl-2-pentanone (MIBK)	108-10-1	50	µg/L	<50	<50	0.0	No Limit
		EP074: 2-Hexanone (MBK)	591-78-6	50	µg/L	<50	<50	0.0	No Limit
ES2201979-005	S40_s	EP074: Vinyl Acetate	108-05-4	50	µg/L	<50	<50	0.0	No Limit
		EP074: 2-Butanone (MEK)	78-93-3	50	µg/L	<50	<50	0.0	No Limit
		EP074: 4-Methyl-2-pentanone (MIBK)	108-10-1	50	µg/L	<50	<50	0.0	No Limit
		EP074: 2-Hexanone (MBK)	591-78-6	50	µg/L	<50	<50	0.0	No Limit
EP074C: Sulfonated Compounds (QC Lot: 4137794)									
ES2201979-001	S51	EP074: Carbon disulfide	75-15-0	5	µg/L	<5	<5	0.0	No Limit
ES2201979-005	S40_s	EP074: Carbon disulfide	75-15-0	5	µg/L	<5	<5	0.0	No Limit
EP074D: Fumigants (QC Lot: 4137794)									

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP074D: Fumigants (QC Lot: 4137794) - continued									
ES2201979-001	S51	EP074: 2.2-Dichloropropane	594-20-7	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2-Dichloropropane	78-87-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: cis-1.3-Dichloropropylene	10061-01-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: trans-1.3-Dichloropropylene	10061-02-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2-Dibromoethane (EDB)	106-93-4	5	µg/L	<5	<5	0.0	No Limit
ES2201979-005	S40_s	EP074: 2.2-Dichloropropane	594-20-7	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2-Dichloropropane	78-87-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: cis-1.3-Dichloropropylene	10061-01-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: trans-1.3-Dichloropropylene	10061-02-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2-Dibromoethane (EDB)	106-93-4	5	µg/L	<5	<5	0.0	No Limit
EP074E: Halogenated Aliphatic Compounds (QC Lot: 4137794)									
ES2201979-001	S51	EP074: 1.1-Dichloroethene	75-35-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: Iodomethane	74-88-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: trans-1.2-Dichloroethene	156-60-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1-Dichloroethane	75-34-3	5	µg/L	<5	<5	0.0	No Limit
		EP074: cis-1.2-Dichloroethene	156-59-2	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1.1-Trichloroethane	71-55-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1-Dichloropropylene	563-58-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: Carbon Tetrachloride	56-23-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2-Dichloroethane	107-06-2	5	µg/L	<5	<5	0.0	No Limit
		EP074: Trichloroethene	79-01-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: Dibromomethane	74-95-3	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1.2-Trichloroethane	79-00-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.3-Dichloropropane	142-28-9	5	µg/L	<5	<5	0.0	No Limit
		EP074: Tetrachloroethene	127-18-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1.1.2-Tetrachloroethane	630-20-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: trans-1.4-Dichloro-2-butene	110-57-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: cis-1.4-Dichloro-2-butene	1476-11-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1.2.2-Tetrachloroethane	79-34-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2.3-Trichloropropane	96-18-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: Pentachloroethane	76-01-7	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2-Dibromo-3-chloropropane	96-12-8	5	µg/L	<5	<5	0.0	No Limit
		EP074: Hexachlorobutadiene	87-68-3	5	µg/L	<5	<5	0.0	No Limit
		EP074: Dichlorodifluoromethane	75-71-8	50	µg/L	<50	<50	0.0	No Limit
		EP074: Chloromethane	74-87-3	50	µg/L	<50	<50	0.0	No Limit
		EP074: Vinyl chloride	75-01-4	50	µg/L	<50	<50	0.0	No Limit
		EP074: Bromomethane	74-83-9	50	µg/L	<50	<50	0.0	No Limit
		EP074: Chloroethane	75-00-3	50	µg/L	<50	<50	0.0	No Limit
		EP074: Trichlorofluoromethane	75-69-4	50	µg/L	<50	<50	0.0	No Limit
ES2201979-005	S40_s	EP074: 1.1-Dichloroethene	75-35-4	5	µg/L	<5	<5	0.0	No Limit

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP074E: Halogenated Aliphatic Compounds (QC Lot: 4137794) - continued									
ES2201979-005	S40_s	EP074: Iodomethane	74-88-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: trans-1.2-Dichloroethene	156-60-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1-Dichloroethane	75-34-3	5	µg/L	<5	<5	0.0	No Limit
		EP074: cis-1.2-Dichloroethene	156-59-2	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1.1-Trichloroethane	71-55-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1-Dichloropropylene	563-58-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: Carbon Tetrachloride	56-23-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2-Dichloroethane	107-06-2	5	µg/L	<5	<5	0.0	No Limit
		EP074: Trichloroethene	79-01-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: Dibromomethane	74-95-3	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1.2-Trichloroethane	79-00-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.3-Dichloropropane	142-28-9	5	µg/L	<5	<5	0.0	No Limit
		EP074: Tetrachloroethene	127-18-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1.1.2-Tetrachloroethane	630-20-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: trans-1.4-Dichloro-2-butene	110-57-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: cis-1.4-Dichloro-2-butene	1476-11-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1.2.2-Tetrachloroethane	79-34-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2.3-Trichloropropane	96-18-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: Pentachloroethane	76-01-7	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2-Dibromo-3-chloropropane	96-12-8	5	µg/L	<5	<5	0.0	No Limit
		EP074: Hexachlorobutadiene	87-68-3	5	µg/L	<5	<5	0.0	No Limit
		EP074: Dichlorodifluoromethane	75-71-8	50	µg/L	<50	<50	0.0	No Limit
		EP074: Chloromethane	74-87-3	50	µg/L	<50	<50	0.0	No Limit
		EP074: Vinyl chloride	75-01-4	50	µg/L	<50	<50	0.0	No Limit
		EP074: Bromomethane	74-83-9	50	µg/L	<50	<50	0.0	No Limit
		EP074: Chloroethane	75-00-3	50	µg/L	<50	<50	0.0	No Limit
		EP074: Trichlorofluoromethane	75-69-4	50	µg/L	<50	<50	0.0	No Limit
EP074F: Halogenated Aromatic Compounds (QC Lot: 4137794)									
ES2201979-001	S51	EP074: Chlorobenzene	108-90-7	5	µg/L	<5	<5	0.0	No Limit
		EP074: Bromobenzene	108-86-1	5	µg/L	<5	<5	0.0	No Limit
		EP074: 2-Chlorotoluene	95-49-8	5	µg/L	<5	<5	0.0	No Limit
		EP074: 4-Chlorotoluene	106-43-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.3-Dichlorobenzene	541-73-1	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.4-Dichlorobenzene	106-46-7	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2-Dichlorobenzene	95-50-1	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2.4-Trichlorobenzene	120-82-1	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2.3-Trichlorobenzene	87-61-6	5	µg/L	<5	<5	0.0	No Limit
ES2201979-005	S40_s	EP074: Chlorobenzene	108-90-7	5	µg/L	<5	<5	0.0	No Limit
		EP074: Bromobenzene	108-86-1	5	µg/L	<5	<5	0.0	No Limit
		EP074: 2-Chlorotoluene	95-49-8	5	µg/L	<5	<5	0.0	No Limit

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP074F: Halogenated Aromatic Compounds (QC Lot: 4137794) - continued									
ES2201979-005	S40_s	EP074: 4-Chlorotoluene	106-43-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.3-Dichlorobenzene	541-73-1	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.4-Dichlorobenzene	106-46-7	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2-Dichlorobenzene	95-50-1	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2.4-Trichlorobenzene	120-82-1	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2.3-Trichlorobenzene	87-61-6	5	µg/L	<5	<5	0.0	No Limit
EP074G: Trihalomethanes (QC Lot: 4137794)									
ES2201979-001	S51	EP074: Chloroform	67-66-3	5	µg/L	<5	<5	0.0	No Limit
		EP074: Bromodichloromethane	75-27-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: Dibromochloromethane	124-48-1	5	µg/L	<5	<5	0.0	No Limit
		EP074: Bromoform	75-25-2	5	µg/L	<5	<5	0.0	No Limit
ES2201979-005	S40_s	EP074: Chloroform	67-66-3	5	µg/L	<5	<5	0.0	No Limit
		EP074: Bromodichloromethane	75-27-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: Dibromochloromethane	124-48-1	5	µg/L	<5	<5	0.0	No Limit
		EP074: Bromoform	75-25-2	5	µg/L	<5	<5	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4137793)									
ES2201979-001	S51	EP080: C6 - C9 Fraction	----	20	µg/L	<20	<20	0.0	No Limit
ES2201979-005	S40_s	EP080: C6 - C9 Fraction	----	20	µg/L	<20	<20	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4137793)									
ES2201979-001	S51	EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	<20	0.0	No Limit
ES2201979-005	S40_s	EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	<20	0.0	No Limit
EP080: BTEXN (QC Lot: 4137793)									
ES2201979-001	S51	EP080: Benzene	71-43-2	1	µg/L	<1	<1	0.0	No Limit
		EP080: Toluene	108-88-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	2	µg/L	<2	<2	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	2	µg/L	<2	<2	0.0	No Limit
		EP080: Naphthalene	91-20-3	5	µg/L	<5	<5	0.0	No Limit
ES2201979-005	S40_s	EP080: Benzene	71-43-2	1	µg/L	<1	<1	0.0	No Limit
		EP080: Toluene	108-88-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	2	µg/L	<2	<2	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	2	µg/L	<2	<2	0.0	No Limit
		EP080: Naphthalene	91-20-3	5	µg/L	<5	<5	0.0	No Limit

Method Blank (MB) and Laboratory Control Sample (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Sample (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

Sub-Matrix: **WATER**

				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EA015: Total Dissolved Solids dried at 180 ± 5 °C (QCLot: 4136387)								
EA015H: Total Dissolved Solids @180°C	----	10	mg/L	<10	2000 mg/L	101	87.0	109
				<10	293 mg/L	109	75.2	126
				<10	2835 mg/L	105	83.0	124
EA015: Total Dissolved Solids dried at 180 ± 5 °C (QCLot: 4136430)								
EA015H: Total Dissolved Solids @180°C	----	10	mg/L	<10	2000 mg/L	104	87.0	109
				<10	293 mg/L	116	75.2	126
				<10	2835 mg/L	106	83.0	124
ED037P: Alkalinity by PC Titrator (QCLot: 4137312)								
ED037-P: Total Alkalinity as CaCO3	----	----	mg/L	----	200 mg/L	103	81.0	111
				----	50 mg/L	120	80.0	120
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA (QCLot: 4133588)								
ED041G: Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	<1	25 mg/L	99.0	82.0	122
				<1	500 mg/L	94.9	82.0	122
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA (QCLot: 4133619)								
ED041G: Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	<1	25 mg/L	99.4	82.0	122
				<1	500 mg/L	88.0	82.0	122
ED045G: Chloride by Discrete Analyser (QCLot: 4133589)								
ED045G: Chloride	16887-00-6	1	mg/L	<1	50 mg/L	100	80.9	127
				<1	1000 mg/L	105	80.9	127
ED045G: Chloride by Discrete Analyser (QCLot: 4133618)								
ED045G: Chloride	16887-00-6	1	mg/L	<1	50 mg/L	100	80.9	127
				<1	1000 mg/L	106	80.9	127
ED093F: Dissolved Major Cations (QCLot: 4138240)								
ED093F: Calcium	7440-70-2	1	mg/L	<1	50 mg/L	93.8	80.0	114
ED093F: Magnesium	7439-95-4	1	mg/L	<1	50 mg/L	102	90.0	116
ED093F: Sodium	7440-23-5	1	mg/L	<1	50 mg/L	97.4	82.0	120
ED093F: Potassium	7440-09-7	1	mg/L	<1	50 mg/L	100	85.0	113
EG020F: Dissolved Metals by ICP-MS (QCLot: 4138238)								
EG020A-F: Arsenic	7440-38-2	0.001	mg/L	<0.001	0.1 mg/L	104	85.0	114
EG020A-F: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	0.1 mg/L	106	84.0	110
EG020A-F: Chromium	7440-47-3	0.001	mg/L	<0.001	0.1 mg/L	102	85.0	111
EG020A-F: Copper	7440-50-8	0.001	mg/L	<0.001	0.1 mg/L	97.0	81.0	111
EG020A-F: Lead	7439-92-1	0.001	mg/L	<0.001	0.1 mg/L	98.0	83.0	111
EG020A-F: Nickel	7440-02-0	0.001	mg/L	<0.001	0.1 mg/L	105	82.0	112

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EG020F: Dissolved Metals by ICP-MS (QCLot: 4138238) - continued								
EG020A-F: Zinc	7440-66-6	0.005	mg/L	<0.005	0.1 mg/L	104	81.0	117
EG020A-F: Iron	7439-89-6	0.05	mg/L	<0.05	0.5 mg/L	100	82.0	112
EG035F: Dissolved Mercury by FIMS (QCLot: 4138239)								
EG035F: Mercury	7439-97-6	0.0001	mg/L	<0.0001	0.01 mg/L	94.4	83.0	105
EK055G: Ammonia as N by Discrete Analyser (QCLot: 4136962)								
EK055G: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	1 mg/L	103	90.0	114
EK057G: Nitrite as N by Discrete Analyser (QCLot: 4133586)								
EK057G: Nitrite as N	14797-65-0	0.01	mg/L	<0.01	0.5 mg/L	106	82.0	114
EK057G: Nitrite as N by Discrete Analyser (QCLot: 4133617)								
EK057G: Nitrite as N	14797-65-0	0.01	mg/L	<0.01	0.5 mg/L	105	82.0	114
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QCLot: 4136963)								
EK059G: Nitrite + Nitrate as N	----	0.01	mg/L	<0.01	0.5 mg/L	101	91.0	113
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser (QCLot: 4136959)								
EK061G: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	<0.1	10 mg/L	89.4	69.0	101
				<0.1	1 mg/L	109	70.0	118
				<0.1	5 mg/L	95.9	70.0	130
EK067G: Total Phosphorus as P by Discrete Analyser (QCLot: 4136958)								
EK067G: Total Phosphorus as P	----	0.01	mg/L	<0.01	4.42 mg/L	91.1	71.0	101
				<0.01	0.442 mg/L	# 109	72.0	108
				<0.01	1 mg/L	96.7	70.0	130
EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 4137794)								
EP074: Styrene	100-42-5	5	µg/L	<5	10 µg/L	98.4	73.0	119
EP074: Isopropylbenzene	98-82-8	5	µg/L	<5	10 µg/L	103	76.0	118
EP074: n-Propylbenzene	103-65-1	5	µg/L	<5	10 µg/L	99.3	69.0	119
EP074: 1.3.5-Trimethylbenzene	108-67-8	5	µg/L	<5	10 µg/L	99.0	74.0	116
EP074: sec-Butylbenzene	135-98-8	5	µg/L	<5	10 µg/L	101	73.0	119
EP074: 1.2.4-Trimethylbenzene	95-63-6	5	µg/L	<5	10 µg/L	102	74.0	116
EP074: tert-Butylbenzene	98-06-6	5	µg/L	<5	10 µg/L	99.6	72.0	116
EP074: p-Isopropyltoluene	99-87-6	5	µg/L	<5	10 µg/L	98.3	71.0	119
EP074: n-Butylbenzene	104-51-8	5	µg/L	<5	10 µg/L	101	65.0	123
EP074B: Oxygenated Compounds (QCLot: 4137794)								
EP074: Vinyl Acetate	108-05-4	50	µg/L	<50	100 µg/L	107	61.4	134
EP074: 2-Butanone (MEK)	78-93-3	50	µg/L	<50	100 µg/L	127	73.6	130
EP074: 4-Methyl-2-pentanone (MIBK)	108-10-1	50	µg/L	<50	100 µg/L	120	66.0	132
EP074: 2-Hexanone (MBK)	591-78-6	50	µg/L	<50	100 µg/L	116	65.0	137
EP074C: Sulfonated Compounds (QCLot: 4137794)								
EP074: Carbon disulfide	75-15-0	5	µg/L	<5	10 µg/L	100	72.8	127

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP074D: Fumigants (QCLot: 4137794)								
EP074: 2.2-Dichloropropane	594-20-7	5	µg/L	<5	10 µg/L	107	68.0	122
EP074: 1.2-Dichloropropane	78-87-5	5	µg/L	<5	10 µg/L	108	76.0	118
EP074: cis-1.3-Dichloropropylene	10061-01-5	5	µg/L	<5	10 µg/L	109	62.0	120
EP074: trans-1.3-Dichloropropylene	10061-02-6	5	µg/L	<5	10 µg/L	109	60.0	114
EP074: 1.2-Dibromoethane (EDB)	106-93-4	5	µg/L	<5	10 µg/L	116	69.0	117
EP074E: Halogenated Aliphatic Compounds (QCLot: 4137794)								
EP074: Dichlorodifluoromethane	75-71-8	50	µg/L	<50	100 µg/L	95.2	60.6	138
EP074: Chloromethane	74-87-3	50	µg/L	<50	100 µg/L	104	67.4	130
EP074: Vinyl chloride	75-01-4	50	µg/L	<50	100 µg/L	102	69.4	129
EP074: Bromomethane	74-83-9	50	µg/L	<50	100 µg/L	112	56.0	140
EP074: Chloroethane	75-00-3	50	µg/L	<50	100 µg/L	103	61.0	139
EP074: Trichlorofluoromethane	75-69-4	50	µg/L	<50	100 µg/L	104	69.0	131
EP074: 1.1-Dichloroethene	75-35-4	5	µg/L	<5	10 µg/L	107	70.0	124
EP074: Iodomethane	74-88-4	5	µg/L	<5	10 µg/L	98.4	70.2	128
EP074: trans-1.2-Dichloroethene	156-60-5	5	µg/L	<5	10 µg/L	102	74.0	118
EP074: 1.1-Dichloroethane	75-34-3	5	µg/L	<5	10 µg/L	110	74.0	120
EP074: cis-1.2-Dichloroethene	156-59-2	5	µg/L	<5	10 µg/L	107	77.0	119
EP074: 1.1.1-Trichloroethane	71-55-6	5	µg/L	<5	10 µg/L	106	67.0	119
EP074: 1.1-Dichloropropylene	563-58-6	5	µg/L	<5	10 µg/L	103	73.0	119
EP074: Carbon Tetrachloride	56-23-5	5	µg/L	<5	10 µg/L	102	62.0	120
EP074: 1.2-Dichloroethane	107-06-2	5	µg/L	<5	10 µg/L	116	73.0	123
EP074: Trichloroethene	79-01-6	5	µg/L	<5	10 µg/L	105	76.0	118
EP074: Dibromomethane	74-95-3	5	µg/L	<5	10 µg/L	110	73.0	119
EP074: 1.1.2-Trichloroethane	79-00-5	5	µg/L	<5	10 µg/L	115	72.0	126
EP074: 1.3-Dichloropropane	142-28-9	5	µg/L	<5	10 µg/L	114	71.0	129
EP074: Tetrachloroethene	127-18-4	5	µg/L	<5	10 µg/L	110	72.0	124
EP074: 1.1.1.2-Tetrachloroethane	630-20-6	5	µg/L	<5	10 µg/L	106	66.0	114
EP074: trans-1.4-Dichloro-2-butene	110-57-6	5	µg/L	<5	10 µg/L	112	60.0	120
EP074: cis-1.4-Dichloro-2-butene	1476-11-5	5	µg/L	<5	10 µg/L	114	70.6	128
EP074: 1.1.2.2-Tetrachloroethane	79-34-5	5	µg/L	<5	10 µg/L	117	70.0	124
EP074: 1.2.3-Trichloropropane	96-18-4	5	µg/L	<5	10 µg/L	111	74.0	126
EP074: Pentachloroethane	76-01-7	5	µg/L	<5	10 µg/L	107	71.8	126
EP074: 1.2-Dibromo-3-chloropropane	96-12-8	5	µg/L	<5	10 µg/L	112	66.4	136
EP074: Hexachlorobutadiene	87-68-3	5	µg/L	<5	10 µg/L	107	58.0	130
EP074F: Halogenated Aromatic Compounds (QCLot: 4137794)								
EP074: Chlorobenzene	108-90-7	5	µg/L	<5	10 µg/L	109	79.0	117
EP074: Bromobenzene	108-86-1	5	µg/L	<5	10 µg/L	105	76.0	116
EP074: 2-Chlorotoluene	95-49-8	5	µg/L	<5	10 µg/L	104	73.0	119
EP074: 4-Chlorotoluene	106-43-4	5	µg/L	<5	10 µg/L	104	73.0	119

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP074F: Halogenated Aromatic Compounds (QCLot: 4137794) - continued								
EP074: 1.3-Dichlorobenzene	541-73-1	5	µg/L	<5	10 µg/L	106	75.0	117
EP074: 1.4-Dichlorobenzene	106-46-7	5	µg/L	<5	10 µg/L	108	74.0	118
EP074: 1.2-Dichlorobenzene	95-50-1	5	µg/L	<5	10 µg/L	111	75.0	117
EP074: 1.2.4-Trichlorobenzene	120-82-1	5	µg/L	<5	10 µg/L	108	61.0	125
EP074: 1.2.3-Trichlorobenzene	87-61-6	5	µg/L	<5	10 µg/L	116	67.0	123
EP074G: Trihalomethanes (QCLot: 4137794)								
EP074: Chloroform	67-66-3	5	µg/L	<5	10 µg/L	111	72.0	120
EP074: Bromodichloromethane	75-27-4	5	µg/L	<5	10 µg/L	109	64.0	118
EP074: Dibromochloromethane	124-48-1	5	µg/L	<5	10 µg/L	109	65.0	115
EP074: Bromoform	75-25-2	5	µg/L	<5	10 µg/L	118	73.5	126
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 4134328)								
EP075(SIM): Naphthalene	91-20-3	1	µg/L	<1.0	5 µg/L	75.0	50.0	94.0
EP075(SIM): Acenaphthylene	208-96-8	1	µg/L	<1.0	5 µg/L	81.0	63.6	114
EP075(SIM): Acenaphthene	83-32-9	1	µg/L	<1.0	5 µg/L	88.5	62.2	113
EP075(SIM): Fluorene	86-73-7	1	µg/L	<1.0	5 µg/L	83.0	63.9	115
EP075(SIM): Phenanthrene	85-01-8	1	µg/L	<1.0	5 µg/L	74.8	62.6	116
EP075(SIM): Anthracene	120-12-7	1	µg/L	<1.0	5 µg/L	73.6	64.3	116
EP075(SIM): Fluoranthene	206-44-0	1	µg/L	<1.0	5 µg/L	86.5	63.6	118
EP075(SIM): Pyrene	129-00-0	1	µg/L	<1.0	5 µg/L	86.2	63.1	118
EP075(SIM): Benz(a)anthracene	56-55-3	1	µg/L	<1.0	5 µg/L	77.3	64.1	117
EP075(SIM): Chrysene	218-01-9	1	µg/L	<1.0	5 µg/L	82.7	62.5	116
EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	1	µg/L	<1.0	5 µg/L	69.4	61.7	119
EP075(SIM): Benzo(k)fluoranthene	207-08-9	1	µg/L	<1.0	5 µg/L	73.4	63.0	115
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	µg/L	<0.5	5 µg/L	70.0	63.3	117
EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	1	µg/L	<1.0	5 µg/L	75.2	59.9	118
EP075(SIM): Dibenz(a.h)anthracene	53-70-3	1	µg/L	<1.0	5 µg/L	75.6	61.2	117
EP075(SIM): Benzo(g.h.i)perylene	191-24-2	1	µg/L	<1.0	5 µg/L	70.7	59.1	118
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4134329)								
EP071: C10 - C14 Fraction	----	50	µg/L	<50	400 µg/L	83.1	55.8	112
EP071: C15 - C28 Fraction	----	100	µg/L	<100	600 µg/L	77.4	71.6	113
EP071: C29 - C36 Fraction	----	50	µg/L	<50	400 µg/L	77.2	56.0	121
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4137793)								
EP080: C6 - C9 Fraction	----	20	µg/L	<20	260 µg/L	89.6	75.0	127
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4134329)								
EP071: >C10 - C16 Fraction	----	100	µg/L	<100	500 µg/L	71.7	57.9	119
EP071: >C16 - C34 Fraction	----	100	µg/L	<100	700 µg/L	85.2	62.5	110
EP071: >C34 - C40 Fraction	----	100	µg/L	<100	300 µg/L	90.7	61.5	121

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4137793)								
EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	310 µg/L	87.2	75.0	127
EP080: BTEXN (QCLot: 4137793)								
EP080: Benzene	71-43-2	1	µg/L	<1	10 µg/L	90.3	70.0	122
EP080: Toluene	108-88-3	2	µg/L	<2	10 µg/L	93.8	69.0	123
EP080: Ethylbenzene	100-41-4	2	µg/L	<2	10 µg/L	93.9	70.0	120
EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	10 µg/L	92.6	69.0	121
EP080: ortho-Xylene	95-47-6	2	µg/L	<2	10 µg/L	95.4	72.0	122
EP080: Naphthalene	91-20-3	5	µg/L	<5	10 µg/L	100	70.0	120

Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

Sub-Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	SpikeRecovery(%): MS	Acceptable Limits (%): Low	Acceptable Limits (%): High
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA (QCLot: 4133588)							
ES2201864-002	Anonymous	ED041G: Sulfate as SO4 - Turbidimetric	14808-79-8	10 mg/L	# Not Determined	70.0	130
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA (QCLot: 4133619)							
ES2201940-001	Anonymous	ED041G: Sulfate as SO4 - Turbidimetric	14808-79-8	10 mg/L	# Not Determined	70.0	130
ED045G: Chloride by Discrete Analyser (QCLot: 4133589)							
ES2201864-002	Anonymous	ED045G: Chloride	16887-00-6	50 mg/L	# Not Determined	70.0	130
ED045G: Chloride by Discrete Analyser (QCLot: 4133618)							
ES2201940-001	Anonymous	ED045G: Chloride	16887-00-6	50 mg/L	# Not Determined	70.0	130
EG020F: Dissolved Metals by ICP-MS (QCLot: 4138238)							
ES2201979-002	S54	EG020A-F: Arsenic	7440-38-2	1 mg/L	109	70.0	130
		EG020A-F: Cadmium	7440-43-9	0.25 mg/L	105	70.0	130
		EG020A-F: Chromium	7440-47-3	1 mg/L	102	70.0	130
		EG020A-F: Copper	7440-50-8	1 mg/L	100	70.0	130
		EG020A-F: Lead	7439-92-1	1 mg/L	97.0	70.0	130
		EG020A-F: Nickel	7440-02-0	1 mg/L	100	70.0	130
		EG020A-F: Zinc	7440-66-6	1 mg/L	105	70.0	130

Sub-Matrix: **WATER**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EG035F: Dissolved Mercury by FIMS (QCLot: 4138239)							
ES2201979-003	S02_d	EG035F: Mercury	7439-97-6	0.01 mg/L	86.9	70.0	130
EK055G: Ammonia as N by Discrete Analyser (QCLot: 4136962)							
ES2201979-001	S51	EK055G: Ammonia as N	7664-41-7	1 mg/L	# Not Determined	70.0	130
EK057G: Nitrite as N by Discrete Analyser (QCLot: 4133586)							
ES2201864-002	Anonymous	EK057G: Nitrite as N	14797-65-0	0.5 mg/L	105	70.0	130
EK057G: Nitrite as N by Discrete Analyser (QCLot: 4133617)							
ES2201940-001	Anonymous	EK057G: Nitrite as N	14797-65-0	0.5 mg/L	116	70.0	130
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QCLot: 4136963)							
ES2201979-001	S51	EK059G: Nitrite + Nitrate as N	----	0.5 mg/L	94.4	70.0	130
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser (QCLot: 4136959)							
ES2201979-002	S54	EK061G: Total Kjeldahl Nitrogen as N	----	100 mg/L	94.0	70.0	130
EK067G: Total Phosphorus as P by Discrete Analyser (QCLot: 4136958)							
ES2201979-002	S54	EK067G: Total Phosphorus as P	----	20 mg/L	97.9	70.0	130
EP074E: Halogenated Aliphatic Compounds (QCLot: 4137794)							
ES2201979-001	S51	EP074: 1.1-Dichloroethene	75-35-4	25 µg/L	106	70.0	130
		EP074: Trichloroethene	79-01-6	25 µg/L	96.2	70.0	130
EP074F: Halogenated Aromatic Compounds (QCLot: 4137794)							
ES2201979-001	S51	EP074: Chlorobenzene	108-90-7	25 µg/L	106	70.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4137793)							
ES2201979-001	S51	EP080: C6 - C9 Fraction	----	325 µg/L	86.3	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4137793)							
ES2201979-001	S51	EP080: C6 - C10 Fraction	C6_C10	375 µg/L	77.7	70.0	130
EP080: BTEXN (QCLot: 4137793)							
ES2201979-001	S51	EP080: Benzene	71-43-2	25 µg/L	88.3	70.0	130
		EP080: Toluene	108-88-3	25 µg/L	92.4	70.0	130
		EP080: Ethylbenzene	100-41-4	25 µg/L	93.0	70.0	130
		EP080: meta- & para-Xylene	108-38-3 106-42-3	25 µg/L	93.3	70.0	130
		EP080: ortho-Xylene	95-47-6	25 µg/L	96.8	70.0	130
		EP080: Naphthalene	91-20-3	25 µg/L	85.2	70.0	130

QA/QC Compliance Assessment to assist with Quality Review

Work Order	: **ES2201979**	Page	: 1 of 13
Client	: **ENVIRONMENTAL RESOURCES MANAGEMENT (ERM)**	Laboratory	: Environmental Division Sydney
Contact	: NICHOLAS GRBICH	Telephone	: +61-2-8784 8555
Project	: 0628507	Date Samples Received	: 20-Jan-2022
Site	: ----	Issue Date	: 31-Jan-2022
Sampler	: TAJ MONDON	No. of samples received	: 16
Order number	: ----	No. of samples analysed	: 14

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers : Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- **NO Method Blank value outliers occur.**
- **NO Duplicate outliers occur.**
- **Laboratory Control outliers exist - please see following pages for full details.**
- **Matrix Spike outliers exist - please see following pages for full details.**
- **Surrogate recovery outliers exist for all regular sample matrices - please see following pages for full details.**

Outliers : Analysis Holding Time Compliance

- **Analysis Holding Time Outliers exist - please see following pages for full details.**

Outliers : Frequency of Quality Control Samples

- **Quality Control Sample Frequency Outliers exist - please see following pages for full details.**

Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **WATER**

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Laboratory Control Spike (LCS) Recoveries							
EK067G: Total Phosphorus as P by Discrete Analyser	QC-MRG2-41369580	----	**Total Phosphorus as P**	----	109 %	72.0-108%	**Recovery greater than upper control limit**
Matrix Spike (MS) Recoveries							
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA	ES2201864--002	Anonymous	**Sulfate as SO4 - Turbidimetric**	14808-79-8	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA	ES2201940--001	Anonymous	**Sulfate as SO4 - Turbidimetric**	14808-79-8	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**
ED045G: Chloride by Discrete Analyser	ES2201864--002	Anonymous	**Chloride**	16887-00-6	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**
ED045G: Chloride by Discrete Analyser	ES2201940--001	Anonymous	**Chloride**	16887-00-6	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**
EK055G: Ammonia as N by Discrete Analyser	ES2201979--001	S51	**Ammonia as N**	7664-41-7	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**

Regular Sample Surrogates

Sub-Matrix: **WATER**

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Samples Submitted							
EP074S: VOC Surrogates	ES2201979-008	SMW_BH019	**4-Bromofluorobenzene**	460-00-4	80.0 %	80.8-124 %	**Recovery less than lower data quality objective**

Outliers : Analysis Holding Time Compliance

Matrix: **WATER**

Method / Container / Client Sample ID(s)	Extraction / Preparation			Analysis		
	Date extracted	Due for extraction	Days overdue	Date analysed	Due for analysis	Days overdue
EK057G: Nitrite as N by Discrete Analyser						
Clear Plastic Bottle - Natural						
S40_d, SMW_BH019, SMW_BH120, D01_220119	----	----	----	22-Jan-2022	21-Jan-2022	**1**
EP080/071: Total Petroleum Hydrocarbons						
Amber VOC Vial - Sulfuric Acid						
Trip blank	28-Jan-2022	27-Jan-2022	**1**	28-Jan-2022	27-Jan-2022	**1**
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions						

Matrix: **WATER**

Method / Container / Client Sample ID(s)	Extraction / Preparation: Date extracted	Extraction / Preparation: Due for extraction	Extraction / Preparation: Days overdue	Analysis: Date analysed	Analysis: Due for analysis	Analysis: Days overdue
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Analysis Holding Time						
Amber VOC Vial - Sulfuric Acid						
Trip blank	28-Jan-2022	27-Jan-2022	**1**	28-Jan-2022	27-Jan-2022	**1**
EP080: BTEXN						
Amber VOC Vial - Sulfuric Acid						
Trip Spike, Trip blank	28-Jan-2022	27-Jan-2022	**1**	28-Jan-2022	27-Jan-2022	**1**

Outliers : Frequency of Quality Control Samples

Matrix: **WATER**

Quality Control Sample Type / Method	Count: QC	Count: Regular	Rate (%): Actual	Rate (%): Expected	Quality Control Specification
Laboratory Duplicates (DUP)					
Ammonia as N by Discrete analyser	1	19	5.26	10.00	NEPM 2013 B3 & ALS QC Standard
Nitrite and Nitrate as N (NOx) by Discrete Analyser	1	17	5.88	10.00	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (GC/MS - SIM)	0	19	0.00	10.00	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	0	19	0.00	10.00	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)					
PAH/Phenols (GC/MS - SIM)	0	19	0.00	5.00	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	0	19	0.00	5.00	NEPM 2013 B3 & ALS QC Standard

Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for ***VOC in soils*** vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation: Date extracted	Extraction / Preparation: Due for extraction	Extraction / Preparation: Evaluation	Analysis: Date analysed	Analysis: Due for analysis	Analysis: Evaluation
EA015: Total Dissolved Solids dried at 180 ± 5 °C							
Clear Plastic Bottle - Natural (EA015H)							
S40_d, SMW_BH120, SMW_BH019, D01_220119	**19-Jan-2022**	**----**	----	----	**25-Jan-2022**	26-Jan-2022	✓
Clear Plastic Bottle - Natural (EA015H)							
S51, S54, S02_d, S06, S40_s, BUR-MW108	**20-Jan-2022**	**----**	----	----	**25-Jan-2022**	27-Jan-2022	✓

Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
ED037P: Alkalinity by PC Titrator							
Clear Plastic Bottle - Natural (ED037-P)							
S40_d, SMW_BH019, SMW_BH120, D01_220119	**19-Jan-2022**	**----**	----	----	**25-Jan-2022**	02-Feb-2022	✓
Clear Plastic Bottle - Natural (ED037-P)							
S51, S02_d, S40_s, S54, S06, BUR-MW108	**20-Jan-2022**	**----**	----	----	**25-Jan-2022**	03-Feb-2022	✓
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA							
Clear Plastic Bottle - Natural (ED041G)							
S40_d, SMW_BH019, SMW_BH120, D01_220119	**19-Jan-2022**	**----**	----	----	**22-Jan-2022**	16-Feb-2022	✓
Clear Plastic Bottle - Natural (ED041G)							
S51, S02_d, S40_s, S54, S06, BUR-MW108	**20-Jan-2022**	**----**	----	----	**22-Jan-2022**	17-Feb-2022	✓
ED045G: Chloride by Discrete Analyser							
Clear Plastic Bottle - Natural (ED045G)							
S40_d, SMW_BH019, SMW_BH120, D01_220119	**19-Jan-2022**	**----**	----	----	**22-Jan-2022**	16-Feb-2022	✓
Clear Plastic Bottle - Natural (ED045G)							
S51, S02_d, S40_s, S54, S06, BUR-MW108	**20-Jan-2022**	**----**	----	----	**22-Jan-2022**	17-Feb-2022	✓
ED093F: Dissolved Major Cations							
Clear Plastic Bottle - Nitric Acid; Filtered (ED093F)							
S40_d, SMW_BH019, SMW_BH120, D01_220119	**19-Jan-2022**	**----**	----	----	**25-Jan-2022**	16-Feb-2022	✓
Clear Plastic Bottle - Nitric Acid; Filtered (ED093F)							
S51, S02_d, S40_s, S54, S06, BUR-MW108	**20-Jan-2022**	**----**	----	----	**25-Jan-2022**	17-Feb-2022	✓
EG020F: Dissolved Metals by ICP-MS							
Clear Plastic Bottle - Nitric Acid; Filtered (EG020A-F)							
S40_d, SMW_BH019, RO1-220119, SMW_BH120, D01_220119,	**19-Jan-2022**	**----**	----	----	**25-Jan-2022**	18-Jul-2022	✓
Clear Plastic Bottle - Nitric Acid; Filtered (EG020A-F)							
S51, S02_d, S40_s, BUR-MW108, S54, S06, RO1-20-01-22,	**20-Jan-2022**	**----**	----	----	**25-Jan-2022**	19-Jul-2022	✓

Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EG035F: Dissolved Mercury by FIMS							
Clear Plastic Bottle - Nitric Acid; Filtered (EG035F)							
S40_d, SMW_BH019, RO1-220119, SMW_BH120, D01_220119,	**19-Jan-2022**	**----**	----	----	**27-Jan-2022**	16-Feb-2022	✓
Clear Plastic Bottle - Nitric Acid; Filtered (EG035F)							
S51, S02_d, S40_s, BUR-MW108, S54, S06, RO1-20-01-22,	**20-Jan-2022**	**----**	----	----	**27-Jan-2022**	17-Feb-2022	✓
EK055G: Ammonia as N by Discrete Analyser							
Clear Plastic Bottle - Sulfuric Acid (EK055G)							
S40_d, SMW_BH019, RO1-220119, SMW_BH120, D01_220119,	**19-Jan-2022**	**----**	----	----	**25-Jan-2022**	16-Feb-2022	✓
Clear Plastic Bottle - Sulfuric Acid (EK055G)							
S51, S02_d, S40_s, BUR-MW108, S54, S06, RO1-20-01-22,	**20-Jan-2022**	**----**	----	----	**25-Jan-2022**	17-Feb-2022	✓
EK057G: Nitrite as N by Discrete Analyser							
Clear Plastic Bottle - Natural (EK057G)							
S40_d, SMW_BH019, SMW_BH120, D01_220119	**19-Jan-2022**	**----**	----	----	**22-Jan-2022**	21-Jan-2022	×
Clear Plastic Bottle - Natural (EK057G)							
S51, S02_d, S40_s, S54, S06, BUR-MW108	**20-Jan-2022**	**----**	----	----	**22-Jan-2022**	22-Jan-2022	✓
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser							
Clear Plastic Bottle - Sulfuric Acid (EK059G)							
S40_d, SMW_BH019, RO1-220119, SMW_BH120, D01_220119,	**19-Jan-2022**	**----**	----	----	**25-Jan-2022**	16-Feb-2022	✓
Clear Plastic Bottle - Sulfuric Acid (EK059G)							
S51, S02_d, S40_s, BUR-MW108, S54, S06, RO1-20-01-22,	**20-Jan-2022**	**----**	----	----	**25-Jan-2022**	17-Feb-2022	✓

Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser							
Clear Plastic Bottle - Sulfuric Acid (EK061G)							
S40_d, SMW_BH120, SMW_BH019, D01_220119, RO1-220119	**19-Jan-2022**	**25-Jan-2022**	16-Feb-2022	✓	**25-Jan-2022**	16-Feb-2022	✓
Clear Plastic Bottle - Sulfuric Acid (EK061G)							
S51, S54, S02_d, S06, S40_s, RO1-20-01-22, BUR-MW108	**20-Jan-2022**	**25-Jan-2022**	17-Feb-2022	✓	**25-Jan-2022**	17-Feb-2022	✓
EK067G: Total Phosphorus as P by Discrete Analyser							
Clear Plastic Bottle - Sulfuric Acid (EK067G)							
S40_d, SMW_BH120, SMW_BH019, D01_220119, RO1-220119	**19-Jan-2022**	**25-Jan-2022**	16-Feb-2022	✓	**25-Jan-2022**	16-Feb-2022	✓
Clear Plastic Bottle - Sulfuric Acid (EK067G)							
S51, S54, S02_d, S06, S40_s, RO1-20-01-22, BUR-MW108	**20-Jan-2022**	**25-Jan-2022**	17-Feb-2022	✓	**25-Jan-2022**	17-Feb-2022	✓
EP074A: Monocyclic Aromatic Hydrocarbons							
Amber VOC Vial - Sulfuric Acid (EP074)							
S40_d, SMW_BH120, SMW_BH019, D01_220119, RO1-220119	**19-Jan-2022**	**28-Jan-2022**	02-Feb-2022	✓	**28-Jan-2022**	02-Feb-2022	✓
Amber VOC Vial - Sulfuric Acid (EP074)							
S51, S54, S02_d, S06, S40_s, RO1-20-01-22, BUR-MW108	**20-Jan-2022**	**28-Jan-2022**	03-Feb-2022	✓	**28-Jan-2022**	03-Feb-2022	✓
EP074B: Oxygenated Compounds							
Amber VOC Vial - Sulfuric Acid (EP074)							
S40_d, SMW_BH120, SMW_BH019, D01_220119, RO1-220119	**19-Jan-2022**	**28-Jan-2022**	02-Feb-2022	✓	**28-Jan-2022**	02-Feb-2022	✓
Amber VOC Vial - Sulfuric Acid (EP074)							
S51, S54, S02_d, S06, S40_s, RO1-20-01-22, BUR-MW108	**20-Jan-2022**	**28-Jan-2022**	03-Feb-2022	✓	**28-Jan-2022**	03-Feb-2022	✓

Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP074C: Sulfonated Compounds							
Amber VOC Vial - Sulfuric Acid (EP074) S40_d, SMW_BH120, SMW_BH019, D01_220119, RO1-220119	**19-Jan-2022**	**28-Jan-2022**	02-Feb-2022	✓	**28-Jan-2022**	02-Feb-2022	✓
Amber VOC Vial - Sulfuric Acid (EP074) S51, S54, S02_d, S06, S40_s, RO1-20-01-22, BUR-MW108	**20-Jan-2022**	**28-Jan-2022**	03-Feb-2022	✓	**28-Jan-2022**	03-Feb-2022	✓
EP074D: Fumigants							
Amber VOC Vial - Sulfuric Acid (EP074) S40_d, SMW_BH120, SMW_BH019, D01_220119, RO1-220119	**19-Jan-2022**	**28-Jan-2022**	02-Feb-2022	✓	**28-Jan-2022**	02-Feb-2022	✓
Amber VOC Vial - Sulfuric Acid (EP074) S51, S54, S02_d, S06, S40_s, RO1-20-01-22, BUR-MW108	**20-Jan-2022**	**28-Jan-2022**	03-Feb-2022	✓	**28-Jan-2022**	03-Feb-2022	✓
EP074E: Halogenated Aliphatic Compounds							
Amber VOC Vial - Sulfuric Acid (EP074) S40_d, SMW_BH120, SMW_BH019, D01_220119, RO1-220119	**19-Jan-2022**	**28-Jan-2022**	02-Feb-2022	✓	**28-Jan-2022**	02-Feb-2022	✓
Amber VOC Vial - Sulfuric Acid (EP074) S51, S54, S02_d, S06, S40_s, RO1-20-01-22, BUR-MW108	**20-Jan-2022**	**28-Jan-2022**	03-Feb-2022	✓	**28-Jan-2022**	03-Feb-2022	✓
EP074F: Halogenated Aromatic Compounds							
Amber VOC Vial - Sulfuric Acid (EP074) S40_d, SMW_BH120, SMW_BH019, D01_220119, RO1-220119	**19-Jan-2022**	**28-Jan-2022**	02-Feb-2022	✓	**28-Jan-2022**	02-Feb-2022	✓
Amber VOC Vial - Sulfuric Acid (EP074) S51, S54, S02_d, S06, S40_s, RO1-20-01-22, BUR-MW108	**20-Jan-2022**	**28-Jan-2022**	03-Feb-2022	✓	**28-Jan-2022**	03-Feb-2022	✓

Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP074G: Trihalomethanes							
Amber VOC Vial - Sulfuric Acid (EP074) S40_d, SMW_BH120, SMW_BH019, D01_220119, RO1-220119	**19-Jan-2022**	**28-Jan-2022**	02-Feb-2022	✓	**28-Jan-2022**	02-Feb-2022	✓
Amber VOC Vial - Sulfuric Acid (EP074) S51, S54, S02_d, S06, S40_s, RO1-20-01-22, BUR-MW108	**20-Jan-2022**	**28-Jan-2022**	03-Feb-2022	✓	**28-Jan-2022**	03-Feb-2022	✓
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons							
Amber Glass Bottle - Unpreserved (EP075(SIM)) S40_d, SMW_BH120, SMW_BH019, D01_220119, RO1-220119	**19-Jan-2022**	**25-Jan-2022**	26-Jan-2022	✓	**27-Jan-2022**	06-Mar-2022	✓
Amber Glass Bottle - Unpreserved (EP075(SIM)) S51, S54, S02_d, S06, S40_s, RO1-20-01-22, BUR-MW108	**20-Jan-2022**	**25-Jan-2022**	27-Jan-2022	✓	**27-Jan-2022**	06-Mar-2022	✓
EP080/071: Total Petroleum Hydrocarbons							
Amber Glass Bottle - Unpreserved (EP071) S40_d, SMW_BH120, SMW_BH019, D01_220119, RO1-220119	**19-Jan-2022**	**25-Jan-2022**	26-Jan-2022	✓	**27-Jan-2022**	06-Mar-2022	✓
Amber Glass Bottle - Unpreserved (EP071) S51, S54, S02_d, S06, S40_s, RO1-20-01-22, BUR-MW108	**20-Jan-2022**	**25-Jan-2022**	27-Jan-2022	✓	**27-Jan-2022**	06-Mar-2022	✓
Amber VOC Vial - Sulfuric Acid (EP080) Trip blank	**13-Jan-2022**	**28-Jan-2022**	27-Jan-2022	×	**28-Jan-2022**	27-Jan-2022	×
Amber VOC Vial - Sulfuric Acid (EP080) S40_d, SMW_BH120, SMW_BH019, D01_220119, RO1-220119	**19-Jan-2022**	**28-Jan-2022**	02-Feb-2022	✓	**28-Jan-2022**	02-Feb-2022	✓
Amber VOC Vial - Sulfuric Acid (EP080) S51, S54, S02_d, S06, S40_s, RO1-20-01-22, BUR-MW108	**20-Jan-2022**	**28-Jan-2022**	03-Feb-2022	✓	**28-Jan-2022**	03-Feb-2022	✓

Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions							
Amber Glass Bottle - Unpreserved (EP071) S40_d, SMW_BH120, SMW_BH019, D01_220119, RO1-220119	**19-Jan-2022**	**25-Jan-2022**	26-Jan-2022	✓	**27-Jan-2022**	06-Mar-2022	✓
Amber Glass Bottle - Unpreserved (EP071) S51, S54, S02_d, S06, S40_s, RO1-20-01-22, BUR-MW108	**20-Jan-2022**	**25-Jan-2022**	27-Jan-2022	✓	**27-Jan-2022**	06-Mar-2022	✓
Amber VOC Vial - Sulfuric Acid (EP080) Trip blank	**13-Jan-2022**	**28-Jan-2022**	27-Jan-2022	×	**28-Jan-2022**	27-Jan-2022	×
Amber VOC Vial - Sulfuric Acid (EP080) S40_d, SMW_BH120, SMW_BH019, D01_220119, RO1-220119	**19-Jan-2022**	**28-Jan-2022**	02-Feb-2022	✓	**28-Jan-2022**	02-Feb-2022	✓
Amber VOC Vial - Sulfuric Acid (EP080) S51, S54, S02_d, S06, S40_s, RO1-20-01-22, BUR-MW108	**20-Jan-2022**	**28-Jan-2022**	03-Feb-2022	✓	**28-Jan-2022**	03-Feb-2022	✓
EP080: BTEXN							
Amber VOC Vial - Sulfuric Acid (EP080) Trip Spike, Trip blank	**13-Jan-2022**	**28-Jan-2022**	27-Jan-2022	×	**28-Jan-2022**	27-Jan-2022	×
Amber VOC Vial - Sulfuric Acid (EP080) S40_d, SMW_BH120, SMW_BH019, D01_220119, RO1-220119	**19-Jan-2022**	**28-Jan-2022**	02-Feb-2022	✓	**28-Jan-2022**	02-Feb-2022	✓
Amber VOC Vial - Sulfuric Acid (EP080) S51, S54, S02_d, S06, S40_s, RO1-20-01-22, BUR-MW108	**20-Jan-2022**	**28-Jan-2022**	03-Feb-2022	✓	**28-Jan-2022**	03-Feb-2022	✓

Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(were) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

Matrix: **WATER**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Laboratory Duplicates (DUP)							
Alkalinity by PC Titrator	ED037-P	2	17	**11.76**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Ammonia as N by Discrete analyser	EK055G	1	19	**5.26**	**10.00**	×	NEPM 2013 B3 & ALS QC Standard
Chloride by Discrete Analyser	ED045G	4	39	**10.26**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Mercury by FIMS	EG035F	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Metals by ICP-MS - Suite A	EG020A-F	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Major Cations - Dissolved	ED093F	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	1	17	**5.88**	**10.00**	×	NEPM 2013 B3 & ALS QC Standard
Nitrite as N by Discrete Analyser	EK057G	4	30	**13.33**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	0	19	**0.00**	**10.00**	×	NEPM 2013 B3 & ALS QC Standard
Sulfate (Turbidimetric) as SO4 2- by Discrete Analyser	ED041G	4	39	**10.26**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Dissolved Solids (High Level)	EA015H	4	31	**12.90**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Kjeldahl Nitrogen as N By Discrete Analyser	EK061G	2	17	**11.76**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Phosphorus as P By Discrete Analyser	EK067G	2	19	**10.53**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	0	19	**0.00**	**10.00**	×	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds	EP074	2	18	**11.11**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Alkalinity by PC Titrator	ED037-P	2	17	**11.76**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Ammonia as N by Discrete analyser	EK055G	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Chloride by Discrete Analyser	ED045G	4	39	**10.26**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Mercury by FIMS	EG035F	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Metals by ICP-MS - Suite A	EG020A-F	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Major Cations - Dissolved	ED093F	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	1	17	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite as N by Discrete Analyser	EK057G	2	30	**6.67**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Sulfate (Turbidimetric) as SO4 2- by Discrete Analyser	ED041G	4	39	**10.26**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Dissolved Solids (High Level)	EA015H	6	31	**19.35**	**15.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Kjeldahl Nitrogen as N By Discrete Analyser	EK061G	3	17	**17.65**	**15.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Phosphorus as P By Discrete Analyser	EK067G	3	19	**15.79**	**15.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds	EP074	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Ammonia as N by Discrete analyser	EK055G	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Chloride by Discrete Analyser	ED045G	2	39	**5.13**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard

Matrix: **WATER**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Method Blanks (MB) - Continued							
Dissolved Mercury by FIMS	EG035F	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Metals by ICP-MS - Suite A	EG020A-F	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Major Cations - Dissolved	ED093F	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	1	17	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite as N by Discrete Analyser	EK057G	2	30	**6.67**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Sulfate (Turbidimetric) as SO4 2- by Discrete Analyser	ED041G	2	39	**5.13**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Dissolved Solids (High Level)	EA015H	2	31	**6.45**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Kjeldahl Nitrogen as N By Discrete Analyser	EK061G	1	17	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Phosphorus as P By Discrete Analyser	EK067G	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds	EP074	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Ammonia as N by Discrete analyser	EK055G	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Chloride by Discrete Analyser	ED045G	2	39	**5.13**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Mercury by FIMS	EG035F	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Metals by ICP-MS - Suite A	EG020A-F	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	1	17	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite as N by Discrete Analyser	EK057G	2	30	**6.67**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	0	19	**0.00**	**5.00**	×	NEPM 2013 B3 & ALS QC Standard
Sulfate (Turbidimetric) as SO4 2- by Discrete Analyser	ED041G	2	39	**5.13**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Kjeldahl Nitrogen as N By Discrete Analyser	EK061G	1	17	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Phosphorus as P By Discrete Analyser	EK067G	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	0	19	**0.00**	**5.00**	×	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds	EP074	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard

Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
Total Dissolved Solids (High Level)	EA015H	WATER	In house: Referenced to APHA 2540C. A gravimetric procedure that determines the amount of `filterable` residue in an aqueous sample. A well-mixed sample is filtered through a glass fibre filter (1.2um). The filtrate is evaporated to dryness and dried to constant weight at 180+/-5C. This method is compliant with NEPM Schedule B(3)
Alkalinity by PC Titrator	ED037-P	WATER	In house: Referenced to APHA 2320 B This procedure determines alkalinity by automated measurement (e.g. PC Titrate) on a settled supernatant aliquot of the sample using pH 4.5 for indicating the total alkalinity end-point. This method is compliant with NEPM Schedule B(3)
Sulfate (Turbidimetric) as SO4 2- by Discrete Analyser	ED041G	WATER	In house: Referenced to APHA 4500-SO4. Dissolved sulfate is determined in a 0.45um filtered sample. Sulfate ions are converted to a barium sulfate suspension in an acetic acid medium with barium chloride. Light absorbance of the BaSO4 suspension is measured by a photometer and the SO4-2 concentration is determined by comparison of the reading with a standard curve. This method is compliant with NEPM Schedule B(3)
Chloride by Discrete Analyser	ED045G	WATER	In house: Referenced to APHA 4500 Cl - G.The thiocyanate ion is liberated from mercuric thiocyanate through sequestration of mercury by the chloride ion to form non-ionised mercuric chloride.in the presence of ferric ions the librated thiocynate forms highly-coloured ferric thiocynate which is measured at 480 nm APHA seal method 2 017-1-L
Major Cations - Dissolved	ED093F	WATER	In house: Referenced to APHA 3120 and 3125; USEPA SW 846 - 6010 and 6020; Cations are determined by either ICP-AES or ICP-MS techniques. This method is compliant with NEPM Schedule B(3) Sodium Adsorption Ratio is calculated from Ca, Mg and Na which determined by ALS in house method QWI-EN/ED093F. This method is compliant with NEPM Schedule B(3) Hardness parameters are calculated based on APHA 2340 B. This method is compliant with NEPM Schedule B(3)
Dissolved Metals by ICP-MS - Suite A	EG020A-F	WATER	In house: Referenced to APHA 3125; USEPA SW846 - 6020, ALS QWI-EN/EG020. Samples are 0.45µm filtered prior to analysis. The ICPMS technique utilizes a highly efficient argon plasma to ionize selected elements. Ions are then passed into a high vacuum mass spectrometer, which separates the analytes based on their distinct mass to charge ratios prior to their measurement by a discrete dynode ion detector.
Dissolved Mercury by FIMS	EG035F	WATER	In house: Referenced to APHA 3112 Hg - B (Flow-injection (SnCl2)(Cold Vapour generation) AAS) Samples are 0.45µm filtered prior to analysis. FIM-AAS is an automated flameless atomic absorption technique. A bromate/bromide reagent is used to oxidise any organic mercury compounds in the filtered sample. The ionic mercury is reduced online to atomic mercury vapour by SnCl2 which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM Schedule B(3).
Ammonia as N by Discrete analyser	EK055G	WATER	In house: Referenced to APHA 4500-NH3 G Ammonia is determined by direct colorimetry by Discrete Analyser. This method is compliant with NEPM Schedule B(3)
Nitrite as N by Discrete Analyser	EK057G	WATER	In house: Referenced to APHA 4500-NO2- B. Nitrite is determined by direct colourimetry by Discrete Analyser. This method is compliant with NEPM Schedule B(3)
Nitrate as N by Discrete Analyser	EK058G	WATER	In house: Referenced to APHA 4500-NO3- F. Nitrate is reduced to nitrite by way of a chemical reduction followed by quantification by Discrete Analyser. Nitrite is determined seperately by direct colourimetry and result for Nitrate calculated as the difference between the two results. This method is compliant with NEPM Schedule B(3)

Analytical Methods	Method	Matrix	Method Descriptions
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	WATER	In house: Referenced to APHA 4500-NO3- F. Combined oxidised Nitrogen (NO2+NO3) is determined by Chemical Reduction and direct colourimetry by Discrete Analyser. This method is compliant with NEPM Schedule B(3)
Total Kjeldahl Nitrogen as N By Discrete Analyser	EK061G	WATER	In house: Referenced to APHA 4500-Norg D (In house). An aliquot of sample is digested using a high temperature Kjeldahl digestion to convert nitrogenous compounds to ammonia. Ammonia is determined colorimetrically by discrete analyser. This method is compliant with NEPM Schedule B(3)
Total Nitrogen as N (TKN + Nox) By Discrete Analyser	EK062G	WATER	In house: Referenced to APHA 4500-Norg / 4500-NO3-. This method is compliant with NEPM Schedule B(3)
Total Phosphorus as P By Discrete Analyser	EK067G	WATER	In house: Referenced to APHA 4500-P H, Jirka et al, Zhang et al. This procedure involves sulphuric acid digestion of a sample aliquot to break phosphorus down to orthophosphate. The orthophosphate reacts with ammonium molybdate and antimony potassium tartrate to form a complex which is then reduced and its concentration measured at 880nm using discrete analyser. This method is compliant with NEPM Schedule B(3)
Ionic Balance by PCT DA and Turbi SO4 DA	* EN055 - PG	WATER	In house: Referenced to APHA 1030F. This method is compliant with NEPM Schedule B(3)
TRH - Semivolatile Fraction	EP071	WATER	In house: Referenced to USEPA SW 846 - 8015 The sample extract is analysed by Capillary GC/FID and quantification is by comparison against an established 5 point calibration curve of n-Alkane standards. This method is compliant with the QC requirements of NEPM Schedule B(3)
Volatile Organic Compounds	EP074	WATER	In house: Referenced to USEPA SW 846 - 8260 Water samples are directly purged prior to analysis by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3)
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	WATER	In house: Referenced to USEPA SW 846 - 8270 Sample extracts are analysed by Capillary GC/MS in SIM Mode and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3)
TRH Volatiles/BTEX	EP080	WATER	In house: Referenced to USEPA SW 846 - 8260 Water samples are directly purged prior to analysis by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. Alternatively, a sample is equilibrated in a headspace vial and a portion of the headspace determined by GCMS analysis. This method is compliant with the QC requirements of NEPM Schedule B(3)

Preparation Methods	Method	Matrix	Method Descriptions
TKN/TP Digestion	EK061/EK067	WATER	In house: Referenced to APHA 4500 Norg - D; APHA 4500 P - H. This method is compliant with NEPM Schedule B(3)
Separatory Funnel Extraction of Liquids	ORG14	WATER	In house: Referenced to USEPA SW 846 - 3510 100 mL to 1L of sample is transferred to a separatory funnel and serially extracted three times using DCM for each extract. The resultant extracts are combined, dehydrated and concentrated for analysis. This method is compliant with NEPM Schedule B(3) . ALS default excludes sediment which may be resident in the container.
Volatiles Water Preparation	ORG16-W	WATER	A 5 mL aliquot or 5 mL of a diluted sample is added to a 40 mL VOC vial for purging.

CHAIN OF CUSTODY

ALS Laboratory: please tick →

ADELAIDE 21 Burma Road Pooraka SA 5095 Ph: 08 8359 0690 E: adelaide@alsglobal.com
BRISBANE 32 Shand Street Stafford QLD 4053 Ph: 07 3243 7222 E: samples.brisbane@alsglobal.com
GLADSTONE 46 Callemondah Drive Clinton QLD 4680 Ph: 07 7471 5600 E: gladstone@alsglobal.com
MACKAY 78 Harbour Road Mackay QLD 4740 Ph: 07 4944 0177 E: mackay@alsglobal.com
MELBOURNE 2-4 Westall Road Springvale VIC 3171 Ph: 03 8549 9600 E: samples.melbourne@alsglobal.com
MUDGEE 27 Sydney Road Mudgee NSW 2850 Ph: 02 6372 6735 E: mudgee.mail@alsglobal.com
NEWCASTLE 5/585 Maitland Rd Mayfield West NSW 2304 Ph: 02 4014 2500 E: samples.newcastle@alsglobal.com
NOWRA 4/13 Geary Place North Nowra NSW 2541 Ph: 024423 2063 E: nowra@alsglobal.com
PERTH 10 Hod Way Malaga WA 6090 Ph: 08 9209 7655 E: samples.perth@alsglobal.com
SYDNEY 277-289 Woodpark Road Smithfield NSW 2164 Ph: 02 8784 8555 E: samples.sydney@alsglobal.com
TOWNSVILLE 14-15 Desma Court Bohle QLD 4818 Ph: 07 4796 0600 E: townsville.environmental@alsglobal.com
WOLLONGONG 99 Kenny Street Wollongong NSW 2500 Ph: 02 4225 3125 E: portkembla@alsglobal.com

CLIENT: ERM	TURNAROUND REQUIREMENTS: ☑ Standard TAT (List due date):	FOR LABORATORY USE ONLY (Circle)	
OFFICE: Sydney	(Standard TAT may be longer for some tests e.g. Ultra Trace Organics) ☐ Non Standard or urgent TAT (List due date):	Custody Seal Intact?	Yes / No / N/A
PROJECT: 0628507	ALS QUOTE NO.:	Free ice / frozen ice bricks present upon receipt?	Yes / No / N/A
ORDER NUMBER:	COC SEQUENCE NUMBER (Circle) COC: 1 2 3 4 5 6 7 OF: 1 2 3 4 5 6 7	Random Sample Temperature on Receipt:	°C
PROJECT MANAGER: Dosa Nicholas Gubich	CONTACT PH: 0415 833 925	Other comment:	6.2
SAMPLER: Taj Monsor	SAMPLER MOBILE: 0467 295 082	RELINQUISHED BY: Taj Monsor	RECEIVED BY: [illegible]
COC emailed to ALS? (YES / (NO)	EDD FORMAT (or default):	DATE/TIME: 20/01/22	DATE/TIME: 20/1/22 1900
Email Reports to (will default to PM if no other addresses are listed):		RELINQUISHED BY:	RECEIVED BY:
Email Invoice to (will default to PM if no other addresses are listed):		DATE/TIME:	DATE/TIME:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE	SAMPLE DETAILS MATRIX: SOLID (S) WATER (W)			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required)							Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL CONTAINERS	TRH & BTEXN	PAHs	VOCs	Heavy metals plus iron	Ammonia, Nitrate, Total nitrogen & Total phosphorus	Major anions & calcium	Fluoride & TDS	
1	S51	20-01-22	W			X	X	X	X	X	X	X	
2	S54												
3	S02-D												
4	S06												
5	S40-S												
6	S40-D												
7	SMW_BH120	19-01-22											
8	SMW_BH019												
9	D01-220119												
10	T01-220119												
11	R01-220119												minus nitrate analysis
12	R01-220120	20-01-22											minus nitrate analysis
				TOTAL									

Environmental Division Sydney
Work Order Reference
ES2201979

Telephone : +61-2-8784 8555

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide/Cd Preserved; S = Sodium Hydroxide Preserved Plastic; AG = Amber Glass Unpreserved; AP - Airfreight Unpreserved Plastic
V = VOA Vial HCl Preserved; VB = VOA Vial Sodium Bisulphate Preserved; VS = VOA Vial Sulfuric Preserved; AV = Airfreight Unpreserved Vial SG = Sulfuric Preserved Amber Glass; H = HCl preserved Plastic; HS = HCl preserved Speciation bottle; SP = Sulfuric Preserved Plastic; F = Formaldehyde Preserved Glass; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; ASS = Plastic Bag for Acid Sulphate Soils; B = Unpreserved Bag.

CHAIN OF CUSTODY

ALS Laboratory; please tick →

ADELAIDE 21 Burma Road Pooraka SA 5095 Ph: 08 8359 0890 E: adelaide@alsglobal.com
BRISBANE 32 Shand Street Stafford QLD 4053 Ph: 07 3243 7222 E: samples.brisbane@alsglobal.com
GLADSTONE 46 Callemondah Drive Clinton QLD 4680 Ph: 07 7471 5600 E: gladstone@alsglobal.com
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MUDGEE 27 Sydney Road Mudgee NSW 2850 Ph: 02 6372 6735 E: mudgee.mail@alsglobal.com
NEWCASTLE 5/585 Maitland Rd Mayfield West NSW 2304 Ph: 02 4014 2500 E: samples.newcastle@alsglobal.com
NOWRA 4/12 Geary Place North Nowra NSW 2541 Ph: 02 4423 2063 E: nowra@alsglobal.com
PERTH 10 Hod Way Malaga WA 6090 Ph: 08 9209 7655 E: samples.perth@alsglobal.com
SYDNEY 277-289 Woodpark Road Smithfield NSW 2164 Ph: 02 8784 8555 E: samples.sydney@alsglobal.com
TOWNSVILLE 14-15 Desma Court Bohle QLD 4818 Ph: 07 4796 0600 E: townsville.environmental@alsglobal.com
WOLLONGONG 99 Kenny Street Wollongong NSW 2500 Ph: 02 4225 3125 E: portkembla@alsglobal.com

CLIENT: ERM	TURNAROUND REQUIREMENTS : ☑ Standard TAT (List due date):	FOR LABORATORY USE ONLY (Circle)	
OFFICE: Sydney	(Standard TAT may be longer for some tests e.g. Ultra Trace Organics) ☐ Non Standard or urgent TAT (List due date):	Custody Seal Intact?	Yes No N/A
PROJECT: 0628507	ALS QUOTE NO.:	Free ice / frozen ice bricks present upon receipt?	Yes No N/A
ORDER NUMBER:	COC SEQUENCE NUMBER (Circle) COC: 1 2 3 4 5 6 7 OF: 1 2 3 4 5 6 7	Random Sample Temperature on Receipt:	6.2 °C
PROJECT MANAGER: Nicholas Garrick	CONTACT PH: 0415 833 922	Other comment:	
SAMPLER: Tai, Marcus	SAMPLER MOBILE: 0467 295 882	RELINQUISHED BY: T. Marcus	RECEIVED BY: Scott Miles ALS
COC emailed to ALS? (YES / NO)	EDD FORMAT (or default):	DATE/TIME: 20/01/22	DATE/TIME: 20/1/22 1900
Email Reports to (will default to PM if no other addresses are listed):		RELINQUISHED BY:	RECEIVED BY:
Email Invoice to (will default to PM if no other addresses are listed):		DATE/TIME:	DATE/TIME:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE	SAMPLE DETAILS MATRIX: SOLID (S) WATER (W)			CONTAINER INFORMATION		ANALYSIS REQUIRED Including SUITES (NB. Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required)								Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL CONTAINERS	TRH + BTEX + N	PAHs	VOC's	Heavy metals plus iron	Ammonia + nitrate + nitrite + total phosphorus	TDS	Major anions & cations		Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc.
13	Trip spike x 2	20-01-22	W			X	X	X	X	X	X	X		
14	Trip blank x2					X	X	X	X	X	X	X		
15	BUR-MW108					X	X	X	X	X	X	X		
16	BUR-BH121					X	X	X	X	X	X	X		
	[redacted]					X	X	X	X	X	X	X		
				TOTAL										

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide/Cd Preserved; S = Sodium Hydroxide Preserved Plastic; AG = Amber Glass Unpreserved; AP - Airfreight Unpreserved Plastic
V = VOA Vial HCl Preserved; VB = VOA Vial Sodium Bisulphate Preserved; VS = VOA Vial Sulfuric Preserved; AV = Airfreight Unpreserved Vial SG = Sulfuric Preserved Amber Glass; H = HCl preserved Plastic; HS = HCl preserved Speciation bottle; SP = Sulfuric Preserved Plastic; F = Formaldehyde Preserved Glass;
Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; ASS = Plastic Bag for Acid Sulphate Soils; B = Unpreserved Bag.

CERTIFICATE OF ANALYSIS

Work Order	: **ES2202047**	Page	: 1 of 23
Client	: **ENVIRONMENTAL RESOURCES MANAGEMENT (ERM)**	Laboratory	: Environmental Division Sydney
Contact	: NICHOLAS GRBICH	Contact	: Customer Services ES
Address	: LEVEL 15 309 KENT STREET SYDNEY NSW AUSTRALIA 2000	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: ----	Telephone	: +61-2-8784 8555
Project	: 0628507	Date Samples Received	: 21-Jan-2022 13:15
Order number	: ----	Date Analysis Commenced	: 24-Jan-2022
C-O-C number	: ----	Issue Date	: 01-Feb-2022 15:29
Sampler	: TAJ MONDON		
Site	: ----		
Quote number	: EN/114		
No. of samples received	: 24		
No. of samples analysed	: 23		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Ankit Joshi	Inorganic Chemist	Sydney Inorganics, Smithfield, NSW
Edwandy Fadjar	Organic Coordinator	Sydney Organics, Smithfield, NSW
Franco Lentini	LCMS Coordinator	Sydney Organics, Smithfield, NSW
Ivan Taylor	Analyst	Sydney Inorganics, Smithfield, NSW

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- EP075 (SIM): Where reported, Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) per the NEPM (2013) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a.h)anthracene (1.0), Benzo(g.h.i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero.
- EP075: Where reported, Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) per the NEPM (2013) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a.h)anthracene (1.0), Benzo(g.h.i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero.
- EP231X - Per- and Polyfluoroalkyl Substances (PFAS): Samples received in 20ml or 125ml bottles have been tested in accordance with the QSM5.3 compliant, NATA accredited method. 60mL or 250mL bottles have been tested to the legacy QSM 5.1 aligned, NATA accredited method.
- EP080: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EP074: Where reported, Total Trihalomethanes is the sum of the reported concentrations of all Trihalomethanes at or above the LOR.
- EP074: Where reported, Total Trimethylbenzenes is the sum of the reported concentrations of 1.2.3-Trimethylbenzene, 1.2.4-Trimethylbenzene and 1.3.5-Trimethylbenzene at or above the LOR.
- EP075(SIM): Where reported, Total Cresol is the sum of the reported concentrations of 2-Methylphenol and 3- & 4-Methylphenol at or above the LOR.
- EP231X: Positive result for various analytes on sample ES2202047_001,004-005,007,009-011,017,019,021 has been confirmed by re-extraction and re-analysis.
- EG035: Poor matrix spike recovery was obtained for Mercury on sample ES2201942 # 1. Confirmed by re-analysis.
- EK059G, EK057G: NOx and Nitrite results for sample no: 12 confirmed via re-analysis.
- EP075: Poor surrogate recovery due to sample heterogeneity. Confirmed by re-extraction and re-analysis.
- EP075(SIM): Particular sample phenolic surrogate not determined due to sample matrix interferences.
- EP080: Sample TRIP SPIKE contains volatile compounds spiked into the sample containers prior to dispatch from the laboratory. BTEXN compounds spiked at 20 ug/L.
- EP075: Where reported, 'Sum of PAH' is the sum of the USEPA 16 priority PAHs
- Sodium Adsorption Ratio (where reported): Where results for Na, Ca or Mg are <LOR, a concentration at half the reported LOR is incorporated into the SAR calculation. This represents a conservative approach for Na relative to the assumption that <LOR = zero concentration and a conservative approach for Ca & Mg relative to the assumption that <LOR is equivalent to the LOR concentration.
- EP231: Stable isotope enriched internal standards are added to samples prior to extraction. Target compounds have a direct analogous internal standard with the exception of PFPeS, PFHpA, PFDS, PFTrDA and 10:2 FTS. These compounds use an internal standard that is chemically related and has a retention time close to that of the target compound. The DQO for internal standard response is 50-150% of that established at initial calibration. PFOS is quantified using a certified, traceable standard consisting of linear and branched PFOS isomers. These practices are in line with recommendations in the National Environmental Management Plan for PFAS (Australian HEPA) and also conform to QSM 5.3 (US DoD) requirements.

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	SMW_BH051	S51	S54	S02_d	S06
			Sampling date / time	18-Jan-2022 00:00	20-Jan-2022 00:00	20-Jan-2022 00:00	20-Jan-2022 00:00	20-Jan-2022 00:00
Compound	CAS Number	LOR	Unit	ES2202047-001	ES2202047-003	ES2202047-004	ES2202047-005	ES2202047-006
				Result	Result	Result	Result	Result
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	<0.01	**0.02**	**0.04**
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	**0.07**
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	**0.09**
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	**0.06**
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	SMW_BH051	S51	S54	S02_d	S06
				Sampling date / time	18-Jan-2022 00:00	20-Jan-2022 00:00	20-Jan-2022 00:00	20-Jan-2022 00:00	20-Jan-2022 00:00
Compound	CAS Number	LOR	Unit		ES2202047-001	ES2202047-003	ES2202047-004	ES2202047-005	ES2202047-006
					Result	Result	Result	Result	Result
EP231C: Perfluoroalkyl Sulfonamides - Continued									
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L		**0.13**	<0.05	**0.12**	<0.05	**0.07**
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05
EP231P: PFAS Sums									
Sum of PFAS	----	0.01	µg/L		**0.13**	<0.01	**0.12**	**0.02**	**0.33**
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L		<0.01	<0.01	<0.01	**0.02**	**0.11**
Sum of PFAS (WA DER List)	----	0.01	µg/L		**0.13**	<0.01	**0.12**	**0.02**	**0.33**
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.02	%		**114**	**113**	**110**	**111**	**100**
13C8-PFOA	----	0.02	%		**101**	**99.8**	**103**	**104**	**98.6**

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	S40_d	S40_S	BUR_MW108	D01_220119	T01_220119
			Sampling date / time	20-Jan-2022 00:00	20-Jan-2022 00:00	20-Jan-2022 00:00	19-Jan-2022 00:00	19-Jan-2022 00:00
Compound	CAS Number	LOR	Unit	ES2202047-007	ES2202047-008	ES2202047-009	ES2202047-010	ES2202047-011
				Result	Result	Result	Result	Result
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	**0.02**	<0.01	<0.01	<0.01	<0.01
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	**0.02**	**0.02**
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	S40_d	S40_S	BUR_MW108	D01_220119	T01_220119
			Sampling date / time	20-Jan-2022 00:00	20-Jan-2022 00:00	20-Jan-2022 00:00	19-Jan-2022 00:00	19-Jan-2022 00:00
Compound	CAS Number	LOR	Unit	ES2202047-007	ES2202047-008	ES2202047-009	ES2202047-010	ES2202047-011
				Result	Result	Result	Result	Result
EP231C: Perfluoroalkyl Sulfonamides - Continued								
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	**0.07**	<0.05	<0.05
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231P: PFAS Sums								
Sum of PFAS	----	0.01	µg/L	**0.02**	<0.01	**0.07**	**0.02**	**0.02**
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	**0.02**	<0.01	<0.01	**0.02**	**0.02**
Sum of PFAS (WA DER List)	----	0.01	µg/L	**0.02**	<0.01	**0.07**	**0.02**	**0.02**
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.02	%	**110**	**111**	**106**	**112**	**105**
13C8-PFOA	----	0.02	%	**108**	**102**	**101**	**104**	**99.7**

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	BUR_BH125	R01_220121	TRIP SPIKE	TRIP BLANK	SMW_BH120
			Sampling date / time	21-Jan-2022 00:00	21-Jan-2022 00:00	13-Jan-2022 00:00	13-Jan-2022 00:00	19-Jan-2022 00:00
Compound	CAS Number	LOR	Unit	ES2202047-012	ES2202047-013	ES2202047-014	ES2202047-015	ES2202047-016
				Result	Result	Result	Result	Result
EA015: Total Dissolved Solids dried at 180 ± 5 °C								
Total Dissolved Solids @180°C	----	10	mg/L	**1350**	----	----	----	----
ED037P: Alkalinity by PC Titrator								
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	**98**	----	----	----	----
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	**43**	----	----	----	----
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	<1	----	----	----	----
Total Alkalinity as CaCO3	----	1	mg/L	**142**	----	----	----	----
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA								
Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	**274**	----	----	----	----
ED045G: Chloride by Discrete Analyser								
Chloride	16887-00-6	1	mg/L	**566**	----	----	----	----
ED093F: Dissolved Major Cations								
Calcium	7440-70-2	1	mg/L	**4**	----	----	----	----
Magnesium	7439-95-4	1	mg/L	**2**	----	----	----	----
Sodium	7440-23-5	1	mg/L	**456**	----	----	----	----
Potassium	7440-09-7	1	mg/L	**13**	----	----	----	----
EG020F: Dissolved Metals by ICP-MS								
Arsenic	7440-38-2	0.001	mg/L	**0.017**	----	----	----	----
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	----	----	----	----
Chromium	7440-47-3	0.001	mg/L	<0.001	----	----	----	----
Copper	7440-50-8	0.001	mg/L	**0.002**	----	----	----	----
Lead	7439-92-1	0.001	mg/L	<0.001	----	----	----	----
Nickel	7440-02-0	0.001	mg/L	**0.004**	----	----	----	----
Zinc	7440-66-6	0.005	mg/L	<0.005	----	----	----	----
EG020T: Total Metals by ICP-MS								
Arsenic	7440-38-2	0.001	mg/L	----	<0.001	----	----	----
Cadmium	7440-43-9	0.0001	mg/L	----	<0.0001	----	----	----
Chromium	7440-47-3	0.001	mg/L	----	<0.001	----	----	----
Copper	7440-50-8	0.001	mg/L	----	<0.001	----	----	----
Lead	7439-92-1	0.001	mg/L	----	<0.001	----	----	----
Nickel	7440-02-0	0.001	mg/L	----	<0.001	----	----	----
Zinc	7440-66-6	0.005	mg/L	----	<0.005	----	----	----
EG035F: Dissolved Mercury by FIMS								
Mercury	7439-97-6	0.0001	mg/L	<0.0001	----	----	----	----
EG035T: Total Recoverable Mercury by FIMS								

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	BUR_BH125	R01_220121	TRIP SPIKE	TRIP BLANK	SMW_BH120
				Sampling date / time	21-Jan-2022 00:00	21-Jan-2022 00:00	13-Jan-2022 00:00	13-Jan-2022 00:00	19-Jan-2022 00:00
Compound	CAS Number	LOR	Unit		ES2202047-012	ES2202047-013	ES2202047-014	ES2202047-015	ES2202047-016
					Result	Result	Result	Result	Result
EG035T: Total Recoverable Mercury by FIMS - Continued									
Mercury	7439-97-6	0.0001	mg/L		----	<0.0001	----	----	----
EK055G: Ammonia as N by Discrete Analyser									
Ammonia as N	7664-41-7	0.01	mg/L		**1.48**	<0.01	----	----	----
EK057G: Nitrite as N by Discrete Analyser									
Nitrite as N	14797-65-0	0.01	mg/L		**0.26**	----	----	----	----
EK058G: Nitrate as N by Discrete Analyser									
Nitrate as N	14797-55-8	0.01	mg/L		<0.01	----	----	----	----
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser									
Nitrite + Nitrate as N	----	0.01	mg/L		**0.10**	<0.01	----	----	----
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser									
Total Kjeldahl Nitrogen as N	----	0.1	mg/L		**3.8**	<0.1	----	----	----
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser									
^ Total Nitrogen as N	----	0.1	mg/L		**3.9**	<0.1	----	----	----
EK067G: Total Phosphorus as P by Discrete Analyser									
Total Phosphorus as P	----	0.01	mg/L		**1.13**	<0.01	----	----	----
EK071G: Reactive Phosphorus as P by discrete analyser									
Reactive Phosphorus as P	14265-44-2	0.01	mg/L		<0.01	----	----	----	----
EN055: Ionic Balance									
ø Total Anions	----	0.01	meq/L		**24.5**	----	----	----	----
ø Total Cations	----	0.01	meq/L		**20.5**	----	----	----	----
ø Ionic Balance	----	0.01	%		**8.83**	----	----	----	----
EP074A: Monocyclic Aromatic Hydrocarbons									
Styrene	100-42-5	5	µg/L		<5	<5	----	----	----
Isopropylbenzene	98-82-8	5	µg/L		<5	<5	----	----	----
n-Propylbenzene	103-65-1	5	µg/L		<5	<5	----	----	----
1.3.5-Trimethylbenzene	108-67-8	5	µg/L		<5	<5	----	----	----
sec-Butylbenzene	135-98-8	5	µg/L		<5	<5	----	----	----
1.2.4-Trimethylbenzene	95-63-6	5	µg/L		<5	<5	----	----	----
tert-Butylbenzene	98-06-6	5	µg/L		<5	<5	----	----	----
p-Isopropyltoluene	99-87-6	5	µg/L		<5	<5	----	----	----
n-Butylbenzene	104-51-8	5	µg/L		<5	<5	----	----	----
EP074B: Oxygenated Compounds									
Vinyl Acetate	108-05-4	50	µg/L		<50	<50	----	----	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	BUR_BH125	R01_220121	TRIP SPIKE	TRIP BLANK	SMW_BH120
			Sampling date / time	21-Jan-2022 00:00	21-Jan-2022 00:00	13-Jan-2022 00:00	13-Jan-2022 00:00	19-Jan-2022 00:00
Compound	CAS Number	LOR	Unit	ES2202047-012	ES2202047-013	ES2202047-014	ES2202047-015	ES2202047-016
				Result	Result	Result	Result	Result
EP074B: Oxygenated Compounds - Continued								
2-Butanone (MEK)	78-93-3	50	µg/L	<50	<50	----	----	----
4-Methyl-2-pentanone (MIBK)	108-10-1	50	µg/L	<50	<50	----	----	----
2-Hexanone (MBK)	591-78-6	50	µg/L	<50	<50	----	----	----
EP074C: Sulfonated Compounds								
Carbon disulfide	75-15-0	5	µg/L	<5	<5	----	----	----
EP074D: Fumigants								
2.2-Dichloropropane	594-20-7	5	µg/L	<5	<5	----	----	----
1.2-Dichloropropane	78-87-5	5	µg/L	<5	<5	----	----	----
cis-1.3-Dichloropropylene	10061-01-5	5	µg/L	<5	<5	----	----	----
trans-1.3-Dichloropropylene	10061-02-6	5	µg/L	<5	<5	----	----	----
1.2-Dibromoethane (EDB)	106-93-4	5	µg/L	<5	<5	----	----	----
EP074E: Halogenated Aliphatic Compounds								
Dichlorodifluoromethane	75-71-8	50	µg/L	<50	<50	----	----	----
Chloromethane	74-87-3	50	µg/L	<50	<50	----	----	----
Vinyl chloride	75-01-4	50	µg/L	<50	<50	----	----	----
Bromomethane	74-83-9	50	µg/L	<50	<50	----	----	----
Chloroethane	75-00-3	50	µg/L	<50	<50	----	----	----
Trichlorofluoromethane	75-69-4	50	µg/L	<50	<50	----	----	----
1.1-Dichloroethene	75-35-4	5	µg/L	<5	<5	----	----	----
Iodomethane	74-88-4	5	µg/L	<5	<5	----	----	----
trans-1.2-Dichloroethene	156-60-5	5	µg/L	<5	<5	----	----	----
1.1-Dichloroethane	75-34-3	5	µg/L	<5	<5	----	----	----
cis-1.2-Dichloroethene	156-59-2	5	µg/L	<5	<5	----	----	----
1.1.1-Trichloroethane	71-55-6	5	µg/L	<5	<5	----	----	----
1.1-Dichloropropylene	563-58-6	5	µg/L	<5	<5	----	----	----
Carbon Tetrachloride	56-23-5	5	µg/L	<5	<5	----	----	----
1.2-Dichloroethane	107-06-2	5	µg/L	<5	<5	----	----	----
Trichloroethene	79-01-6	5	µg/L	<5	<5	----	----	----
Dibromomethane	74-95-3	5	µg/L	<5	<5	----	----	----
1.1.2-Trichloroethane	79-00-5	5	µg/L	<5	<5	----	----	----
1.3-Dichloropropane	142-28-9	5	µg/L	<5	<5	----	----	----
Tetrachloroethene	127-18-4	5	µg/L	<5	<5	----	----	----
1.1.1.2-Tetrachloroethane	630-20-6	5	µg/L	<5	<5	----	----	----
trans-1.4-Dichloro-2-butene	110-57-6	5	µg/L	<5	<5	----	----	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	BUR_BH125	R01_220121	TRIP SPIKE	TRIP BLANK	SMW_BH120
			Sampling date / time	21-Jan-2022 00:00	21-Jan-2022 00:00	13-Jan-2022 00:00	13-Jan-2022 00:00	19-Jan-2022 00:00
Compound	CAS Number	LOR	Unit	ES2202047-012	ES2202047-013	ES2202047-014	ES2202047-015	ES2202047-016
				Result	Result	Result	Result	Result
EP074E: Halogenated Aliphatic Compounds - Continued								
cis-1.4-Dichloro-2-butene	1476-11-5	5	µg/L	<5	<5	----	----	----
1.1.2.2-Tetrachloroethane	79-34-5	5	µg/L	<5	<5	----	----	----
1.2.3-Trichloropropane	96-18-4	5	µg/L	<5	<5	----	----	----
Pentachloroethane	76-01-7	5	µg/L	<5	<5	----	----	----
1.2-Dibromo-3-chloropropane	96-12-8	5	µg/L	<5	<5	----	----	----
EP074F: Halogenated Aromatic Compounds								
Chlorobenzene	108-90-7	5	µg/L	<5	<5	----	----	----
Bromobenzene	108-86-1	5	µg/L	<5	<5	----	----	----
2-Chlorotoluene	95-49-8	5	µg/L	<5	<5	----	----	----
4-Chlorotoluene	106-43-4	5	µg/L	<5	<5	----	----	----
1.2.3-Trichlorobenzene	87-61-6	5	µg/L	<5	<5	----	----	----
EP074G: Trihalomethanes								
Chloroform	67-66-3	5	µg/L	7	<5	----	----	----
Bromodichloromethane	75-27-4	5	µg/L	<5	<5	----	----	----
Dibromochloromethane	124-48-1	5	µg/L	<5	<5	----	----	----
Bromoform	75-25-2	5	µg/L	<5	<5	----	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	1.0	µg/L	<1.0	<1.0	----	----	----
Acenaphthylene	208-96-8	1.0	µg/L	<1.0	<1.0	----	----	----
Acenaphthene	83-32-9	1.0	µg/L	<1.0	<1.0	----	----	----
Fluorene	86-73-7	1.0	µg/L	<1.0	<1.0	----	----	----
Phenanthrene	85-01-8	1.0	µg/L	<1.0	<1.0	----	----	----
Anthracene	120-12-7	1.0	µg/L	<1.0	<1.0	----	----	----
Fluoranthene	206-44-0	1.0	µg/L	<1.0	<1.0	----	----	----
Pyrene	129-00-0	1.0	µg/L	<1.0	<1.0	----	----	----
Benz(a)anthracene	56-55-3	1.0	µg/L	<1.0	<1.0	----	----	----
Chrysene	218-01-9	1.0	µg/L	<1.0	<1.0	----	----	----
Benzo(b+j)fluoranthene	205-99-2 205-82-3	1.0	µg/L	<1.0	<1.0	----	----	----
Benzo(k)fluoranthene	207-08-9	1.0	µg/L	<1.0	<1.0	----	----	----
Benzo(a)pyrene	50-32-8	0.5	µg/L	<0.5	<0.5	----	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	1.0	µg/L	<1.0	<1.0	----	----	----
Dibenz(a.h)anthracene	53-70-3	1.0	µg/L	<1.0	<1.0	----	----	----
Benzo(g.h.i)perylene	191-24-2	1.0	µg/L	<1.0	<1.0	----	----	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	µg/L	<0.5	<0.5	----	----	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	BUR_BH125	R01_220121	TRIP SPIKE	TRIP BLANK	SMW_BH120
				Sampling date / time	21-Jan-2022 00:00	21-Jan-2022 00:00	13-Jan-2022 00:00	13-Jan-2022 00:00	19-Jan-2022 00:00
Compound	CAS Number	LOR	Unit		ES2202047-012	ES2202047-013	ES2202047-014	ES2202047-015	ES2202047-016
					Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued									
^ Benzo(a)pyrene TEQ (zero)	----	0.5	µg/L		<0.5	<0.5	----	----	----
EP075A: Phenolic Compounds									
Phenol	108-95-2	2	µg/L		<2	<2	----	----	----
2-Chlorophenol	95-57-8	2	µg/L		<2	<2	----	----	----
2-Methylphenol	95-48-7	2	µg/L		<2	<2	----	----	----
3- & 4-Methylphenol	1319-77-3	4	µg/L		<4	<4	----	----	----
2-Nitrophenol	88-75-5	2	µg/L		<2	<2	----	----	----
2.4-Dimethylphenol	105-67-9	2	µg/L		<2	<2	----	----	----
2.4-Dichlorophenol	120-83-2	2	µg/L		<2	<2	----	----	----
2.6-Dichlorophenol	87-65-0	2	µg/L		<2	<2	----	----	----
4-Chloro-3-methylphenol	59-50-7	2	µg/L		<2	<2	----	----	----
2.4.6-Trichlorophenol	88-06-2	2	µg/L		<2	<2	----	----	----
2.4.5-Trichlorophenol	95-95-4	2	µg/L		<2	<2	----	----	----
Pentachlorophenol	87-86-5	4	µg/L		<4	<4	----	----	----
EP075B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	2	µg/L		<2	<2	----	----	----
2-Methylnaphthalene	91-57-6	2	µg/L		<2	<2	----	----	----
2-Chloronaphthalene	91-58-7	2	µg/L		<2	<2	----	----	----
Acenaphthylene	208-96-8	2	µg/L		<2	<2	----	----	----
Acenaphthene	83-32-9	2	µg/L		<2	<2	----	----	----
Fluorene	86-73-7	2	µg/L		<2	<2	----	----	----
Phenanthrene	85-01-8	2	µg/L		<2	<2	----	----	----
Anthracene	120-12-7	2	µg/L		<2	<2	----	----	----
Fluoranthene	206-44-0	2	µg/L		<2	<2	----	----	----
Pyrene	129-00-0	2	µg/L		<2	<2	----	----	----
N-2-Fluorenyl Acetamide	53-96-3	2	µg/L		<2	<2	----	----	----
Benz(a)anthracene	56-55-3	2	µg/L		<2	<2	----	----	----
Chrysene	218-01-9	2	µg/L		<2	<2	----	----	----
Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	4	µg/L		<4	<4	----	----	----
7.12-Dimethylbenz(a)anthracene	57-97-6	2	µg/L		<2	<2	----	----	----
Benzo(a)pyrene	50-32-8	2	µg/L		<2	<2	----	----	----
3-Methylcholanthrene	56-49-5	2	µg/L		<2	<2	----	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	2	µg/L		<2	<2	----	----	----
Dibenz(a.h)anthracene	53-70-3	2	µg/L		<2	<2	----	----	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	BUR_BH125	R01_220121	TRIP SPIKE	TRIP BLANK	SMW_BH120
				Sampling date / time	21-Jan-2022 00:00	21-Jan-2022 00:00	13-Jan-2022 00:00	13-Jan-2022 00:00	19-Jan-2022 00:00
Compound	CAS Number	LOR	Unit		ES2202047-012	ES2202047-013	ES2202047-014	ES2202047-015	ES2202047-016
					Result	Result	Result	Result	Result
EP075B: Polynuclear Aromatic Hydrocarbons - Continued									
Benzo(g.h.i)perylene	191-24-2	2	µg/L		<2	<2	----	----	----
^ Sum of PAHs	----	2	µg/L		<2	<2	----	----	----
^ Benzo(a)pyrene TEQ (zero)	----	2	µg/L		<2	<2	----	----	----
EP075C: Phthalate Esters									
Dimethyl phthalate	131-11-3	2	µg/L		<2	<2	----	----	----
Diethyl phthalate	84-66-2	2	µg/L		<2	<2	----	----	----
Di-n-butyl phthalate	84-74-2	2	µg/L		<2	<2	----	----	----
Butyl benzyl phthalate	85-68-7	2	µg/L		<2	<2	----	----	----
bis(2-ethylhexyl) phthalate	117-81-7	10	µg/L		<10	<10	----	----	----
Di-n-octylphthalate	117-84-0	2	µg/L		<2	<2	----	----	----
EP075D: Nitrosamines									
N-Nitrosomethylethylamine	10595-95-6	2	µg/L		<2	<2	----	----	----
N-Nitrosodiethylamine	55-18-5	2	µg/L		<2	<2	----	----	----
N-Nitrosopyrrolidine	930-55-2	4	µg/L		<4	<4	----	----	----
N-Nitrosomorpholine	59-89-2	2	µg/L		<2	<2	----	----	----
N-Nitrosodi-n-propylamine	621-64-7	2	µg/L		<2	<2	----	----	----
N-Nitrosopiperidine	100-75-4	2	µg/L		<2	<2	----	----	----
N-Nitrosodibutylamine	924-16-3	2	µg/L		<2	<2	----	----	----
N-Nitrosodiphenyl & Diphenylamine	86-30-6 122-39-4	4	µg/L		<4	<4	----	----	----
Methapyrilene	91-80-5	2	µg/L		<2	<2	----	----	----
EP075E: Nitroaromatics and Ketones									
2-Picoline	109-06-8	2	µg/L		<2	<2	----	----	----
Acetophenone	98-86-2	2	µg/L		<2	<2	----	----	----
Nitrobenzene	98-95-3	2	µg/L		<2	<2	----	----	----
Isophorone	78-59-1	2	µg/L		<2	<2	----	----	----
2.6-Dinitrotoluene	606-20-2	4	µg/L		<4	<4	----	----	----
2.4-Dinitrotoluene	121-14-2	4	µg/L		<4	<4	----	----	----
1-Naphthylamine	134-32-7	2	µg/L		<2	<2	----	----	----
4-Nitroquinoline-N-oxide	56-57-5	2	µg/L		<2	<2	----	----	----
5-Nitro-o-toluidine	99-55-8	2	µg/L		<2	<2	----	----	----
Azobenzene	103-33-3	2	µg/L		<2	<2	----	----	----
1.3.5-Trinitrobenzene	99-35-4	2	µg/L		<2	<2	----	----	----
Phenacetin	62-44-2	2	µg/L		<2	<2	----	----	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	BUR_BH125	R01_220121	TRIP SPIKE	TRIP BLANK	SMW_BH120
			Sampling date / time	21-Jan-2022 00:00	21-Jan-2022 00:00	13-Jan-2022 00:00	13-Jan-2022 00:00	19-Jan-2022 00:00
Compound	CAS Number	LOR	Unit	ES2202047-012	ES2202047-013	ES2202047-014	ES2202047-015	ES2202047-016
				Result	Result	Result	Result	Result
EP075E: Nitroaromatics and Ketones - Continued								
4-Aminobiphenyl	92-67-1	2	µg/L	<2	<2	----	----	----
Pentachloronitrobenzene	82-68-8	2	µg/L	<2	<2	----	----	----
Pronamide	23950-58-5	2	µg/L	<2	<2	----	----	----
Dimethylaminoazobenzene	60-11-7	2	µg/L	<2	<2	----	----	----
Chlorobenzilate	510-15-6	2	µg/L	<2	<2	----	----	----
EP075F: Haloethers								
Bis(2-chloroethyl) ether	111-44-4	2	µg/L	<2	<2	----	----	----
Bis(2-chloroethoxy) methane	111-91-1	2	µg/L	<2	<2	----	----	----
4-Chlorophenyl phenyl ether	7005-72-3	2	µg/L	<2	<2	----	----	----
4-Bromophenyl phenyl ether	101-55-3	2	µg/L	<2	<2	----	----	----
EP075G: Chlorinated Hydrocarbons								
1.3-Dichlorobenzene	541-73-1	2	µg/L	<2	<2	----	----	----
1.4-Dichlorobenzene	106-46-7	2	µg/L	<2	<2	----	----	----
1.2-Dichlorobenzene	95-50-1	2	µg/L	<2	<2	----	----	----
Hexachloroethane	67-72-1	2	µg/L	<2	<2	----	----	----
1.2.4-Trichlorobenzene	120-82-1	2	µg/L	<2	<2	----	----	----
Hexachloropropylene	1888-71-7	2	µg/L	<2	<2	----	----	----
Hexachlorobutadiene	87-68-3	2	µg/L	<2	<2	----	----	----
Hexachlorocyclopentadiene	77-47-4	10	µg/L	<10	<10	----	----	----
Pentachlorobenzene	608-93-5	2	µg/L	<2	<2	----	----	----
Hexachlorobenzene (HCB)	118-74-1	4	µg/L	<4	<4	----	----	----
EP075H: Anilines and Benzidines								
Aniline	62-53-3	2	µg/L	<2	<2	----	----	----
4-Chloroaniline	106-47-8	2	µg/L	<2	<2	----	----	----
2-Nitroaniline	88-74-4	4	µg/L	<4	<4	----	----	----
3-Nitroaniline	99-09-2	4	µg/L	<4	<4	----	----	----
Dibenzofuran	132-64-9	2	µg/L	<2	<2	----	----	----
4-Nitroaniline	100-01-6	2	µg/L	<2	<2	----	----	----
Carbazole	86-74-8	2	µg/L	<2	<2	----	----	----
3.3`-Dichlorobenzidine	91-94-1	2	µg/L	<2	<2	----	----	----
EP075I: Organochlorine Pesticides								
alpha-BHC	319-84-6	2	µg/L	<2	<2	----	----	----
beta-BHC	319-85-7	2	µg/L	<2	<2	----	----	----
gamma-BHC	58-89-9	2	µg/L	<2	<2	----	----	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	BUR_BH125	R01_220121	TRIP SPIKE	TRIP BLANK	SMW_BH120
				Sampling date / time	21-Jan-2022 00:00	21-Jan-2022 00:00	13-Jan-2022 00:00	13-Jan-2022 00:00	19-Jan-2022 00:00
Compound	CAS Number	LOR	Unit		ES2202047-012	ES2202047-013	ES2202047-014	ES2202047-015	ES2202047-016
					Result	Result	Result	Result	Result
EP075I: Organochlorine Pesticides - Continued									
delta-BHC	319-86-8	2	µg/L		<2	<2	----	----	----
Heptachlor	76-44-8	2	µg/L		<2	<2	----	----	----
Aldrin	309-00-2	2	µg/L		<2	<2	----	----	----
Heptachlor epoxide	1024-57-3	2	µg/L		<2	<2	----	----	----
alpha-Endosulfan	959-98-8	2	µg/L		<2	<2	----	----	----
4.4`-DDE	72-55-9	2	µg/L		<2	<2	----	----	----
Dieldrin	60-57-1	2	µg/L		<2	<2	----	----	----
Endrin	72-20-8	2	µg/L		<2	<2	----	----	----
beta-Endosulfan	33213-65-9	2	µg/L		<2	<2	----	----	----
4.4`-DDD	72-54-8	2	µg/L		<2	<2	----	----	----
Endosulfan sulfate	1031-07-8	2	µg/L		<2	<2	----	----	----
4.4`-DDT	50-29-3	4	µg/L		<4	<4	----	----	----
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	4	µg/L		<4	<4	----	----	----
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	4	µg/L		<4	<4	----	----	----
EP075J: Organophosphorus Pesticides									
Dichlorvos	62-73-7	2	µg/L		<2	<2	----	----	----
Dimethoate	60-51-5	2	µg/L		<2	<2	----	----	----
Diazinon	333-41-5	2	µg/L		<2	<2	----	----	----
Chlorpyrifos-methyl	5598-13-0	2	µg/L		<2	<2	----	----	----
Malathion	121-75-5	2	µg/L		<2	<2	----	----	----
Fenthion	55-38-9	2	µg/L		<2	<2	----	----	----
Chlorpyrifos	2921-88-2	2	µg/L		<2	<2	----	----	----
Pirimphos-ethyl	23505-41-1	2	µg/L		<2	<2	----	----	----
Chlorfenvinphos	470-90-6	2	µg/L		<2	<2	----	----	----
Prothiofos	34643-46-4	2	µg/L		<2	<2	----	----	----
Ethion	563-12-2	2	µg/L		<2	<2	----	----	----
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	20	µg/L		<20	<20	----	<20	----
C10 - C14 Fraction	----	50	µg/L		**290**	<50	----	----	----
C15 - C28 Fraction	----	100	µg/L		**430**	<100	----	----	----
C29 - C36 Fraction	----	50	µg/L		<50	<50	----	----	----
^ C10 - C36 Fraction (sum)	----	50	µg/L		**720**	<50	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	BUR_BH125	R01_220121	TRIP SPIKE	TRIP BLANK	SMW_BH120
				Sampling date / time	21-Jan-2022 00:00	21-Jan-2022 00:00	13-Jan-2022 00:00	13-Jan-2022 00:00	19-Jan-2022 00:00
Compound	CAS Number	LOR	Unit		ES2202047-012	ES2202047-013	ES2202047-014	ES2202047-015	ES2202047-016
					Result	Result	Result	Result	Result
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued									
C6 - C10 Fraction	C6_C10	20	µg/L		<20	<20	----	<20	----
^ **C6 - C10 Fraction minus BTEX (F1)**	C6_C10-BTEX	20	µg/L		<20	<20	----	<20	----
>C10 - C16 Fraction	----	100	µg/L		**570**	<100	----	----	----
>C16 - C34 Fraction	----	100	µg/L		**190**	<100	----	----	----
>C34 - C40 Fraction	----	100	µg/L		<100	<100	----	----	----
^ **>C10 - C40 Fraction (sum)**	----	100	µg/L		**760**	<100	----	----	----
^ **>C10 - C16 Fraction minus Naphthalene (F2)**	----	100	µg/L		**570**	<100	----	----	----
EP080: BTEXN									
Benzene	71-43-2	1	µg/L		<1	<1	**16**	<1	----
Toluene	108-88-3	2	µg/L		<2	<2	**16**	<2	----
Ethylbenzene	100-41-4	2	µg/L		<2	<2	**15**	<2	----
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L		<2	<2	**15**	<2	----
ortho-Xylene	95-47-6	2	µg/L		<2	<2	**16**	<2	----
^ **Total Xylenes**	----	2	µg/L		<2	<2	**31**	<2	----
^ **Sum of BTEX**	----	1	µg/L		<1	<1	**78**	<1	----
Naphthalene	91-20-3	5	µg/L		<5	<5	**18**	<5	----
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L		<0.02	<0.02	----	----	<0.02
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L		<0.02	<0.02	----	----	<0.02
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L		<0.01	<0.01	----	----	<0.01
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L		<0.02	<0.02	----	----	<0.02
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L		<0.01	<0.01	----	----	<0.01
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L		<0.02	<0.02	----	----	<0.02
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L		<0.1	<0.1	----	----	<0.1
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L		<0.02	<0.02	----	----	<0.02
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L		<0.02	<0.02	----	----	<0.02

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	BUR_BH125	R01_220121	TRIP SPIKE	TRIP BLANK	SMW_BH120
				Sampling date / time	21-Jan-2022 00:00	21-Jan-2022 00:00	13-Jan-2022 00:00	13-Jan-2022 00:00	19-Jan-2022 00:00
Compound	CAS Number	LOR	Unit		ES2202047-012	ES2202047-013	ES2202047-014	ES2202047-015	ES2202047-016
					Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids - Continued									
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L		<0.02	<0.02	----	----	<0.02
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L		<0.01	<0.01	----	----	<0.01
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L		<0.02	<0.02	----	----	<0.02
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L		<0.02	<0.02	----	----	<0.02
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L		<0.02	<0.02	----	----	<0.02
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L		<0.02	<0.02	----	----	<0.02
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L		<0.02	<0.02	----	----	<0.02
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L		<0.05	<0.05	----	----	<0.05
EP231C: Perfluoroalkyl Sulfonamides									
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L		<0.02	<0.02	----	----	<0.02
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L		<0.05	<0.05	----	----	<0.05
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L		<0.05	<0.05	----	----	<0.05
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L		<0.05	<0.05	----	----	<0.05
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L		<0.05	<0.05	----	----	<0.05
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L		<0.02	<0.02	----	----	<0.02
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L		<0.02	<0.02	----	----	<0.02
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L		<0.05	<0.05	----	----	<0.05
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L		<0.05	<0.05	----	----	<0.05
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L		<0.05	<0.05	----	----	<0.05

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	BUR_BH125	R01_220121	TRIP SPIKE	TRIP BLANK	SMW_BH120
			Sampling date / time	21-Jan-2022 00:00	21-Jan-2022 00:00	13-Jan-2022 00:00	13-Jan-2022 00:00	19-Jan-2022 00:00
Compound	CAS Number	LOR	Unit	ES2202047-012	ES2202047-013	ES2202047-014	ES2202047-015	ES2202047-016
				Result	Result	Result	Result	Result
EP231D: (n:2) Fluorotelomer Sulfonic Acids - Continued								
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	----	----	<0.05
EP231P: PFAS Sums								
Sum of PFAS	----	0.01	µg/L	<0.01	<0.01	----	----	<0.01
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	----	----	<0.01
Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.01	<0.01	----	----	<0.01
EP074S: VOC Surrogates								
1.2-Dichloroethane-D4	17060-07-0	5	%	114	111	----	----	----
Toluene-D8	2037-26-5	5	%	128	110	----	----	----
4-Bromofluorobenzene	460-00-4	5	%	119	106	----	----	----
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	1.0	%	Not Determined	21.0	----	----	----
2-Chlorophenol-D4	93951-73-6	1.0	%	Not Determined	53.9	----	----	----
2.4.6-Tribromophenol	118-79-6	1.0	%	Not Determined	50.2	----	----	----
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	1.0	%	66.1	71.4	----	----	----
Anthracene-d10	1719-06-8	1.0	%	89.0	94.5	----	----	----
4-Terphenyl-d14	1718-51-0	1.0	%	79.4	84.5	----	----	----
EP075S: Acid Extractable Surrogates								
2-Fluorophenol	367-12-4	2	%	Not Determined	44.2	----	----	----
Phenol-d6	13127-88-3	2	%	Not Determined	30.2	----	----	----
2-Chlorophenol-D4	93951-73-6	2	%	Not Determined	62.8	----	----	----
2.4.6-Tribromophenol	118-79-6	2	%	Not Determined	69.1	----	----	----
EP075T: Base/Neutral Extractable Surrogates								
Nitrobenzene-D5	4165-60-0	2	%	48.1	61.6	----	----	----
1.2-Dichlorobenzene-D4	2199-69-1	2	%	45.0	56.6	----	----	----
2-Fluorobiphenyl	321-60-8	2	%	55.5	64.9	----	----	----
Anthracene-d10	1719-06-8	2	%	89.7	99.5	----	----	----
4-Terphenyl-d14	1718-51-0	2	%	73.3	83.5	----	----	----
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	2	%	114	111	119	102	----
Toluene-D8	2037-26-5	2	%	121	104	110	109	----
4-Bromofluorobenzene	460-00-4	2	%	119	106	110	109	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	BUR_BH125	R01_220121	TRIP SPIKE	TRIP BLANK	SMW_BH120
				Sampling date / time	21-Jan-2022 00:00	21-Jan-2022 00:00	13-Jan-2022 00:00	13-Jan-2022 00:00	19-Jan-2022 00:00
Compound	CAS Number	LOR	Unit		ES2202047-012	ES2202047-013	ES2202047-014	ES2202047-015	ES2202047-016
					Result	Result	Result	Result	Result
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.02	%		104	108	----	----	109
13C8-PFOA	----	0.02	%		101	101	----	----	103

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	SMW_BH019	R01_220119	SMW_BH038	SMW_BH035	SMW_BH035_S
				Sampling date / time	19-Jan-2022 00:00	19-Jan-2022 00:00	19-Jan-2022 00:00	18-Jan-2022 00:00	18-Jan-2022 00:00
Compound	CAS Number	LOR	Unit		ES2202047-017	ES2202047-018	ES2202047-019	ES2202047-020	ES2202047-021
					Result	Result	Result	Result	Result
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L		<0.01	<0.01	**0.01**	<0.01	**0.02**
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L		**0.02**	<0.01	<0.01	<0.01	<0.01
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	<0.1
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L		<0.02	<0.02	**0.03**	<0.02	<0.02
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L		<0.02	<0.02	**0.10**	<0.02	<0.02
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L		<0.01	<0.01	**0.02**	<0.01	<0.01
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05
EP231C: Perfluoroalkyl Sulfonamides									
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	SMW_BH019	R01_220119	SMW_BH038	SMW_BH035	SMW_BH035_S
				Sampling date / time	19-Jan-2022 00:00	19-Jan-2022 00:00	19-Jan-2022 00:00	18-Jan-2022 00:00	18-Jan-2022 00:00
Compound	CAS Number	LOR	Unit		ES2202047-017	ES2202047-018	ES2202047-019	ES2202047-020	ES2202047-021
					Result	Result	Result	Result	Result
EP231C: Perfluoroalkyl Sulfonamides - Continued									
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L		<0.05	<0.05	**0.48**	<0.05	<0.05
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05
EP231P: PFAS Sums									
Sum of PFAS	----	0.01	µg/L		**0.02**	<0.01	**0.64**	<0.01	**0.02**
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L		**0.02**	<0.01	**0.01**	<0.01	**0.02**
Sum of PFAS (WA DER List)	----	0.01	µg/L		**0.02**	<0.01	**0.64**	<0.01	**0.02**
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.02	%		**117**	**104**	**110**	**105**	**108**
13C8-PFOA	----	0.02	%		**102**	**101**	**106**	**100**	**102**

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	R01_220118	R01_220117	R01_220120	----	----
				Sampling date / time	18-Jan-2022 00:00	17-Jan-2022 00:00	20-Jan-2022 00:00	----	----
Compound	CAS Number	LOR	Unit		ES2202047-022	ES2202047-023	ES2202047-024	--------	--------
					Result	Result	Result	----	----
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L		<0.01	<0.01	<0.01	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L		<0.01	<0.01	<0.01	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L		<0.02	<0.02	<0.02	----	----
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L		<0.1	<0.1	<0.1	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L		<0.01	<0.01	<0.01	----	----
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L		<0.05	<0.05	<0.05	----	----
EP231C: Perfluoroalkyl Sulfonamides									
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L		<0.02	<0.02	<0.02	----	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L		<0.05	<0.05	<0.05	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L		<0.05	<0.05	<0.05	----	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	R01_220118	R01_220117	R01_220120	----	----
				Sampling date / time	18-Jan-2022 00:00	17-Jan-2022 00:00	20-Jan-2022 00:00	----	----
Compound	CAS Number	LOR	Unit		ES2202047-022	ES2202047-023	ES2202047-024	--------	--------
					Result	Result	Result	----	----
EP231C: Perfluoroalkyl Sulfonamides - Continued									
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L		<0.05	<0.05	<0.05	----	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L		<0.05	<0.05	<0.05	----	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L		<0.02	<0.02	<0.02	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L		<0.02	<0.02	<0.02	----	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L		<0.05	<0.05	<0.05	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L		<0.05	<0.05	<0.05	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L		<0.05	<0.05	<0.05	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L		<0.05	<0.05	<0.05	----	----
EP231P: PFAS Sums									
Sum of PFAS	----	0.01	µg/L		<0.01	<0.01	<0.01	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L		<0.01	<0.01	<0.01	----	----
Sum of PFAS (WA DER List)	----	0.01	µg/L		<0.01	<0.01	<0.01	----	----
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.02	%		**107**	**98.2**	**107**	----	----
13C8-PFOA	----	0.02	%		**98.3**	**93.4**	**96.7**	----	----

Surrogate Control Limits

Sub-Matrix: **WATER**		Recovery Limits (%)	
Compound	*CAS Number*	*Low*	*High*
EP074S: VOC Surrogates			
1.2-Dichloroethane-D4	17060-07-0	78	133
Toluene-D8	2037-26-5	79	129
4-Bromofluorobenzene	460-00-4	81	124
EP075(SIM)S: Phenolic Compound Surrogates			
Phenol-d6	13127-88-3	10	44
2-Chlorophenol-D4	93951-73-6	14	94
2.4.6-Tribromophenol	118-79-6	17	125
EP075(SIM)T: PAH Surrogates			
2-Fluorobiphenyl	321-60-8	20	104
Anthracene-d10	1719-06-8	27	113
4-Terphenyl-d14	1718-51-0	32	112
EP075S: Acid Extractable Surrogates			
2-Fluorophenol	367-12-4	10	117
Phenol-d6	13127-88-3	10	69
2-Chlorophenol-D4	93951-73-6	21	130
2.4.6-Tribromophenol	118-79-6	10	151
EP075T: Base/Neutral Extractable Surrogates			
Nitrobenzene-D5	4165-60-0	29	142
1.2-Dichlorobenzene-D4	2199-69-1	24	121
2-Fluorobiphenyl	321-60-8	27	135
Anthracene-d10	1719-06-8	27	113
4-Terphenyl-d14	1718-51-0	21	123
EP080S: TPH(V)/BTEX Surrogates			
1.2-Dichloroethane-D4	17060-07-0	71	137
Toluene-D8	2037-26-5	79	131
4-Bromofluorobenzene	460-00-4	70	128
EP231S: PFAS Surrogate			
13C4-PFOS	----	60	120
13C8-PFOA	----	60	120

QUALITY CONTROL REPORT

Work Order	: **ES2202047**	Page	: 1 of 22
Client	: **ENVIRONMENTAL RESOURCES MANAGEMENT (ERM)**	Laboratory	: Environmental Division Sydney
Contact	: NICHOLAS GRBICH	Contact	: Customer Services ES
Address	: LEVEL 15 309 KENT STREET SYDNEY NSW AUSTRALIA 2000	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: ----	Telephone	: +61-2-8784 8555
Project	: 0628507	Date Samples Received	: 21-Jan-2022
Order number	: ----	Date Analysis Commenced	: 24-Jan-2022
C-O-C number	: ----	Issue Date	: 01-Feb-2022
Sampler	: TAJ MONDON		
Site	: ----		
Quote number	: EN/114		
No. of samples received	: 24		
No. of samples analysed	: 23		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Ankit Joshi	Inorganic Chemist	Sydney Inorganics, Smithfield, NSW
Edwandy Fadjar	Organic Coordinator	Sydney Organics, Smithfield, NSW
Franco Lentini	LCMS Coordinator	Sydney Organics, Smithfield, NSW
Ivan Taylor	Analyst	Sydney Inorganics, Smithfield, NSW

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis. Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Key : Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot
CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
RPD = Relative Percentage Difference
# = Indicates failed QC

Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EA015: Total Dissolved Solids dried at 180 ± 5 °C (QC Lot: 4136430)									
ES2201969-001	Anonymous	EA015H: Total Dissolved Solids @180°C	----	10	mg/L	104	138	28.9	0% - 50%
ES2202013-003	Anonymous	EA015H: Total Dissolved Solids @180°C	----	10	mg/L	509	512	0.7	0% - 20%
ED037P: Alkalinity by PC Titrator (QC Lot: 4137312)									
ES2201979-001	Anonymous	ED037-P: Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1	<1	0.0	No Limit
		ED037-P: Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	<1	<1	0.0	No Limit
		ED037-P: Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	700	714	2.0	0% - 20%
		ED037-P: Total Alkalinity as CaCO3	----	1	mg/L	700	714	2.0	0% - 20%
ES2202025-001	Anonymous	ED037-P: Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1	<1	0.0	No Limit
		ED037-P: Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	<1	<1	0.0	No Limit
		ED037-P: Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	410	416	1.5	0% - 20%
		ED037-P: Total Alkalinity as CaCO3	----	1	mg/L	410	416	1.5	0% - 20%
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA (QC Lot: 4137505)									
ES2202205-001	Anonymous	ED041G: Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	<1	<1	0.0	No Limit
ES2202047-012	BUR_BH125	ED041G: Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	274	273	0.0	0% - 20%
ED045G: Chloride by Discrete Analyser (QC Lot: 4137508)									
ES2202205-001	Anonymous	ED045G: Chloride	16887-00-6	1	mg/L	8	8	0.0	No Limit
ES2202047-012	BUR_BH125	ED045G: Chloride	16887-00-6	1	mg/L	566	565	0.2	0% - 20%
ED093F: Dissolved Major Cations (QC Lot: 4139030)									
ES2202047-012	BUR_BH125	ED093F: Calcium	7440-70-2	1	mg/L	4	4	0.0	No Limit
		ED093F: Magnesium	7439-95-4	1	mg/L	2	2	0.0	No Limit
		ED093F: Sodium	7440-23-5	1	mg/L	456	467	2.3	0% - 20%
		ED093F: Potassium	7440-09-7	1	mg/L	13	13	0.0	0% - 50%
ES2202206-001	Anonymous	ED093F: Calcium	7440-70-2	1	mg/L	50	49	0.0	0% - 20%

Sub-Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report					
				LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
ED093F: Dissolved Major Cations (QC Lot: 4139030) - continued									
ES2202206-001	Anonymous	ED093F: Magnesium	7439-95-4	1	mg/L	9	9	0.0	No Limit
		ED093F: Sodium	7440-23-5	1	mg/L	48	44	9.6	0% - 20%
		ED093F: Potassium	7440-09-7	1	mg/L	15	14	0.0	0% - 50%
EG020F: Dissolved Metals by ICP-MS (QC Lot: 4139027)									
ES2202047-012	BUR_BH125	EG020A-F: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
		EG020A-F: Arsenic	7440-38-2	0.001	mg/L	0.017	0.017	0.0	0% - 50%
		EG020A-F: Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-F: Copper	7440-50-8	0.001	mg/L	0.002	0.002	0.0	No Limit
		EG020A-F: Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-F: Nickel	7440-02-0	0.001	mg/L	0.004	0.004	0.0	No Limit
		EG020A-F: Zinc	7440-66-6	0.005	mg/L	<0.005	<0.005	0.0	No Limit
ES2202206-001	Anonymous	EG020A-F: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
		EG020A-F: Arsenic	7440-38-2	0.001	mg/L	0.030	0.031	0.0	0% - 20%
		EG020A-F: Chromium	7440-47-3	0.001	mg/L	0.001	0.001	0.0	No Limit
		EG020A-F: Copper	7440-50-8	0.001	mg/L	0.027	0.029	6.8	0% - 20%
		EG020A-F: Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-F: Nickel	7440-02-0	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-F: Zinc	7440-66-6	0.005	mg/L	<0.005	<0.005	0.0	No Limit
EG020T: Total Metals by ICP-MS (QC Lot: 4139064)									
ES2201969-002	Anonymous	EG020A-T: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
		EG020A-T: Arsenic	7440-38-2	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Copper	7440-50-8	0.001	mg/L	0.146	0.144	1.4	0% - 20%
		EG020A-T: Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Nickel	7440-02-0	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Zinc	7440-66-6	0.005	mg/L	0.010	0.009	0.0	No Limit
ES2201931-001	Anonymous	EG020A-T: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
		EG020A-T: Arsenic	7440-38-2	0.001	mg/L	0.006	0.005	0.0	No Limit
		EG020A-T: Chromium	7440-47-3	0.001	mg/L	0.003	0.002	0.0	No Limit
		EG020A-T: Copper	7440-50-8	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Nickel	7440-02-0	0.001	mg/L	<0.001	0.001	0.0	No Limit
		EG020A-T: Zinc	7440-66-6	0.005	mg/L	0.122	0.126	3.0	0% - 20%
EG035F: Dissolved Mercury by FIMS (QC Lot: 4139028)									
ES2201966-005	Anonymous	EG035F: Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
ES2202206-001	Anonymous	EG035F: Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 4139154)									
ES2201969-002	Anonymous	EG035T: Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
ES2202101-003	Anonymous	EG035T: Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EK055G: Ammonia as N by Discrete Analyser (QC Lot: 4136962)									
ES2201979-001	Anonymous	EK055G: Ammonia as N	7664-41-7	0.01	mg/L	4.75	4.70	1.1	0% - 20%
EK057G: Nitrite as N by Discrete Analyser (QC Lot: 4137507)									
ES2202205-001	Anonymous	EK057G: Nitrite as N	14797-65-0	0.01	mg/L	<0.01	<0.01	0.0	No Limit
ES2202047-012	BUR_BH125	EK057G: Nitrite as N	14797-65-0	0.01	mg/L	0.26	0.26	0.0	0% - 20%
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QC Lot: 4136963)									
ES2201979-001	Anonymous	EK059G: Nitrite + Nitrate as N	----	0.01	mg/L	<0.10	0.19	62.5	No Limit
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser (QC Lot: 4136959)									
ES2201979-001	Anonymous	EK061G: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	6.8	6.6	2.8	0% - 50%
ES2201979-011	Anonymous	EK061G: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	<0.1	<0.1	0.0	No Limit
EK067G: Total Phosphorus as P by Discrete Analyser (QC Lot: 4136958)									
ES2201979-001	Anonymous	EK067G: Total Phosphorus as P	----	0.01	mg/L	0.68	0.69	1.6	0% - 50%
ES2201979-011	Anonymous	EK067G: Total Phosphorus as P	----	0.01	mg/L	<0.01	<0.01	0.0	No Limit
EK071G: Reactive Phosphorus as P by discrete analyser (QC Lot: 4137506)									
ES2202047-012	BUR_BH125	EK071G: Reactive Phosphorus as P	14265-44-2	0.01	mg/L	<0.01	<0.01	0.0	No Limit
EP074A: Monocyclic Aromatic Hydrocarbons (QC Lot: 4137802)									
ES2201683-020	Anonymous	EP074: Styrene	100-42-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: Isopropylbenzene	98-82-8	5	µg/L	<5	<5	0.0	No Limit
		EP074: n-Propylbenzene	103-65-1	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.3.5-Trimethylbenzene	108-67-8	5	µg/L	<5	<5	0.0	No Limit
		EP074: sec-Butylbenzene	135-98-8	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2.4-Trimethylbenzene	95-63-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: tert-Butylbenzene	98-06-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: p-Isopropyltoluene	99-87-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: n-Butylbenzene	104-51-8	5	µg/L	<5	<5	0.0	No Limit
ES2202156-001	Anonymous	EP074: Styrene	100-42-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: Isopropylbenzene	98-82-8	5	µg/L	<5	<5	0.0	No Limit
		EP074: n-Propylbenzene	103-65-1	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.3.5-Trimethylbenzene	108-67-8	5	µg/L	<5	<5	0.0	No Limit
		EP074: sec-Butylbenzene	135-98-8	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2.4-Trimethylbenzene	95-63-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: tert-Butylbenzene	98-06-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: p-Isopropyltoluene	99-87-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: n-Butylbenzene	104-51-8	5	µg/L	<5	<5	0.0	No Limit
EP074B: Oxygenated Compounds (QC Lot: 4137802)									
ES2201683-020	Anonymous	EP074: Vinyl Acetate	108-05-4	50	µg/L	<50	<50	0.0	No Limit
		EP074: 2-Butanone (MEK)	78-93-3	50	µg/L	<50	<50	0.0	No Limit
		EP074: 4-Methyl-2-pentanone (MIBK)	108-10-1	50	µg/L	<50	<50	0.0	No Limit
		EP074: 2-Hexanone (MBK)	591-78-6	50	µg/L	<50	<50	0.0	No Limit
ES2202156-001	Anonymous	EP074: Vinyl Acetate	108-05-4	50	µg/L	<50	<50	0.0	No Limit

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP074B: Oxygenated Compounds (QC Lot: 4137802) - continued									
ES2202156-001	Anonymous	EP074: 2-Butanone (MEK)	78-93-3	50	µg/L	<50	<50	0.0	No Limit
		EP074: 4-Methyl-2-pentanone (MIBK)	108-10-1	50	µg/L	<50	<50	0.0	No Limit
		EP074: 2-Hexanone (MBK)	591-78-6	50	µg/L	<50	<50	0.0	No Limit
EP074C: Sulfonated Compounds (QC Lot: 4137802)									
ES2201683-020	Anonymous	EP074: Carbon disulfide	75-15-0	5	µg/L	<5	<5	0.0	No Limit
ES2202156-001	Anonymous	EP074: Carbon disulfide	75-15-0	5	µg/L	<5	<5	0.0	No Limit
EP074D: Fumigants (QC Lot: 4137802)									
ES2201683-020	Anonymous	EP074: 2.2-Dichloropropane	594-20-7	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2-Dichloropropane	78-87-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: cis-1.3-Dichloropropylene	10061-01-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: trans-1.3-Dichloropropylene	10061-02-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2-Dibromoethane (EDB)	106-93-4	5	µg/L	<5	<5	0.0	No Limit
ES2202156-001	Anonymous	EP074: 2.2-Dichloropropane	594-20-7	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2-Dichloropropane	78-87-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: cis-1.3-Dichloropropylene	10061-01-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: trans-1.3-Dichloropropylene	10061-02-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2-Dibromoethane (EDB)	106-93-4	5	µg/L	<5	<5	0.0	No Limit
EP074E: Halogenated Aliphatic Compounds (QC Lot: 4137802)									
ES2201683-020	Anonymous	EP074: 1.1-Dichloroethene	75-35-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: Iodomethane	74-88-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: trans-1.2-Dichloroethene	156-60-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1-Dichloroethane	75-34-3	5	µg/L	<5	<5	0.0	No Limit
		EP074: cis-1.2-Dichloroethene	156-59-2	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1.1-Trichloroethane	71-55-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1-Dichloropropylene	563-58-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: Carbon Tetrachloride	56-23-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2-Dichloroethane	107-06-2	5	µg/L	<5	<5	0.0	No Limit
		EP074: Trichloroethene	79-01-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: Dibromomethane	74-95-3	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1.2-Trichloroethane	79-00-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.3-Dichloropropane	142-28-9	5	µg/L	<5	<5	0.0	No Limit
		EP074: Tetrachloroethene	127-18-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1.1.2-Tetrachloroethane	630-20-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: trans-1.4-Dichloro-2-butene	110-57-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: cis-1.4-Dichloro-2-butene	1476-11-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1.2.2-Tetrachloroethane	79-34-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2.3-Trichloropropane	96-18-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: Pentachloroethane	76-01-7	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2-Dibromo-3-chloropropane	96-12-8	5	µg/L	<5	<5	0.0	No Limit
		EP074: Dichlorodifluoromethane	75-71-8	50	µg/L	<50	<50	0.0	No Limit

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP074E: Halogenated Aliphatic Compounds (QC Lot: 4137802) - continued									
ES2201683-020	Anonymous	EP074: Chloromethane	74-87-3	50	µg/L	<50	<50	0.0	No Limit
		EP074: Vinyl chloride	75-01-4	50	µg/L	<50	<50	0.0	No Limit
		EP074: Bromomethane	74-83-9	50	µg/L	<50	<50	0.0	No Limit
		EP074: Chloroethane	75-00-3	50	µg/L	<50	<50	0.0	No Limit
		EP074: Trichlorofluoromethane	75-69-4	50	µg/L	<50	<50	0.0	No Limit
ES2202156-001	Anonymous	EP074: 1.1-Dichloroethene	75-35-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: Iodomethane	74-88-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: trans-1.2-Dichloroethene	156-60-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1-Dichloroethane	75-34-3	5	µg/L	<5	<5	0.0	No Limit
		EP074: cis-1.2-Dichloroethene	156-59-2	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1.1-Trichloroethane	71-55-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1-Dichloropropylene	563-58-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: Carbon Tetrachloride	56-23-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2-Dichloroethane	107-06-2	5	µg/L	<5	<5	0.0	No Limit
		EP074: Trichloroethene	79-01-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: Dibromomethane	74-95-3	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1.2-Trichloroethane	79-00-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.3-Dichloropropane	142-28-9	5	µg/L	<5	<5	0.0	No Limit
		EP074: Tetrachloroethene	127-18-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1.1.2-Tetrachloroethane	630-20-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: trans-1.4-Dichloro-2-butene	110-57-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: cis-1.4-Dichloro-2-butene	1476-11-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1.2.2-Tetrachloroethane	79-34-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2.3-Trichloropropane	96-18-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: Pentachloroethane	76-01-7	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2-Dibromo-3-chloropropane	96-12-8	5	µg/L	<5	<5	0.0	No Limit
		EP074: Dichlorodifluoromethane	75-71-8	50	µg/L	<50	<50	0.0	No Limit
		EP074: Chloromethane	74-87-3	50	µg/L	<50	<50	0.0	No Limit
		EP074: Vinyl chloride	75-01-4	50	µg/L	<50	<50	0.0	No Limit
		EP074: Bromomethane	74-83-9	50	µg/L	<50	<50	0.0	No Limit
		EP074: Chloroethane	75-00-3	50	µg/L	<50	<50	0.0	No Limit
		EP074: Trichlorofluoromethane	75-69-4	50	µg/L	<50	<50	0.0	No Limit
EP074F: Halogenated Aromatic Compounds (QC Lot: 4137802)									
ES2201683-020	Anonymous	EP074: Chlorobenzene	108-90-7	5	µg/L	<5	<5	0.0	No Limit
		EP074: Bromobenzene	108-86-1	5	µg/L	<5	<5	0.0	No Limit
		EP074: 2-Chlorotoluene	95-49-8	5	µg/L	<5	<5	0.0	No Limit
		EP074: 4-Chlorotoluene	106-43-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2.3-Trichlorobenzene	87-61-6	5	µg/L	<5	<5	0.0	No Limit
ES2202156-001	Anonymous	EP074: Chlorobenzene	108-90-7	5	µg/L	<5	<5	0.0	No Limit
		EP074: Bromobenzene	108-86-1	5	µg/L	<5	<5	0.0	No Limit

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP074F: Halogenated Aromatic Compounds (QC Lot: 4137802) - continued									
ES2202156-001	Anonymous	EP074: 2-Chlorotoluene	95-49-8	5	µg/L	<5	<5	0.0	No Limit
		EP074: 4-Chlorotoluene	106-43-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2.3-Trichlorobenzene	87-61-6	5	µg/L	<5	<5	0.0	No Limit
EP074G: Trihalomethanes (QC Lot: 4137802)									
ES2201683-020	Anonymous	EP074: Chloroform	67-66-3	5	µg/L	<5	<5	0.0	No Limit
		EP074: Bromodichloromethane	75-27-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: Dibromochloromethane	124-48-1	5	µg/L	<5	<5	0.0	No Limit
		EP074: Bromoform	75-25-2	5	µg/L	<5	<5	0.0	No Limit
ES2202156-001	Anonymous	EP074: Chloroform	67-66-3	5	µg/L	<5	<5	0.0	No Limit
		EP074: Bromodichloromethane	75-27-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: Dibromochloromethane	124-48-1	5	µg/L	<5	<5	0.0	No Limit
		EP074: Bromoform	75-25-2	5	µg/L	<5	<5	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4137803)									
ES2201683-020	Anonymous	EP080: C6 - C9 Fraction	----	20	µg/L	<20	<20	0.0	No Limit
ES2202156-001	Anonymous	EP080: C6 - C9 Fraction	----	20	µg/L	<20	<20	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4137803)									
ES2201683-020	Anonymous	EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	<20	0.0	No Limit
ES2202156-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	<20	0.0	No Limit
EP080: BTEXN (QC Lot: 4137803)									
ES2201683-020	Anonymous	EP080: Benzene	71-43-2	1	µg/L	<1	<1	0.0	No Limit
		EP080: Toluene	108-88-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	2	µg/L	<2	<2	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	2	µg/L	<2	<2	0.0	No Limit
		EP080: Naphthalene	91-20-3	5	µg/L	<5	<5	0.0	No Limit
ES2202156-001	Anonymous	EP080: Benzene	71-43-2	1	µg/L	<1	<1	0.0	No Limit
		EP080: Toluene	108-88-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	2	µg/L	<2	<2	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	2	µg/L	<2	<2	0.0	No Limit
		EP080: Naphthalene	91-20-3	5	µg/L	<5	<5	0.0	No Limit
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 4137474)									
ES2201941-001	Anonymous	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	0.05	0.05	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	0.11	0.10	0.0	0% - 50%
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 4137474) - continued									
ES2201941-001	Anonymous	EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
ES2202142-003	Anonymous	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	0.18	0.18	0.0	0% - 50%
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	0.68	0.64	5.6	0% - 20%
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	0.02	<0.02	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4137474)									
ES2201941-001	Anonymous	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	0.0	No Limit
ES2202142-003	Anonymous	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	0.04	0.04	0.0	No Limit
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	0.04	0.03	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	0.08	0.08	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	0.0	No Limit
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4137474)									
ES2201941-001	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4137474) - continued									
ES2201941-001	Anonymous	EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
ES2202142-003	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4137474)									
ES2201941-001	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	0.0	No Limit
ES2202142-003	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231P: PFAS Sums (QC Lot: 4137474)									
ES2201941-001	Anonymous	EP231X: Sum of PFAS	----	0.01	µg/L	0.16	0.15	6.5	0% - 50%
ES2202142-003	Anonymous	EP231X: Sum of PFAS	----	0.01	µg/L	1.04	0.97	7.0	0% - 20%

Method Blank (MB) and Laboratory Control Sample (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Sample (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

Sub-Matrix: **WATER**

				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EA015: Total Dissolved Solids dried at 180 ± 5 °C (QCLot: 4136430)								
EA015H: Total Dissolved Solids @180°C	----	10	mg/L	<10	2000 mg/L	104	87.0	109
				<10	293 mg/L	116	75.2	126
				<10	2835 mg/L	106	83.0	124
ED037P: Alkalinity by PC Titrator (QCLot: 4137312)								
ED037-P: Total Alkalinity as CaCO3	----	----	mg/L	----	200 mg/L	103	81.0	111
				----	50 mg/L	120	80.0	120
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA (QCLot: 4137505)								
ED041G: Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	<1	25 mg/L	104	82.0	122
				<1	500 mg/L	110	82.0	122
ED045G: Chloride by Discrete Analyser (QCLot: 4137508)								
ED045G: Chloride	16887-00-6	1	mg/L	<1	50 mg/L	93.6	80.9	127
				<1	1000 mg/L	106	80.9	127
ED093F: Dissolved Major Cations (QCLot: 4139030)								
ED093F: Calcium	7440-70-2	1	mg/L	<1	50 mg/L	95.4	80.0	114
ED093F: Magnesium	7439-95-4	1	mg/L	<1	50 mg/L	98.3	90.0	116
ED093F: Sodium	7440-23-5	1	mg/L	<1	50 mg/L	94.9	82.0	120
ED093F: Potassium	7440-09-7	1	mg/L	<1	50 mg/L	94.6	85.0	113
EG020F: Dissolved Metals by ICP-MS (QCLot: 4139027)								
EG020A-F: Arsenic	7440-38-2	0.001	mg/L	<0.001	0.1 mg/L	89.2	85.0	114
EG020A-F: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	0.1 mg/L	96.0	84.0	110
EG020A-F: Chromium	7440-47-3	0.001	mg/L	<0.001	0.1 mg/L	97.1	85.0	111
EG020A-F: Copper	7440-50-8	0.001	mg/L	<0.001	0.1 mg/L	89.0	81.0	111
EG020A-F: Lead	7439-92-1	0.001	mg/L	<0.001	0.1 mg/L	93.9	83.0	111
EG020A-F: Nickel	7440-02-0	0.001	mg/L	<0.001	0.1 mg/L	87.0	82.0	112
EG020A-F: Zinc	7440-66-6	0.005	mg/L	<0.005	0.1 mg/L	87.5	81.0	117
EG020T: Total Metals by ICP-MS (QCLot: 4139064)								
EG020A-T: Arsenic	7440-38-2	0.001	mg/L	<0.001	0.1 mg/L	100	82.0	114
EG020A-T: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	0.1 mg/L	95.9	84.0	112
EG020A-T: Chromium	7440-47-3	0.001	mg/L	<0.001	0.1 mg/L	96.2	86.0	116
EG020A-T: Copper	7440-50-8	0.001	mg/L	<0.001	0.1 mg/L	99.0	83.0	118
EG020A-T: Lead	7439-92-1	0.001	mg/L	<0.001	0.1 mg/L	97.2	85.0	115
EG020A-T: Nickel	7440-02-0	0.001	mg/L	<0.001	0.1 mg/L	99.7	84.0	116
EG020A-T: Zinc	7440-66-6	0.005	mg/L	<0.005	0.1 mg/L	96.9	79.0	117
EG035F: Dissolved Mercury by FIMS (QCLot: 4139028)								

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EG035F: Dissolved Mercury by FIMS (QCLot: 4139028) - continued								
EG035F: Mercury	7439-97-6	0.0001	mg/L	<0.0001	0.01 mg/L	102	83.0	105
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4139154)								
EG035T: Mercury	7439-97-6	0.0001	mg/L	<0.0001	0.01 mg/L	101	77.0	111
EK055G: Ammonia as N by Discrete Analyser (QCLot: 4136962)								
EK055G: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	1 mg/L	103	90.0	114
EK057G: Nitrite as N by Discrete Analyser (QCLot: 4137507)								
EK057G: Nitrite as N	14797-65-0	0.01	mg/L	<0.01	0.5 mg/L	103	82.0	114
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QCLot: 4136963)								
EK059G: Nitrite + Nitrate as N	----	0.01	mg/L	<0.01	0.5 mg/L	101	91.0	113
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser (QCLot: 4136959)								
EK061G: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	<0.1	10 mg/L	89.4	69.0	101
				<0.1	1 mg/L	109	70.0	118
				<0.1	5 mg/L	95.9	70.0	130
EK067G: Total Phosphorus as P by Discrete Analyser (QCLot: 4136958)								
EK067G: Total Phosphorus as P	----	0.01	mg/L	<0.01	4.42 mg/L	91.1	71.0	101
				<0.01	0.442 mg/L	# 109	72.0	108
				<0.01	1 mg/L	96.7	70.0	130
EK071G: Reactive Phosphorus as P by discrete analyser (QCLot: 4137506)								
EK071G: Reactive Phosphorus as P	14265-44-2	0.01	mg/L	<0.01	0.5 mg/L	109	85.0	117
EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 4137802)								
EP074: Styrene	100-42-5	5	µg/L	<5	10 µg/L	93.9	73.0	119
EP074: Isopropylbenzene	98-82-8	5	µg/L	<5	10 µg/L	93.4	76.0	118
EP074: n-Propylbenzene	103-65-1	5	µg/L	<5	10 µg/L	91.3	69.0	119
EP074: 1.3.5-Trimethylbenzene	108-67-8	5	µg/L	<5	10 µg/L	91.2	74.0	116
EP074: sec-Butylbenzene	135-98-8	5	µg/L	<5	10 µg/L	90.9	73.0	119
EP074: 1.2.4-Trimethylbenzene	95-63-6	5	µg/L	<5	10 µg/L	93.4	74.0	116
EP074: tert-Butylbenzene	98-06-6	5	µg/L	<5	10 µg/L	89.7	72.0	116
EP074: p-Isopropyltoluene	99-87-6	5	µg/L	<5	10 µg/L	91.8	71.0	119
EP074: n-Butylbenzene	104-51-8	5	µg/L	<5	10 µg/L	95.1	65.0	123
EP074B: Oxygenated Compounds (QCLot: 4137802)								
EP074: Vinyl Acetate	108-05-4	50	µg/L	<50	100 µg/L	93.5	61.4	134
EP074: 2-Butanone (MEK)	78-93-3	50	µg/L	<50	100 µg/L	97.8	73.6	130
EP074: 4-Methyl-2-pentanone (MIBK)	108-10-1	50	µg/L	<50	100 µg/L	104	66.0	132
EP074: 2-Hexanone (MBK)	591-78-6	50	µg/L	<50	100 µg/L	102	65.0	137
EP074C: Sulfonated Compounds (QCLot: 4137802)								
EP074: Carbon disulfide	75-15-0	5	µg/L	<5	10 µg/L	96.2	72.8	127
EP074D: Fumigants (QCLot: 4137802)								

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP074D: Fumigants (QCLot: 4137802) - continued								
EP074: 2.2-Dichloropropane	594-20-7	5	µg/L	<5	10 µg/L	90.5	68.0	122
EP074: 1.2-Dichloropropane	78-87-5	5	µg/L	<5	10 µg/L	93.4	76.0	118
EP074: cis-1.3-Dichloropropylene	10061-01-5	5	µg/L	<5	10 µg/L	94.6	62.0	120
EP074: trans-1.3-Dichloropropylene	10061-02-6	5	µg/L	<5	10 µg/L	97.8	60.0	114
EP074: 1.2-Dibromoethane (EDB)	106-93-4	5	µg/L	<5	10 µg/L	103	69.0	117
EP074E: Halogenated Aliphatic Compounds (QCLot: 4137802)								
EP074: Dichlorodifluoromethane	75-71-8	50	µg/L	<50	100 µg/L	81.1	60.6	138
EP074: Chloromethane	74-87-3	50	µg/L	<50	100 µg/L	86.1	67.4	130
EP074: Vinyl chloride	75-01-4	50	µg/L	<50	100 µg/L	77.3	69.4	129
EP074: Bromomethane	74-83-9	50	µg/L	<50	100 µg/L	96.3	56.0	140
EP074: Chloroethane	75-00-3	50	µg/L	<50	100 µg/L	89.0	61.0	139
EP074: Trichlorofluoromethane	75-69-4	50	µg/L	<50	100 µg/L	91.1	69.0	131
EP074: 1.1-Dichloroethene	75-35-4	5	µg/L	<5	10 µg/L	91.4	70.0	124
EP074: Iodomethane	74-88-4	5	µg/L	<5	10 µg/L	70.9	70.2	128
EP074: trans-1.2-Dichloroethene	156-60-5	5	µg/L	<5	10 µg/L	82.4	74.0	118
EP074: 1.1-Dichloroethane	75-34-3	5	µg/L	<5	10 µg/L	79.9	74.0	120
EP074: cis-1.2-Dichloroethene	156-59-2	5	µg/L	<5	10 µg/L	82.7	77.0	119
EP074: 1.1.1-Trichloroethane	71-55-6	5	µg/L	<5	10 µg/L	90.3	67.0	119
EP074: 1.1-Dichloropropylene	563-58-6	5	µg/L	<5	10 µg/L	89.5	73.0	119
EP074: Carbon Tetrachloride	56-23-5	5	µg/L	<5	10 µg/L	90.6	62.0	120
EP074: 1.2-Dichloroethane	107-06-2	5	µg/L	<5	10 µg/L	94.1	73.0	123
EP074: Trichloroethene	79-01-6	5	µg/L	<5	10 µg/L	90.6	76.0	118
EP074: Dibromomethane	74-95-3	5	µg/L	<5	10 µg/L	97.2	73.0	119
EP074: 1.1.2-Trichloroethane	79-00-5	5	µg/L	<5	10 µg/L	104	72.0	126
EP074: 1.3-Dichloropropane	142-28-9	5	µg/L	<5	10 µg/L	103	71.0	129
EP074: Tetrachloroethene	127-18-4	5	µg/L	<5	10 µg/L	91.6	72.0	124
EP074: 1.1.1.2-Tetrachloroethane	630-20-6	5	µg/L	<5	10 µg/L	99.4	66.0	114
EP074: trans-1.4-Dichloro-2-butene	110-57-6	5	µg/L	<5	10 µg/L	108	60.0	120
EP074: cis-1.4-Dichloro-2-butene	1476-11-5	5	µg/L	<5	10 µg/L	105	70.6	128
EP074: 1.1.2.2-Tetrachloroethane	79-34-5	5	µg/L	<5	10 µg/L	108	70.0	124
EP074: 1.2.3-Trichloropropane	96-18-4	5	µg/L	<5	10 µg/L	111	74.0	126
EP074: Pentachloroethane	76-01-7	5	µg/L	<5	10 µg/L	112	71.8	126
EP074: 1.2-Dibromo-3-chloropropane	96-12-8	5	µg/L	<5	10 µg/L	102	66.4	136
EP074F: Halogenated Aromatic Compounds (QCLot: 4137802)								
EP074: Chlorobenzene	108-90-7	5	µg/L	<5	10 µg/L	99.9	79.0	117
EP074: Bromobenzene	108-86-1	5	µg/L	<5	10 µg/L	101	76.0	116
EP074: 2-Chlorotoluene	95-49-8	5	µg/L	<5	10 µg/L	94.2	73.0	119
EP074: 4-Chlorotoluene	106-43-4	5	µg/L	<5	10 µg/L	97.2	73.0	119
EP074: 1.2.3-Trichlorobenzene	87-61-6	5	µg/L	<5	10 µg/L	108	67.0	123

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP074G: Trihalomethanes (QCLot: 4137802)								
EP074: Chloroform	67-66-3	5	µg/L	<5	10 µg/L	91.9	72.0	120
EP074: Bromodichloromethane	75-27-4	5	µg/L	<5	10 µg/L	94.3	64.0	118
EP074: Dibromochloromethane	124-48-1	5	µg/L	<5	10 µg/L	105	65.0	115
EP074: Bromoform	75-25-2	5	µg/L	<5	10 µg/L	111	73.5	126
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 4136769)								
EP075(SIM): Naphthalene	91-20-3	1	µg/L	<1.0	5 µg/L	71.8	50.0	94.0
EP075(SIM): Acenaphthylene	208-96-8	1	µg/L	<1.0	5 µg/L	66.6	63.6	114
EP075(SIM): Acenaphthene	83-32-9	1	µg/L	<1.0	5 µg/L	70.4	62.2	113
EP075(SIM): Fluorene	86-73-7	1	µg/L	<1.0	5 µg/L	76.6	63.9	115
EP075(SIM): Phenanthrene	85-01-8	1	µg/L	<1.0	5 µg/L	69.0	62.6	116
EP075(SIM): Anthracene	120-12-7	1	µg/L	<1.0	5 µg/L	90.0	64.3	116
EP075(SIM): Fluoranthene	206-44-0	1	µg/L	<1.0	5 µg/L	84.4	63.6	118
EP075(SIM): Pyrene	129-00-0	1	µg/L	<1.0	5 µg/L	84.4	63.1	118
EP075(SIM): Benz(a)anthracene	56-55-3	1	µg/L	<1.0	5 µg/L	71.2	64.1	117
EP075(SIM): Chrysene	218-01-9	1	µg/L	<1.0	5 µg/L	72.5	62.5	116
EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	1	µg/L	<1.0	5 µg/L	67.6	61.7	119
EP075(SIM): Benzo(k)fluoranthene	207-08-9	1	µg/L	<1.0	5 µg/L	84.9	63.0	115
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	µg/L	<0.5	5 µg/L	68.2	63.3	117
EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	1	µg/L	<1.0	5 µg/L	73.0	59.9	118
EP075(SIM): Dibenz(a.h)anthracene	53-70-3	1	µg/L	<1.0	5 µg/L	72.4	61.2	117
EP075(SIM): Benzo(g.h.i)perylene	191-24-2	1	µg/L	<1.0	5 µg/L	80.5	59.1	118
EP075A: Phenolic Compounds (QCLot: 4136770)								
EP075: Phenol	108-95-2	2	µg/L	<2	10 µg/L	31.4	25.5	64.1
EP075: 2-Chlorophenol	95-57-8	2	µg/L	<2	10 µg/L	59.3	52.0	88.0
EP075: 2-Methylphenol	95-48-7	2	µg/L	<2	10 µg/L	65.0	50.0	94.0
EP075: 3- & 4-Methylphenol	1319-77-3	2	µg/L	<2	10 µg/L	58.5	45.0	96.2
EP075: 2-Nitrophenol	88-75-5	2	µg/L	<2	10 µg/L	66.1	48.0	98.0
EP075: 2.4-Dimethylphenol	105-67-9	2	µg/L	<2	10 µg/L	59.1	50.0	94.0
EP075: 2.4-Dichlorophenol	120-83-2	2	µg/L	<2	10 µg/L	70.0	61.9	109
EP075: 2.6-Dichlorophenol	87-65-0	2	µg/L	<2	10 µg/L	67.4	61.5	108
EP075: 4-Chloro-3-methylphenol	59-50-7	2	µg/L	<2	10 µg/L	72.2	61.4	107
EP075: 2.4.6-Trichlorophenol	88-06-2	2	µg/L	<2	10 µg/L	72.2	57.6	112
EP075: 2.4.5-Trichlorophenol	95-95-4	2	µg/L	<2	10 µg/L	76.1	58.0	110
EP075: Pentachlorophenol	87-86-5	4	µg/L	<4	20 µg/L	66.2	12.8	95.0
EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 4136770)								
EP075: Naphthalene	91-20-3	2	µg/L	<2	10 µg/L	61.1	51.0	95.0
EP075: 2-Methylnaphthalene	91-57-6	2	µg/L	<2	10 µg/L	62.4	59.0	108

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 4136770) - continued								
EP075: 2-Chloronaphthalene	91-58-7	2	µg/L	<2	10 µg/L	# 59.4	60.6	106
EP075: Acenaphthylene	208-96-8	2	µg/L	<2	10 µg/L	69.2	64.0	108
EP075: Acenaphthene	83-32-9	2	µg/L	<2	10 µg/L	67.5	65.0	108
EP075: Fluorene	86-73-7	2	µg/L	<2	10 µg/L	73.6	65.2	107
EP075: Phenanthrene	85-01-8	2	µg/L	<2	10 µg/L	82.9	66.7	108
EP075: Anthracene	120-12-7	2	µg/L	<2	10 µg/L	86.5	65.8	108
EP075: Fluoranthene	206-44-0	2	µg/L	<2	10 µg/L	91.9	64.9	109
EP075: Pyrene	129-00-0	2	µg/L	<2	10 µg/L	93.7	60.1	111
EP075: N-2-Fluorenyl Acetamide	53-96-3	2	µg/L	<2	10 µg/L	104	59.7	110
EP075: Benz(a)anthracene	56-55-3	2	µg/L	<2	10 µg/L	94.4	62.2	112
EP075: Chrysene	218-01-9	2	µg/L	<2	10 µg/L	95.4	59.3	114
EP075: Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	4	µg/L	<4	20 µg/L	96.4	60.1	111
EP075: 7.12-Dimethylbenz(a)anthracene	57-97-6	2	µg/L	<2	10 µg/L	59.2	50.0	108
EP075: Benzo(a)pyrene	50-32-8	2	µg/L	<2	10 µg/L	96.0	59.2	112
EP075: 3-Methylcholanthrene	56-49-5	2	µg/L	<2	10 µg/L	63.8	60.1	110
EP075: Indeno(1.2.3.cd)pyrene	193-39-5	2	µg/L	<2	10 µg/L	92.3	59.6	110
EP075: Dibenz(a.h)anthracene	53-70-3	2	µg/L	<2	10 µg/L	92.4	57.2	109
EP075: Benzo(g.h.i)perylene	191-24-2	2	µg/L	<2	10 µg/L	91.6	60.6	110
EP075: Benzo(a)pyrene TEQ (zero)	----	2	µg/L	<2	----	----	----	----
EP075C: Phthalate Esters (QCLot: 4136770)								
EP075: Dimethyl phthalate	131-11-3	2	µg/L	<2	10 µg/L	76.9	64.3	112
EP075: Diethyl phthalate	84-66-2	2	µg/L	<2	10 µg/L	82.9	67.3	111
EP075: Di-n-butyl phthalate	84-74-2	2	µg/L	<2	10 µg/L	97.7	68.4	122
EP075: Butyl benzyl phthalate	85-68-7	2	µg/L	<2	10 µg/L	97.4	61.2	114
EP075: bis(2-ethylhexyl) phthalate	117-81-7	----	µg/L	----	10 µg/L	106	60.0	132
EP075: Di-n-octylphthalate	117-84-0	2	µg/L	<2	10 µg/L	96.7	62.1	115
EP075D: Nitrosamines (QCLot: 4136770)								
EP075: N-Nitrosomethylethylamine	10595-95-6	2	µg/L	<2	10 µg/L	50.1	46.0	110
EP075: N-Nitrosodiethylamine	55-18-5	2	µg/L	<2	10 µg/L	89.6	60.6	113
EP075: N-Nitrosopyrrolidine	930-55-2	4	µg/L	<4	10 µg/L	55.1	45.0	91.0
EP075: N-Nitrosomorpholine	59-89-2	2	µg/L	<2	10 µg/L	50.1	42.0	100
EP075: N-Nitrosodi-n-propylamine	621-64-7	2	µg/L	<2	10 µg/L	68.0	63.5	108
EP075: N-Nitrosopiperidine	100-75-4	2	µg/L	<2	10 µg/L	68.1	61.7	107
EP075: N-Nitrosodibutylamine	924-16-3	2	µg/L	<2	10 µg/L	103	62.5	108
EP075: N-Nitrosodiphenyl & Diphenylamine	86-30-6 122-39-4	4	µg/L	<4	20 µg/L	82.4	64.6	112
EP075: Methapyrilene	91-80-5	2	µg/L	<2	10 µg/L	33.8	23.3	125
EP075E: Nitroaromatics and Ketones (QCLot: 4136770)								

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP075E: Nitroaromatics and Ketones (QCLot: 4136770) - continued								
EP075: 2-Picoline	109-06-8	2	µg/L	<2	10 µg/L	46.6	41.0	109
EP075: Acetophenone	98-86-2	2	µg/L	<2	10 µg/L	72.8	68.3	112
EP075: Nitrobenzene	98-95-3	2	µg/L	<2	10 µg/L	76.7	68.3	112
EP075: Isophorone	78-59-1	2	µg/L	<2	10 µg/L	69.5	67.6	111
EP075: 2.6-Dinitrotoluene	606-20-2	4	µg/L	<4	10 µg/L	74.6	64.4	113
EP075: 2.4-Dinitrotoluene	121-14-2	4	µg/L	<4	10 µg/L	82.9	59.5	109
EP075: 1-Naphthylamine	134-32-7	2	µg/L	<2	10 µg/L	# 116	46.8	102
EP075: 4-Nitroquinoline-N-oxide	56-57-5	2	µg/L	<2	10 µg/L	95.8	40.0	96.0
EP075: 5-Nitro-o-toluidine	99-55-8	2	µg/L	<2	10 µg/L	87.6	58.3	106
EP075: Azobenzene	103-33-3	2	µg/L	<2	10 µg/L	77.5	66.0	112
EP075: 1.3.5-Trinitrobenzene	99-35-4	2	µg/L	<2	10 µg/L	88.1	46.0	108
EP075: Phenacetin	62-44-2	2	µg/L	<2	10 µg/L	# 103	57.8	101
EP075: 4-Aminobiphenyl	92-67-1	2	µg/L	<2	10 µg/L	110	60.1	112
EP075: Pentachloronitrobenzene	82-68-8	2	µg/L	<2	10 µg/L	87.2	59.0	109
EP075: Pronamide	23950-58-5	2	µg/L	<2	10 µg/L	104	62.7	109
EP075: Dimethylaminoazobenzene	60-11-7	2	µg/L	<2	10 µg/L	97.2	59.4	108
EP075: Chlorobenzilate	510-15-6	2	µg/L	<2	10 µg/L	95.9	57.7	110
EP075F: Haloethers (QCLot: 4136770)								
EP075: Bis(2-chloroethyl) ether	111-44-4	2	µg/L	<2	10 µg/L	# 59.9	69.1	112
EP075: Bis(2-chloroethoxy) methane	111-91-1	2	µg/L	<2	10 µg/L	68.9	66.2	111
EP075: 4-Chlorophenyl phenyl ether	7005-72-3	2	µg/L	<2	10 µg/L	73.4	64.7	109
EP075: 4-Bromophenyl phenyl ether	101-55-3	2	µg/L	<2	10 µg/L	77.4	61.6	108
EP075G: Chlorinated Hydrocarbons (QCLot: 4136770)								
EP075: 1.4-Dichlorobenzene	106-46-7	2	µg/L	<2	10 µg/L	55.1	41.0	97.0
EP075: 1.3-Dichlorobenzene	541-73-1	2	µg/L	<2	10 µg/L	56.0	40.0	96.0
EP075: 1.2-Dichlorobenzene	95-50-1	2	µg/L	<2	10 µg/L	57.1	41.0	95.0
EP075: Hexachloroethane	67-72-1	2	µg/L	<2	10 µg/L	56.4	46.0	88.0
EP075: 1.2.4-Trichlorobenzene	120-82-1	2	µg/L	<2	10 µg/L	59.0	46.0	96.0
EP075: Hexachloropropylene	1888-71-7	2	µg/L	<2	10 µg/L	58.1	34.0	96.0
EP075: Hexachlorobutadiene	87-68-3	2	µg/L	<2	10 µg/L	57.5	37.4	100
EP075: Hexachlorocyclopentadiene	77-47-4	10	µg/L	<10	10 µg/L	58.5	23.5	107
EP075: Pentachlorobenzene	608-93-5	2	µg/L	<2	10 µg/L	65.4	64.5	107
EP075: Hexachlorobenzene (HCB)	118-74-1	4	µg/L	<4	10 µg/L	76.9	65.7	110
EP075H: Anilines and Benzidines (QCLot: 4136770)								
EP075: Aniline	62-53-3	2	µg/L	<2	10 µg/L	60.1	50.0	104
EP075: 4-Chloroaniline	106-47-8	2	µg/L	<2	10 µg/L	64.2	42.0	106
EP075: 2-Nitroaniline	88-74-4	4	µg/L	<4	10 µg/L	73.2	60.9	110
EP075: 3-Nitroaniline	99-09-2	4	µg/L	<4	10 µg/L	81.9	51.5	96.9

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP075H: Anilines and Benzidines (QCLot: 4136770) - continued								
EP075: Dibenzofuran	132-64-9	2	µg/L	<2	10 µg/L	68.4	65.3	108
EP075: 4-Nitroaniline	100-01-6	2	µg/L	<2	10 µg/L	96.3	48.9	99.5
EP075: Carbazole	86-74-8	2	µg/L	<2	10 µg/L	94.5	64.3	107
EP075: 3.3`-Dichlorobenzidine	91-94-1	2	µg/L	<2	10 µg/L	109	60.3	119
EP075I: Organochlorine Pesticides (QCLot: 4136770)								
EP075: alpha-BHC	319-84-6	2	µg/L	<2	10 µg/L	81.2	64.3	110
EP075: beta-BHC	319-85-7	2	µg/L	<2	10 µg/L	92.7	53.0	107
EP075: gamma-BHC	58-89-9	2	µg/L	<2	10 µg/L	85.3	51.0	111
EP075: delta-BHC	319-86-8	2	µg/L	<2	10 µg/L	90.6	57.0	111
EP075: Heptachlor	76-44-8	2	µg/L	<2	10 µg/L	83.5	57.9	108
EP075: Aldrin	309-00-2	2	µg/L	<2	10 µg/L	84.3	56.0	112
EP075: Heptachlor epoxide	1024-57-3	2	µg/L	<2	10 µg/L	91.9	50.0	118
EP075: alpha-Endosulfan	959-98-8	2	µg/L	<2	10 µg/L	92.0	59.0	111
EP075: 4.4`-DDE	72-55-9	2	µg/L	<2	10 µg/L	93.4	53.0	115
EP075: Dieldrin	60-57-1	2	µg/L	<2	10 µg/L	93.8	59.0	115
EP075: Endrin	72-20-8	2	µg/L	<2	10 µg/L	93.3	58.0	114
EP075: beta-Endosulfan	33213-65-9	2	µg/L	<2	10 µg/L	94.9	54.0	116
EP075: 4.4`-DDD	72-54-8	2	µg/L	<2	10 µg/L	95.9	55.0	115
EP075: Endosulfan sulfate	1031-07-8	2	µg/L	<2	10 µg/L	100	52.8	114
EP075: 4.4`-DDT	50-29-3	4	µg/L	<4	10 µg/L	95.9	56.0	114
EP075: Sum of Aldrin + Dieldrin	309-00-2/60-57-1	4	µg/L	<4	----	----	----	----
EP075: Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	4	µg/L	<4	----	----	----	----
EP075J: Organophosphorus Pesticides (QCLot: 4136770)								
EP075: Dichlorvos	62-73-7	2	µg/L	<2	10 µg/L	73.6	51.0	113
EP075: Dimethoate	60-51-5	2	µg/L	<2	10 µg/L	89.2	43.0	109
EP075: Diazinon	333-41-5	2	µg/L	<2	10 µg/L	90.8	49.0	113
EP075: Chlorpyrifos-methyl	5598-13-0	2	µg/L	<2	10 µg/L	92.5	54.1	116
EP075: Malathion	121-75-5	2	µg/L	<2	10 µg/L	103	54.0	124
EP075: Fenthion	55-38-9	2	µg/L	<2	10 µg/L	96.1	57.0	115
EP075: Chlorpyrifos	2921-88-2	2	µg/L	<2	10 µg/L	94.0	53.0	109
EP075: Pirimphos-ethyl	23505-41-1	2	µg/L	<2	10 µg/L	93.4	55.0	111
EP075: Chlorfenvinphos	470-90-6	2	µg/L	<2	10 µg/L	89.2	50.0	116
EP075: Prothiofos	34643-46-4	2	µg/L	<2	10 µg/L	95.6	54.0	118
EP075: Ethion	563-12-2	2	µg/L	<2	10 µg/L	99.5	51.0	117
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4136768)								
EP071: C10 - C14 Fraction	----	50	µg/L	<50	400 µg/L	76.2	55.8	112

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4136768) - continued								
EP071: C15 - C28 Fraction	----	100	µg/L	<100	600 µg/L	75.8	71.6	113
EP071: C29 - C36 Fraction	----	50	µg/L	<50	400 µg/L	85.8	56.0	121
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4137803)								
EP080: C6 - C9 Fraction	----	20	µg/L	<20	260 µg/L	92.3	75.0	127
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4136768)								
EP071: >C10 - C16 Fraction	----	100	µg/L	<100	500 µg/L	69.3	57.9	119
EP071: >C16 - C34 Fraction	----	100	µg/L	<100	700 µg/L	72.6	62.5	110
EP071: >C34 - C40 Fraction	----	100	µg/L	<100	300 µg/L	77.0	61.5	121
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4137803)								
EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	310 µg/L	94.9	75.0	127
EP080: BTEXN (QCLot: 4137803)								
EP080: Benzene	71-43-2	1	µg/L	<1	10 µg/L	94.1	70.0	122
EP080: Toluene	108-88-3	2	µg/L	<2	10 µg/L	104	69.0	123
EP080: Ethylbenzene	100-41-4	2	µg/L	<2	10 µg/L	99.7	70.0	120
EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	10 µg/L	98.6	69.0	121
EP080: ortho-Xylene	95-47-6	2	µg/L	<2	10 µg/L	102	72.0	122
EP080: Naphthalene	91-20-3	5	µg/L	<5	10 µg/L	108	70.0	120
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4137434)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	0.25 µg/L	90.8	72.0	130
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	0.25 µg/L	82.4	71.0	127
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.25 µg/L	84.2	68.0	131
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	0.25 µg/L	80.4	69.0	134
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.25 µg/L	84.2	65.0	140
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	0.25 µg/L	80.6	53.0	142
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4137474)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	0.25 µg/L	88.0	72.0	130
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	0.25 µg/L	78.8	71.0	127
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.25 µg/L	80.8	68.0	131
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	0.25 µg/L	84.0	69.0	134
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.25 µg/L	83.6	65.0	140
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	0.25 µg/L	88.8	53.0	142
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4137434)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	1.25 µg/L	81.5	73.0	129
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	0.25 µg/L	90.4	72.0	129
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.25 µg/L	112	72.0	129
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	0.25 µg/L	94.2	72.0	130
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	0.25 µg/L	94.2	71.0	133

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4137434) - continued								
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	0.25 µg/L	89.6	69.0	130
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	0.25 µg/L	92.4	71.0	129
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	0.25 µg/L	99.8	69.0	133
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	0.25 µg/L	94.8	72.0	134
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	0.25 µg/L	89.2	65.0	144
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	0.625 µg/L	99.0	71.0	132
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4137474)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	1.25 µg/L	81.5	73.0	129
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	0.25 µg/L	77.8	72.0	129
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.25 µg/L	92.8	72.0	129
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	0.25 µg/L	78.8	72.0	130
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	0.25 µg/L	82.4	71.0	133
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	0.25 µg/L	78.6	69.0	130
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	0.25 µg/L	79.2	71.0	129
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	0.25 µg/L	89.4	69.0	133
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	0.25 µg/L	87.8	72.0	134
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	0.25 µg/L	79.2	65.0	144
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	0.625 µg/L	86.6	71.0	132
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4137434)								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	0.25 µg/L	95.0	67.0	137
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	0.625 µg/L	108	68.0	141
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	0.625 µg/L	103	62.6	147
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	0.625 µg/L	103	66.0	145
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	0.625 µg/L	100	57.6	145
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	0.25 µg/L	83.0	65.0	136
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.25 µg/L	90.6	61.0	135
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4137474)								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	0.25 µg/L	85.6	67.0	137
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	0.625 µg/L	82.8	68.0	141
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	0.625 µg/L	85.5	62.6	147
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	0.625 µg/L	86.8	66.0	145
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	0.625 µg/L	86.4	57.6	145

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	LCS: Spike Recovery (%)	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4137474) - continued								
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	0.25 µg/L	85.2	65.0	136
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.25 µg/L	81.8	61.0	135
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4137434)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.25 µg/L	95.6	63.0	143
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	0.25 µg/L	73.0	64.0	140
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	0.25 µg/L	79.4	67.0	138
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	0.25 µg/L	90.6	71.4	144
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4137474)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.25 µg/L	77.0	63.0	143
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	0.25 µg/L	81.0	64.0	140
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	0.25 µg/L	81.2	67.0	138
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	0.25 µg/L	85.0	71.4	144

Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

Sub-Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	SpikeRecovery(%): MS	Acceptable Limits (%): Low	Acceptable Limits (%): High
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA (QCLot: 4137505)							
ES2202021-001	Anonymous	ED041G: Sulfate as SO4 - Turbidimetric	14808-79-8	10 mg/L	# Not Determined	70.0	130
ED045G: Chloride by Discrete Analyser (QCLot: 4137508)							
ES2202047-012	BUR_BH125	ED045G: Chloride	16887-00-6	50 mg/L	# Not Determined	70.0	130
EG020F: Dissolved Metals by ICP-MS (QCLot: 4139027)							
ES2201966-005	Anonymous	EG020A-F: Arsenic	7440-38-2	1 mg/L	83.2	70.0	130
		EG020A-F: Cadmium	7440-43-9	0.25 mg/L	86.0	70.0	130
		EG020A-F: Chromium	7440-47-3	1 mg/L	99.7	70.0	130
		EG020A-F: Copper	7440-50-8	1 mg/L	85.7	70.0	130
		EG020A-F: Lead	7439-92-1	1 mg/L	82.0	70.0	130
		EG020A-F: Nickel	7440-02-0	1 mg/L	87.0	70.0	130
		EG020A-F: Zinc	7440-66-6	1 mg/L	87.2	70.0	130
EG020T: Total Metals by ICP-MS (QCLot: 4139064)							
ES2201683-035	Anonymous	EG020A-T: Arsenic	7440-38-2	1 mg/L	101	70.0	130

Sub-Matrix: **WATER**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EG020T: Total Metals by ICP-MS (QCLot: 4139064) - continued							
ES2201683-035	Anonymous	EG020A-T: Cadmium	7440-43-9	0.25 mg/L	99.7	70.0	130
		EG020A-T: Chromium	7440-47-3	1 mg/L	102	70.0	130
		EG020A-T: Copper	7440-50-8	1 mg/L	102	70.0	130
		EG020A-T: Lead	7439-92-1	1 mg/L	101	70.0	130
		EG020A-T: Nickel	7440-02-0	1 mg/L	100	70.0	130
		EG020A-T: Zinc	7440-66-6	1 mg/L	100	70.0	130
EG035F: Dissolved Mercury by FIMS (QCLot: 4139028)							
ES2201942-001	Anonymous	EG035F: Mercury	7439-97-6	0.01 mg/L	# 40.6	70.0	130
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4139154)							
ES2201969-003	Anonymous	EG035T: Mercury	7439-97-6	0.01 mg/L	96.2	70.0	130
EK055G: Ammonia as N by Discrete Analyser (QCLot: 4136962)							
ES2201979-001	Anonymous	EK055G: Ammonia as N	7664-41-7	1 mg/L	# Not Determined	70.0	130
EK057G: Nitrite as N by Discrete Analyser (QCLot: 4137507)							
ES2202047-012	BUR_BH125	EK057G: Nitrite as N	14797-65-0	0.5 mg/L	109	70.0	130
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QCLot: 4136963)							
ES2201979-001	Anonymous	EK059G: Nitrite + Nitrate as N	----	0.5 mg/L	94.4	70.0	130
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser (QCLot: 4136959)							
ES2201979-002	Anonymous	EK061G: Total Kjeldahl Nitrogen as N	----	100 mg/L	94.0	70.0	130
EK067G: Total Phosphorus as P by Discrete Analyser (QCLot: 4136958)							
ES2201979-002	Anonymous	EK067G: Total Phosphorus as P	----	20 mg/L	97.9	70.0	130
EK071G: Reactive Phosphorus as P by discrete analyser (QCLot: 4137506)							
ES2202047-012	BUR_BH125	EK071G: Reactive Phosphorus as P	14265-44-2	0.5 mg/L	112	70.0	130
EP074E: Halogenated Aliphatic Compounds (QCLot: 4137802)							
ES2201683-020	Anonymous	EP074: 1.1-Dichloroethene	75-35-4	25 µg/L	118	70.0	130
		EP074: Trichloroethene	79-01-6	25 µg/L	103	70.0	130
EP074F: Halogenated Aromatic Compounds (QCLot: 4137802)							
ES2201683-020	Anonymous	EP074: Chlorobenzene	108-90-7	25 µg/L	108	70.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4137803)							
ES2201683-020	Anonymous	EP080: C6 - C9 Fraction	----	325 µg/L	108	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4137803)							
ES2201683-020	Anonymous	EP080: C6 - C10 Fraction	C6_C10	375 µg/L	109	70.0	130
EP080: BTEXN (QCLot: 4137803)							
ES2201683-020	Anonymous	EP080: Benzene	71-43-2	25 µg/L	102	70.0	130

Sub-Matrix: **WATER**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP080: BTEXN (QCLot: 4137803) - continued							
ES2201683-020	Anonymous	EP080: Toluene	108-88-3	25 µg/L	108	70.0	130
		EP080: Ethylbenzene	100-41-4	25 µg/L	111	70.0	130
		EP080: meta- & para-Xylene	108-38-3 106-42-3	25 µg/L	113	70.0	130
		EP080: ortho-Xylene	95-47-6	25 µg/L	117	70.0	130
		EP080: Naphthalene	91-20-3	25 µg/L	108	70.0	130
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4137474)							
ES2202142-003	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.25 µg/L	106	72.0	130
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.25 µg/L	90.0	71.0	127
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.25 µg/L	79.0	68.0	131
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.25 µg/L	99.8	69.0	134
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.25 µg/L	106	65.0	140
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.25 µg/L	101	53.0	142
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4137474)							
ES2202142-003	Anonymous	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	1.25 µg/L	76.8	73.0	129
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.25 µg/L	85.2	72.0	129
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.25 µg/L	111	72.0	129
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.25 µg/L	91.4	72.0	130
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.25 µg/L	80.2	71.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.25 µg/L	87.4	69.0	130
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.25 µg/L	86.6	71.0	129
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.25 µg/L	98.6	69.0	133
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.25 µg/L	103	72.0	134
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.25 µg/L	81.2	65.0	144
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.625 µg/L	93.0	71.0	132
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4137474)							
ES2202142-003	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.25 µg/L	87.8	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.625 µg/L	97.0	68.0	141
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.625 µg/L	93.4	62.6	147
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.625 µg/L	99.2	66.0	145
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.625 µg/L	99.8	57.6	145
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.25 µg/L	87.0	65.0	136
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.25 µg/L	84.4	61.0	135

Sub-Matrix: **WATER**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*Concentration*	*MS*	*Low*	*High*
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4137474)							
ES2202142-003	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.25 µg/L	87.2	63.0	143
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.25 µg/L	90.2	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.25 µg/L	88.6	67.0	138
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.25 µg/L	114	71.4	144

QA/QC Compliance Assessment to assist with Quality Review

Work Order	: **ES2202047**	Page	: 1 of 15
Client	: **ENVIRONMENTAL RESOURCES MANAGEMENT (ERM)**	Laboratory	: Environmental Division Sydney
Contact	: NICHOLAS GRBICH	Telephone	: +61-2-8784 8555
Project	: 0628507	Date Samples Received	: 21-Jan-2022
Site	: ----	Issue Date	: 01-Feb-2022
Sampler	: TAJ MONDON	No. of samples received	: 24
Order number	: ----	No. of samples analysed	: 23

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers : Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- **NO Method Blank value outliers occur.**
- **NO Duplicate outliers occur.**
- **Laboratory Control outliers exist - please see following pages for full details.**
- **Matrix Spike outliers exist - please see following pages for full details.**
- **For all regular sample matrices, NO surrogate recovery outliers occur.**

Outliers : Analysis Holding Time Compliance

- **Analysis Holding Time Outliers exist - please see following pages for full details.**

Outliers : Frequency of Quality Control Samples

- **Quality Control Sample Frequency Outliers exist - please see following pages for full details.**

Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **WATER**

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Laboratory Control Spike (LCS) Recoveries							
EK067G: Total Phosphorus as P by Discrete Analyser	QC-MRG2-41369580	----	**Total Phosphorus as P**	----	109 %	72.0-108%	**Recovery greater than upper control limit**
EP075B: Polynuclear Aromatic Hydrocarbons	QC-4136770-002	----	**2-Chloronaphthalene**	91-58-7	59.4 %	60.6-106%	**Recovery less than lower control limit**
EP075E: Nitroaromatics and Ketones	QC-4136770-002	----	**1-Naphthylamine**	134-32-7	116 %	46.8-102%	**Recovery greater than upper control limit**
EP075E: Nitroaromatics and Ketones	QC-4136770-002	----	**Phenacetin**	62-44-2	103 %	57.8-101%	**Recovery greater than upper control limit**
EP075F: Haloethers	QC-4136770-002	----	**Bis(2-chloroethyl) ether**	111-44-4	59.9 %	69.1-112%	**Recovery less than lower control limit**
Matrix Spike (MS) Recoveries							
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA	ES2202021--001	Anonymous	**Sulfate as SO4 - Turbidimetric**	14808-79-8	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**
ED045G: Chloride by Discrete Analyser	ES2202047--012	BUR_BH125	**Chloride**	16887-00-6	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**
EG035F: Dissolved Mercury by FIMS	ES2201942--001	Anonymous	**Mercury**	7439-97-6	40.6 %	70.0-130%	**Recovery less than lower data quality objective**
EK055G: Ammonia as N by Discrete Analyser	ES2201979--001	Anonymous	**Ammonia as N**	7664-41-7	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**

Outliers : Analysis Holding Time Compliance

Matrix: **WATER**

Method / Container / Client Sample ID(s)	Extraction / Preparation			Analysis		
	Date extracted	Due for extraction	Days overdue	Date analysed	Due for analysis	Days overdue
EK057G: Nitrite as N by Discrete Analyser						
Clear Plastic Bottle - Natural						
BUR_BH125	----	----	----	25-Jan-2022	23-Jan-2022	**2**
EK071G: Reactive Phosphorus as P by discrete analyser						
Clear Plastic Bottle - Natural						
BUR_BH125	----	----	----	25-Jan-2022	23-Jan-2022	**2**
EP080/071: Total Petroleum Hydrocarbons						
Amber VOC Vial - Sulfuric Acid						
TRIP BLANK	28-Jan-2022	27-Jan-2022	**1**	28-Jan-2022	27-Jan-2022	**1**
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions						
Amber VOC Vial - Sulfuric Acid						
TRIP BLANK	28-Jan-2022	27-Jan-2022	**1**	28-Jan-2022	27-Jan-2022	**1**
EP080: BTEXN						

Matrix: **WATER**

Method / Container / Client Sample ID(s)	Extraction / Preparation: Date extracted	Extraction / Preparation: Due for extraction	Extraction / Preparation: Days overdue	Analysis: Date analysed	Analysis: Due for analysis	Analysis: Days overdue
EP080: BTEXN - Analysis Holding Time Compliance						
Amber VOC Vial - Sulfuric Acid						
TRIP SPIKE, TRIP BLANK	28-Jan-2022	27-Jan-2022	**1**	28-Jan-2022	27-Jan-2022	**1**

Outliers : Frequency of Quality Control Samples

Matrix: **WATER**

Quality Control Sample Type / Method	Count: QC	Count: Regular	Rate (%): Actual	Rate (%): Expected	Quality Control Specification
Laboratory Duplicates (DUP)					
Ammonia as N by Discrete analyser	1	19	5.26	10.00	NEPM 2013 B3 & ALS QC Standard
Nitrite and Nitrate as N (NOx) by Discrete Analyser	1	17	5.88	10.00	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (GC/MS - SIM)	0	6	0.00	10.00	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	2	31	6.45	10.00	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds	0	2	0.00	10.00	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	0	7	0.00	10.00	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)					
PAH/Phenols (GC/MS - SIM)	0	6	0.00	5.00	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	1	31	3.23	5.00	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds	0	2	0.00	5.00	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	0	7	0.00	5.00	NEPM 2013 B3 & ALS QC Standard

Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for ***VOC in soils*** vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation: Date extracted	Extraction / Preparation: Due for extraction	Extraction / Preparation: Evaluation	Analysis: Date analysed	Analysis: Due for analysis	Analysis: Evaluation
EA015: Total Dissolved Solids dried at 180 ± 5 °C							
Clear Plastic Bottle - Natural (EA015H)							
BUR_BH125	**21-Jan-2022**	**----**	----	----	**25-Jan-2022**	28-Jan-2022	✓
ED037P: Alkalinity by PC Titrator							
Clear Plastic Bottle - Natural (ED037-P)							
BUR_BH125	**21-Jan-2022**	**----**	----	----	**25-Jan-2022**	04-Feb-2022	✓
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA							
Clear Plastic Bottle - Natural (ED041G)							
BUR_BH125	**21-Jan-2022**	**----**	----	----	**25-Jan-2022**	18-Feb-2022	✓

Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
ED045G: Chloride by Discrete Analyser							
Clear Plastic Bottle - Natural (ED045G)							
BUR_BH125	**21-Jan-2022**	**----**	----	----	**25-Jan-2022**	18-Feb-2022	✓
ED093F: Dissolved Major Cations							
Clear Plastic Bottle - Nitric Acid; Filtered (ED093F)							
BUR_BH125	**21-Jan-2022**	**----**	----	----	**27-Jan-2022**	18-Feb-2022	✓
EG020F: Dissolved Metals by ICP-MS							
Clear Plastic Bottle - Nitric Acid; Filtered (EG020A-F)							
BUR_BH125	**21-Jan-2022**	**----**	----	----	**27-Jan-2022**	20-Jul-2022	✓
EG020T: Total Metals by ICP-MS							
Clear Plastic Bottle - Nitric Acid; Unfiltered (EG020A-T)							
R01_220121	**21-Jan-2022**	**27-Jan-2022**	20-Jul-2022	✓	**27-Jan-2022**	20-Jul-2022	✓
EG035F: Dissolved Mercury by FIMS							
Clear Plastic Bottle - Nitric Acid; Filtered (EG035F)							
BUR_BH125	**21-Jan-2022**	**----**	----	----	**28-Jan-2022**	18-Feb-2022	✓
EG035T: Total Recoverable Mercury by FIMS							
Clear Plastic Bottle - Nitric Acid; Unfiltered (EG035T)							
R01_220121	**21-Jan-2022**	**----**	----	----	**28-Jan-2022**	18-Feb-2022	✓
EK055G: Ammonia as N by Discrete Analyser							
Clear Plastic Bottle - Sulfuric Acid (EK055G)							
BUR_BH125, R01_220121	**21-Jan-2022**	**----**	----	----	**25-Jan-2022**	18-Feb-2022	✓
EK057G: Nitrite as N by Discrete Analyser							
Clear Plastic Bottle - Natural (EK057G)							
BUR_BH125	**21-Jan-2022**	**----**	----	----	**25-Jan-2022**	23-Jan-2022	×
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser							
Clear Plastic Bottle - Sulfuric Acid (EK059G)							
BUR_BH125, R01_220121	**21-Jan-2022**	**----**	----	----	**25-Jan-2022**	18-Feb-2022	✓
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser							
Clear Plastic Bottle - Sulfuric Acid (EK061G)							
BUR_BH125, R01_220121	**21-Jan-2022**	**25-Jan-2022**	18-Feb-2022	✓	**25-Jan-2022**	18-Feb-2022	✓
EK067G: Total Phosphorus as P by Discrete Analyser							
Clear Plastic Bottle - Sulfuric Acid (EK067G)							
BUR_BH125, R01_220121	**21-Jan-2022**	**25-Jan-2022**	18-Feb-2022	✓	**25-Jan-2022**	18-Feb-2022	✓
EK071G: Reactive Phosphorus as P by discrete analyser							
Clear Plastic Bottle - Natural (EK071G)							
BUR_BH125	**21-Jan-2022**	**----**	----	----	**25-Jan-2022**	23-Jan-2022	×
EP074A: Monocyclic Aromatic Hydrocarbons							
Amber VOC Vial - Sulfuric Acid (EP074)							
BUR_BH125, R01_220121	**21-Jan-2022**	**28-Jan-2022**	04-Feb-2022	✓	**28-Jan-2022**	04-Feb-2022	✓

Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)		Sample Date	Extraction / Preparation			Analysis		
			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP074B: Oxygenated Compounds								
Amber VOC Vial - Sulfuric Acid (EP074)								
BUR_BH125,	R01_220121	**21-Jan-2022**	**28-Jan-2022**	04-Feb-2022	✓	**28-Jan-2022**	04-Feb-2022	✓
EP074C: Sulfonated Compounds								
Amber VOC Vial - Sulfuric Acid (EP074)								
BUR_BH125,	R01_220121	**21-Jan-2022**	**28-Jan-2022**	04-Feb-2022	✓	**28-Jan-2022**	04-Feb-2022	✓
EP074D: Fumigants								
Amber VOC Vial - Sulfuric Acid (EP074)								
BUR_BH125,	R01_220121	**21-Jan-2022**	**28-Jan-2022**	04-Feb-2022	✓	**28-Jan-2022**	04-Feb-2022	✓
EP074E: Halogenated Aliphatic Compounds								
Amber VOC Vial - Sulfuric Acid (EP074)								
BUR_BH125,	R01_220121	**21-Jan-2022**	**28-Jan-2022**	04-Feb-2022	✓	**28-Jan-2022**	04-Feb-2022	✓
EP074F: Halogenated Aromatic Compounds								
Amber VOC Vial - Sulfuric Acid (EP074)								
BUR_BH125,	R01_220121	**21-Jan-2022**	**28-Jan-2022**	04-Feb-2022	✓	**28-Jan-2022**	04-Feb-2022	✓
EP074G: Trihalomethanes								
Amber VOC Vial - Sulfuric Acid (EP074)								
BUR_BH125,	R01_220121	**21-Jan-2022**	**28-Jan-2022**	04-Feb-2022	✓	**28-Jan-2022**	04-Feb-2022	✓
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Amber Glass Bottle - Unpreserved (EP075(SIM))								
BUR_BH125,	R01_220121	**21-Jan-2022**	**25-Jan-2022**	28-Jan-2022	✓	**28-Jan-2022**	06-Mar-2022	✓
EP075A: Phenolic Compounds								
Amber Glass Bottle - Unpreserved (EP075)								
BUR_BH125,	R01_220121	**21-Jan-2022**	**25-Jan-2022**	28-Jan-2022	✓	**28-Jan-2022**	06-Mar-2022	✓
EP075B: Polynuclear Aromatic Hydrocarbons								
Amber Glass Bottle - Unpreserved (EP075)								
BUR_BH125,	R01_220121	**21-Jan-2022**	**25-Jan-2022**	28-Jan-2022	✓	**28-Jan-2022**	06-Mar-2022	✓
EP075C: Phthalate Esters								
Amber Glass Bottle - Unpreserved (EP075)								
BUR_BH125,	R01_220121	**21-Jan-2022**	**25-Jan-2022**	28-Jan-2022	✓	**28-Jan-2022**	06-Mar-2022	✓
EP075D: Nitrosamines								
Amber Glass Bottle - Unpreserved (EP075)								
BUR_BH125,	R01_220121	**21-Jan-2022**	**25-Jan-2022**	28-Jan-2022	✓	**28-Jan-2022**	06-Mar-2022	✓
EP075E: Nitroaromatics and Ketones								
Amber Glass Bottle - Unpreserved (EP075)								
BUR_BH125,	R01_220121	**21-Jan-2022**	**25-Jan-2022**	28-Jan-2022	✓	**28-Jan-2022**	06-Mar-2022	✓
EP075F: Haloethers								
Amber Glass Bottle - Unpreserved (EP075)								
BUR_BH125,	R01_220121	**21-Jan-2022**	**25-Jan-2022**	28-Jan-2022	✓	**28-Jan-2022**	06-Mar-2022	✓

Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)		Sample Date	Extraction / Preparation			Analysis		
			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP075G: Chlorinated Hydrocarbons								
Amber Glass Bottle - Unpreserved (EP075)								
BUR_BH125,	R01_220121	**21-Jan-2022**	**25-Jan-2022**	28-Jan-2022	✓	**28-Jan-2022**	06-Mar-2022	✓
EP075H: Anilines and Benzidines								
Amber Glass Bottle - Unpreserved (EP075)								
BUR_BH125,	R01_220121	**21-Jan-2022**	**25-Jan-2022**	28-Jan-2022	✓	**28-Jan-2022**	06-Mar-2022	✓
EP075I: Organochlorine Pesticides								
Amber Glass Bottle - Unpreserved (EP075)								
BUR_BH125,	R01_220121	**21-Jan-2022**	**25-Jan-2022**	28-Jan-2022	✓	**28-Jan-2022**	06-Mar-2022	✓
EP075J: Organophosphorus Pesticides								
Amber Glass Bottle - Unpreserved (EP075)								
BUR_BH125,	R01_220121	**21-Jan-2022**	**25-Jan-2022**	28-Jan-2022	✓	**28-Jan-2022**	06-Mar-2022	✓
EP080/071: Total Petroleum Hydrocarbons								
Amber Glass Bottle - Unpreserved (EP071)								
BUR_BH125,	R01_220121	**21-Jan-2022**	**25-Jan-2022**	28-Jan-2022	✓	**28-Jan-2022**	06-Mar-2022	✓
Amber VOC Vial - Sulfuric Acid (EP080)								
TRIP BLANK		**13-Jan-2022**	**28-Jan-2022**	27-Jan-2022	×	**28-Jan-2022**	27-Jan-2022	×
Amber VOC Vial - Sulfuric Acid (EP080)								
BUR_BH125,	R01_220121	**21-Jan-2022**	**28-Jan-2022**	04-Feb-2022	✓	**28-Jan-2022**	04-Feb-2022	✓
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
Amber Glass Bottle - Unpreserved (EP071)								
BUR_BH125,	R01_220121	**21-Jan-2022**	**25-Jan-2022**	28-Jan-2022	✓	**28-Jan-2022**	06-Mar-2022	✓
Amber VOC Vial - Sulfuric Acid (EP080)								
TRIP BLANK		**13-Jan-2022**	**28-Jan-2022**	27-Jan-2022	×	**28-Jan-2022**	27-Jan-2022	×
Amber VOC Vial - Sulfuric Acid (EP080)								
BUR_BH125,	R01_220121	**21-Jan-2022**	**28-Jan-2022**	04-Feb-2022	✓	**28-Jan-2022**	04-Feb-2022	✓
EP080: BTEXN								
Amber VOC Vial - Sulfuric Acid (EP080)								
TRIP SPIKE,	TRIP BLANK	**13-Jan-2022**	**28-Jan-2022**	27-Jan-2022	×	**28-Jan-2022**	27-Jan-2022	×
Amber VOC Vial - Sulfuric Acid (EP080)								
BUR_BH125,	R01_220121	**21-Jan-2022**	**28-Jan-2022**	04-Feb-2022	✓	**28-Jan-2022**	04-Feb-2022	✓

Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP231A: Perfluoroalkyl Sulfonic Acids							
HDPE (no PTFE) (EP231X) R01_220117	**17-Jan-2022**	**25-Jan-2022**	16-Jul-2022	✓	**27-Jan-2022**	16-Jul-2022	✓
HDPE (no PTFE) (EP231X) SMW_BH051, SMW_BH035, SMW_BH035_S, R01_220118	**18-Jan-2022**	**25-Jan-2022**	17-Jul-2022	✓	**27-Jan-2022**	17-Jul-2022	✓
HDPE (no PTFE) (EP231X) D01_220119, T01_220119, SMW_BH120, SMW_BH019, R01_220119, SMW_BH038	**19-Jan-2022**	**25-Jan-2022**	18-Jul-2022	✓	**27-Jan-2022**	18-Jul-2022	✓
HDPE (no PTFE) (EP231X) S51, S54, S02_d, S06, S40_d, S40_S, BUR_MW108, R01_220120	**20-Jan-2022**	**25-Jan-2022**	19-Jul-2022	✓	**27-Jan-2022**	19-Jul-2022	✓
HDPE (no PTFE) (EP231X) BUR_BH125, R01_220121	**21-Jan-2022**	**25-Jan-2022**	20-Jul-2022	✓	**27-Jan-2022**	20-Jul-2022	✓
EP231B: Perfluoroalkyl Carboxylic Acids							
HDPE (no PTFE) (EP231X) R01_220117	**17-Jan-2022**	**25-Jan-2022**	16-Jul-2022	✓	**27-Jan-2022**	16-Jul-2022	✓
HDPE (no PTFE) (EP231X) SMW_BH051, SMW_BH035, SMW_BH035_S, R01_220118	**18-Jan-2022**	**25-Jan-2022**	17-Jul-2022	✓	**27-Jan-2022**	17-Jul-2022	✓
HDPE (no PTFE) (EP231X) D01_220119, T01_220119, SMW_BH120, SMW_BH019, R01_220119, SMW_BH038	**19-Jan-2022**	**25-Jan-2022**	18-Jul-2022	✓	**27-Jan-2022**	18-Jul-2022	✓
HDPE (no PTFE) (EP231X) S51, S54, S02_d, S06, S40_d, S40_S, BUR_MW108, R01_220120	**20-Jan-2022**	**25-Jan-2022**	19-Jul-2022	✓	**27-Jan-2022**	19-Jul-2022	✓
HDPE (no PTFE) (EP231X) BUR_BH125, R01_220121	**21-Jan-2022**	**25-Jan-2022**	20-Jul-2022	✓	**27-Jan-2022**	20-Jul-2022	✓

Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP231C: Perfluoroalkyl Sulfonamides							
HDPE (no PTFE) (EP231X) R01_220117	**17-Jan-2022**	**25-Jan-2022**	16-Jul-2022	✓	**27-Jan-2022**	16-Jul-2022	✓
HDPE (no PTFE) (EP231X) SMW_BH051, SMW_BH035, SMW_BH035_S, R01_220118	**18-Jan-2022**	**25-Jan-2022**	17-Jul-2022	✓	**27-Jan-2022**	17-Jul-2022	✓
HDPE (no PTFE) (EP231X) D01_220119, T01_220119, SMW_BH120, SMW_BH019, R01_220119, SMW_BH038	**19-Jan-2022**	**25-Jan-2022**	18-Jul-2022	✓	**27-Jan-2022**	18-Jul-2022	✓
HDPE (no PTFE) (EP231X) S51, S54, S02_d, S06, S40_d, S40_S, BUR_MW108, R01_220120	**20-Jan-2022**	**25-Jan-2022**	19-Jul-2022	✓	**27-Jan-2022**	19-Jul-2022	✓
HDPE (no PTFE) (EP231X) BUR_BH125, R01_220121	**21-Jan-2022**	**25-Jan-2022**	20-Jul-2022	✓	**27-Jan-2022**	20-Jul-2022	✓
EP231D: (n:2) Fluorotelomer Sulfonic Acids							
HDPE (no PTFE) (EP231X) R01_220117	**17-Jan-2022**	**25-Jan-2022**	16-Jul-2022	✓	**27-Jan-2022**	16-Jul-2022	✓
HDPE (no PTFE) (EP231X) SMW_BH051, SMW_BH035, SMW_BH035_S, R01_220118	**18-Jan-2022**	**25-Jan-2022**	17-Jul-2022	✓	**27-Jan-2022**	17-Jul-2022	✓
HDPE (no PTFE) (EP231X) D01_220119, T01_220119, SMW_BH120, SMW_BH019, R01_220119, SMW_BH038	**19-Jan-2022**	**25-Jan-2022**	18-Jul-2022	✓	**27-Jan-2022**	18-Jul-2022	✓
HDPE (no PTFE) (EP231X) S51, S54, S02_d, S06, S40_d, S40_S, BUR_MW108, R01_220120	**20-Jan-2022**	**25-Jan-2022**	19-Jul-2022	✓	**27-Jan-2022**	19-Jul-2022	✓
HDPE (no PTFE) (EP231X) BUR_BH125, R01_220121	**21-Jan-2022**	**25-Jan-2022**	20-Jul-2022	✓	**27-Jan-2022**	20-Jul-2022	✓

Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP231P: PFAS Sums							
HDPE (no PTFE) (EP231X)							
R01_220117	**17-Jan-2022**	**25-Jan-2022**	16-Jul-2022	✓	**27-Jan-2022**	16-Jul-2022	✓
HDPE (no PTFE) (EP231X)							
SMW_BH051, SMW_BH035, SMW_BH035_S, R01_220118	**18-Jan-2022**	**25-Jan-2022**	17-Jul-2022	✓	**27-Jan-2022**	17-Jul-2022	✓
HDPE (no PTFE) (EP231X)							
D01_220119, T01_220119, SMW_BH120, SMW_BH019, R01_220119, SMW_BH038	**19-Jan-2022**	**25-Jan-2022**	18-Jul-2022	✓	**27-Jan-2022**	18-Jul-2022	✓
HDPE (no PTFE) (EP231X)							
S51, S54, S02_d, S06, S40_d, S40_S, BUR_MW108, R01_220120	**20-Jan-2022**	**25-Jan-2022**	19-Jul-2022	✓	**27-Jan-2022**	19-Jul-2022	✓
HDPE (no PTFE) (EP231X)							
BUR_BH125, R01_220121	**21-Jan-2022**	**25-Jan-2022**	20-Jul-2022	✓	**27-Jan-2022**	20-Jul-2022	✓

Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(were) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

Matrix: **WATER**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Laboratory Duplicates (DUP)							
Alkalinity by PC Titrator	ED037-P	2	17	**11.76**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Ammonia as N by Discrete analyser	EK055G	1	19	**5.26**	**10.00**	×	NEPM 2013 B3 & ALS QC Standard
Chloride by Discrete Analyser	ED045G	2	11	**18.18**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Mercury by FIMS	EG035F	2	17	**11.76**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Metals by ICP-MS - Suite A	EG020A-F	2	18	**11.11**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Major Cations - Dissolved	ED093F	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	1	17	**5.88**	**10.00**	×	NEPM 2013 B3 & ALS QC Standard
Nitrite as N by Discrete Analyser	EK057G	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	0	6	**0.00**	**10.00**	×	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	2	31	**6.45**	**10.00**	×	NEPM 2013 B3 & ALS QC Standard
Reactive Phosphorus as P-By Discrete Analyser	EK071G	1	4	**25.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds	EP075	0	2	**0.00**	**10.00**	×	NEPM 2013 B3 & ALS QC Standard
Sulfate (Turbidimetric) as SO4 2- by Discrete Analyser	ED041G	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Dissolved Solids (High Level)	EA015H	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Kjeldahl Nitrogen as N By Discrete Analyser	EK061G	2	17	**11.76**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-MS - Suite A	EG020A-T	2	15	**13.33**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Phosphorus as P By Discrete Analyser	EK067G	2	19	**10.53**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	0	7	**0.00**	**10.00**	×	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	2	17	**11.76**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds	EP074	2	16	**12.50**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Alkalinity by PC Titrator	ED037-P	2	17	**11.76**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Ammonia as N by Discrete analyser	EK055G	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Chloride by Discrete Analyser	ED045G	2	11	**18.18**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Mercury by FIMS	EG035F	1	17	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Metals by ICP-MS - Suite A	EG020A-F	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Major Cations - Dissolved	ED093F	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	1	17	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite as N by Discrete Analyser	EK057G	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	1	6	**16.67**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	2	31	**6.45**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Reactive Phosphorus as P-By Discrete Analyser	EK071G	1	4	**25.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds	EP075	1	2	**50.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Sulfate (Turbidimetric) as SO4 2- by Discrete Analyser	ED041G	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Dissolved Solids (High Level)	EA015H	3	20	**15.00**	**15.00**	✓	NEPM 2013 B3 & ALS QC Standard

Matrix: **WATER**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Laboratory Control Samples (LCS) - Continued							
Total Kjeldahl Nitrogen as N By Discrete Analyser	EK061G	3	17	**17.65**	**15.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-MS - Suite A	EG020A-T	1	15	**6.67**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Phosphorus as P By Discrete Analyser	EK067G	3	19	**15.79**	**15.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	7	**14.29**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	17	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds	EP074	1	16	**6.25**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Ammonia as N by Discrete analyser	EK055G	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Chloride by Discrete Analyser	ED045G	1	11	**9.09**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Mercury by FIMS	EG035F	1	17	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Metals by ICP-MS - Suite A	EG020A-F	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Major Cations - Dissolved	ED093F	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	1	17	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite as N by Discrete Analyser	EK057G	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	1	6	**16.67**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	2	31	**6.45**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Reactive Phosphorus as P-By Discrete Analyser	EK071G	1	4	**25.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds	EP075	1	2	**50.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Sulfate (Turbidimetric) as SO4 2- by Discrete Analyser	ED041G	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Dissolved Solids (High Level)	EA015H	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Kjeldahl Nitrogen as N By Discrete Analyser	EK061G	1	17	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-MS - Suite A	EG020A-T	1	15	**6.67**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Phosphorus as P By Discrete Analyser	EK067G	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	7	**14.29**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	17	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds	EP074	1	16	**6.25**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Ammonia as N by Discrete analyser	EK055G	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Chloride by Discrete Analyser	ED045G	1	11	**9.09**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Mercury by FIMS	EG035F	1	17	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Metals by ICP-MS - Suite A	EG020A-F	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	1	17	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite as N by Discrete Analyser	EK057G	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	0	6	**0.00**	**5.00**	×	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	31	**3.23**	**5.00**	×	NEPM 2013 B3 & ALS QC Standard
Reactive Phosphorus as P-By Discrete Analyser	EK071G	1	4	**25.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds	EP075	0	2	**0.00**	**5.00**	×	NEPM 2013 B3 & ALS QC Standard
Sulfate (Turbidimetric) as SO4 2- by Discrete Analyser	ED041G	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard

Matrix: **WATER**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Matrix Spikes (MS) - Continued							
Total Kjeldahl Nitrogen as N By Discrete Analyser	EK061G	1	17	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-MS - Suite A	EG020A-T	1	15	**6.67**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Phosphorus as P By Discrete Analyser	EK067G	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	0	7	**0.00**	**5.00**	×	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	17	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds	EP074	1	16	**6.25**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard

Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
Total Dissolved Solids (High Level)	EA015H	WATER	In house: Referenced to APHA 2540C. A gravimetric procedure that determines the amount of `filterable` residue in an aqueous sample. A well-mixed sample is filtered through a glass fibre filter (1.2um). The filtrate is evaporated to dryness and dried to constant weight at 180+/-5C. This method is compliant with NEPM Schedule B(3)
Alkalinity by PC Titrator	ED037-P	WATER	In house: Referenced to APHA 2320 B This procedure determines alkalinity by automated measurement (e.g. PC Titrate) on a settled supernatant aliquot of the sample using pH 4.5 for indicating the total alkalinity end-point. This method is compliant with NEPM Schedule B(3)
Sulfate (Turbidimetric) as SO4 2- by Discrete Analyser	ED041G	WATER	In house: Referenced to APHA 4500-SO4. Dissolved sulfate is determined in a 0.45um filtered sample. Sulfate ions are converted to a barium sulfate suspension in an acetic acid medium with barium chloride. Light absorbance of the BaSO4 suspension is measured by a photometer and the SO4-2 concentration is determined by comparison of the reading with a standard curve. This method is compliant with NEPM Schedule B(3)
Chloride by Discrete Analyser	ED045G	WATER	In house: Referenced to APHA 4500 Cl - G.The thiocyanate ion is liberated from mercuric thiocyanate through sequestration of mercury by the chloride ion to form non-ionised mercuric chloride.in the presence of ferric ions the librated thiocynate forms highly-coloured ferric thiocynate which is measured at 480 nm APHA seal method 2 017-1-L
Major Cations - Dissolved	ED093F	WATER	In house: Referenced to APHA 3120 and 3125; USEPA SW 846 - 6010 and 6020; Cations are determined by either ICP-AES or ICP-MS techniques. This method is compliant with NEPM Schedule B(3) Sodium Adsorption Ratio is calculated from Ca, Mg and Na which determined by ALS in house method QWI-EN/ED093F. This method is compliant with NEPM Schedule B(3) Hardness parameters are calculated based on APHA 2340 B. This method is compliant with NEPM Schedule B(3)
Dissolved Metals by ICP-MS - Suite A	EG020A-F	WATER	In house: Referenced to APHA 3125; USEPA SW846 - 6020, ALS QWI-EN/EG020. Samples are 0.45µm filtered prior to analysis. The ICPMS technique utilizes a highly efficient argon plasma to ionize selected elements. Ions are then passed into a high vacuum mass spectrometer, which separates the analytes based on their distinct mass to charge ratios prior to their measurement by a discrete dynode ion detector.
Total Metals by ICP-MS - Suite A	EG020A-T	WATER	In house: Referenced to APHA 3125; USEPA SW846 - 6020, ALS QWI-EN/EG020. The ICPMS technique utilizes a highly efficient argon plasma to ionize selected elements. Ions are then passed into a high vacuum mass spectrometer, which separates the analytes based on their distinct mass to charge ratios prior to their measurement by a discrete dynode ion detector.
Dissolved Mercury by FIMS	EG035F	WATER	In house: Referenced to APHA 3112 Hg - B (Flow-injection (SnCl2)(Cold Vapour generation) AAS) Samples are 0.45µm filtered prior to analysis. FIM-AAS is an automated flameless atomic absorption technique. A bromate/bromide reagent is used to oxidise any organic mercury compounds in the filtered sample. The ionic mercury is reduced online to atomic mercury vapour by SnCl2 which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM Schedule B(3).

Analytical Methods	Method	Matrix	Method Descriptions
Total Mercury by FIMS	EG035T	WATER	In house: Referenced to APHA 3112 Hg - B (Flow-injection (SnCl2)(Cold Vapour generation) AAS) FIM-AAS is an automated flameless atomic absorption technique. A bromate/bromide reagent is used to oxidise any organic mercury compounds in the unfiltered sample. The ionic mercury is reduced online to atomic mercury vapour by SnCl2 which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM Schedule B(3).
Ammonia as N by Discrete analyser	EK055G	WATER	In house: Referenced to APHA 4500-NH3 G Ammonia is determined by direct colorimetry by Discrete Analyser. This method is compliant with NEPM Schedule B(3)
Nitrite as N by Discrete Analyser	EK057G	WATER	In house: Referenced to APHA 4500-NO2- B. Nitrite is determined by direct colourimetry by Discrete Analyser. This method is compliant with NEPM Schedule B(3)
Nitrate as N by Discrete Analyser	EK058G	WATER	In house: Referenced to APHA 4500-NO3- F. Nitrate is reduced to nitrite by way of a chemical reduction followed by quantification by Discrete Analyser. Nitrite is determined seperately by direct colourimetry and result for Nitrate calculated as the difference between the two results. This method is compliant with NEPM Schedule B(3)
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	WATER	In house: Referenced to APHA 4500-NO3- F. Combined oxidised Nitrogen (NO2+NO3) is determined by Chemical Reduction and direct colourimetry by Discrete Analyser. This method is compliant with NEPM Schedule B(3)
Total Kjeldahl Nitrogen as N By Discrete Analyser	EK061G	WATER	In house: Referenced to APHA 4500-Norg D (In house). An aliquot of sample is digested using a high temperature Kjeldahl digestion to convert nitrogenous compounds to ammonia. Ammonia is determined colorimetrically by discrete analyser. This method is compliant with NEPM Schedule B(3)
Total Nitrogen as N (TKN + Nox) By Discrete Analyser	EK062G	WATER	In house: Referenced to APHA 4500-Norg / 4500-NO3-. This method is compliant with NEPM Schedule B(3)
Total Phosphorus as P By Discrete Analyser	EK067G	WATER	In house: Referenced to APHA 4500-P H, Jirka et al, Zhang et al. This procedure involves sulphuric acid digestion of a sample aliquot to break phosphorus down to orthophosphate. The orthophosphate reacts with ammonium molybdate and antimony potassium tartrate to form a complex which is then reduced and its concentration measured at 880nm using discrete analyser. This method is compliant with NEPM Schedule B(3)
Reactive Phosphorus as P-By Discrete Analyser	EK071G	WATER	In house: Referenced to APHA 4500-P F Ammonium molybdate and potassium antimonyl tartrate reacts in acid medium with othophosphate to form a heteropoly acid -phosphomolybdic acid - which is reduced to intensely coloured molybdenum blue by ascorbic acid. Quantification is by Discrete Analyser. This method is compliant with NEPM Schedule B(3)
Ionic Balance by PCT DA and Turbi SO4 DA	* EN055 - PG	WATER	In house: Referenced to APHA 1030F. This method is compliant with NEPM Schedule B(3)
TRH - Semivolatile Fraction	EP071	WATER	In house: Referenced to USEPA SW 846 - 8015 The sample extract is analysed by Capillary GC/FID and quantification is by comparison against an established 5 point calibration curve of n-Alkane standards. This method is compliant with the QC requirements of NEPM Schedule B(3)
Volatile Organic Compounds	EP074	WATER	In house: Referenced to USEPA SW 846 - 8260 Water samples are directly purged prior to analysis by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3)
Semivolatile Organic Compounds	EP075	WATER	In house: Referenced to USEPA SW 846 - 8270 Sample extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3)

Analytical Methods	Method	Matrix	Method Descriptions
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	WATER	In house: Referenced to USEPA SW 846 - 8270 Sample extracts are analysed by Capillary GC/MS in SIM Mode and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3)
TRH Volatiles/BTEX	EP080	WATER	In house: Referenced to USEPA SW 846 - 8260 Water samples are directly purged prior to analysis by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. Alternatively, a sample is equilibrated in a headspace vial and a portion of the headspace determined by GCMS analysis. This method is compliant with the QC requirements of NEPM Schedule B(3)
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	WATER	In-house: Analysis of fresh and saline waters by Solid Phase Extraction (SPE) followed by LC-Electrospray-MS-MS, Negative Mode using MRM and internal standard quantitation. Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to the sample container. The entire contents are transferred to a solid phase extraction (SPE) cartridge. The sample container is successively rinsed with aliquots of the elution solvent. The eluted extract is combined with an equal volume of reagent water and a portion is filtered for analysis. Method procedures and data quality objectives conform to US DoD QSM 5.3, table B-15 requirements.

Preparation Methods	Method	Matrix	Method Descriptions
TKN/TP Digestion	EK061/EK067	WATER	In house: Referenced to APHA 4500 Norg - D; APHA 4500 P - H. This method is compliant with NEPM Schedule B(3)
Digestion for Total Recoverable Metals	EN25	WATER	In house: Referenced to USEPA SW846-3005. Method 3005 is a Nitric/Hydrochloric acid digestion procedure used to prepare surface and ground water samples for analysis by ICPAES or ICPMS. This method is compliant with NEPM Schedule B(3)
Separatory Funnel Extraction of Liquids	ORG14	WATER	In house: Referenced to USEPA SW 846 - 3510 100 mL to 1L of sample is transferred to a separatory funnel and serially extracted three times using DCM for each extract. The resultant extracts are combined, dehydrated and concentrated for analysis. This method is compliant with NEPM Schedule B(3) . ALS default excludes sediment which may be resident in the container.
Volatiles Water Preparation	ORG16-W	WATER	A 5 mL aliquot or 5 mL of a diluted sample is added to a 40 mL VOC vial for purging.
Solid Phase Extraction (SPE) for PFAS in water	ORG72	WATER	In-house: Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to the sample container. The entire contents are transferred to a solid phase extraction (SPE) cartridge. The sample container is successively rinsed with aliquots of the elution solvent. The eluted extract is combined with an equal volume of reagent water and a portion is filtered for analysis. Method procedures conform to US DoD QSM 5.3, table B-15 requirements.

CHAIN OF CUSTODY

ALS Laboratory: please tick →

☐ADELAIDE 21 Burma Road Pooraka SA 5095 Ph: 08 8359 0890 E: adelaide@alsglobal.com

☐BRISBANE 32 Shand Street Stafford QLD 4053 Ph: 07 3243 7222 E: samples.brisbane@alsglobal.com

☐GLADSTONE 46 Callemondah Drive Clinton QLD 4680 Ph: 07 4971 5600 E: gladstone@alsglobal.com

☐MACKAY 78 Harbour Road Mackay QLD 4740 Ph: 07 4944 0177 E: mackay@alsglobal.com

☐MELBOURNE 2-4 Westall Road Springvale VIC 3171 Ph: 03 8549 9600 E: samples.melbourne@alsglobal.com

☐MUDGEE 27 Sydney Road Mudgee NSW 2850 Ph: 02 6372 6735 E: mudgee.mail@alsglobal.com

☐NEWCASTLE 5/585 Maitland Rd Mayfield West NSW 2304 Ph: 02 4014 2500 E: samples.newcastle@alsglobal.com

☐NOWRA 4/13 Geary Place North Nowra NSW 2541 Ph: 02 4423 2063 E: nowra@alsglobal.com

☐PERTH 10 Hod Way Malaga WA 6090 Ph: 08 9209 7655 E: samples.perth@alsglobal.com

☐SYDNEY 277-289 Woodpark Road Smithfield NSW 2164 Ph: 02 8784 8555 E: samples.sydney@alsglobal.com

☐TOWNSVILLE 14-15 Desma Court Bohle QLD 4818 Ph: 07 4796 0600 E: townsville.environmental@alsglobal.com

☐WOLLONGONG 99 Kenny Street Wollongong NSW 2500 Ph: 02 4225 3125 E: portkembla@alsglobal.com

CLIENT: FRM	TURNAROUND REQUIREMENTS: (Standard TAT may be longer for some tests e.g. Ultra Trace Organics)	☑ Standard TAT (List due date):	FOR LABORATORY USE ONLY (Circle)
OFFICE: Sydney		☐ Non Standard or urgent TAT (List due date):	Custody Seal Intact? Yes No N/A
PROJECT: 0628507	ALS QUOTE NO.:	COC SEQUENCE NUMBER (Circle)	Free ice / frozen ice bricks present upon receipt? Yes No N/A
ORDER NUMBER:		COC: 1 2 3 4 5 6 7	Random Sample Temperature on Receipt: °C
PROJECT MANAGER: Nicholas Arbuth	CONTACT PH: 0415 833 925	OF: 1 2 3 4 5 6 7	Other comment:
SAMPLER: Taj Hanson	SAMPLER MOBILE: 0467 295 082		
COC emailed to ALS? (YES / (NO))	EDD FORMAT (or default):		
Email Reports to (will default to PM if no other addresses are listed):			
Email Invoice to (will default to PM if no other addresses are listed):			

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
T. Hanson	Sky		
DATE/TIME: 21/01/22	DATE/TIME: 21-1-22 1:15pm	DATE/TIME:	DATE/TIME:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE	SAMPLE DETAILS MATRIX: SOLID (S) WATER (W)			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required).								Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL CONTAINERS	PFAS								Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc.
1	SMW-BH051	18-01-22	W											
2	SMW-BH051_S	18-01-22												
3	851	20-01-22												
4	S54													
5	S02_d													
6	S06													
7	S40_d													
8	S40_S													
9	BUR_MW108													
10	DO1-220119	19-01-22												
11	TO1-220119	19-01-22												
				TOTAL										

Environmental Division
Sydney
Work Order Reference
ES2202047

Telephone - 61-2-8784 8555

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide/Cd Preserved; S = Sodium Hydroxide Preserved Plastic; AG = Amber Glass Unpreserved; AP = Airfreight Unpreserved Plastic
V = VOA Vial HCl Preserved; VB = VOA Vial Sodium Bisulphate Preserved; VS = VOA Vial Sulfuric Preserved; AV = Airfreight Unpreserved Vial SG = Sulfuric Preserved Amber Glass; H = HCl preserved Plastic; HS = HCl preserved Speciation bottle; SP = Sulfuric Preserved Plastic; F = Formaldehyde Preserved Glass; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; ASS = Plastic Bag for Acid Sulphate Soils; B = Unpreserved Bag.

CHAIN OF CUSTODY

ALS Laboratory: please tick →

☐ADELAIDE 21 Burma Road Pooraka SA 5095 Ph: 08 8359 0890 E: adelaide@alsglobal.com

☐BRISBANE 32 Shand Street Stafford QLD 4053 Ph: 07 3243 7222 E: samples.brisbane@alsglobal.com

☐GLADSTONE 46 Callemondah Drive Clinton QLD 4680 Ph: 07 7471 5600 E: gladstone@alsglobal.com

☐MACKAY 78 Harbour Road Mackay QLD 4740 Ph: 07 4944 0177 E: mackay@alsglobal.com

☐MELBOURNE 2-4 Westall Road Springvale VIC 3171 Ph: 03 8549 9600 E: samples.melbourne@alsglobal.com

☐MUDGEE 27 Sydney Road Mudgee NSW 2850 Ph: 02 6372 6735 E: mudgee.mail@alsglobal.com

☐NEWCASTLE 5/585 Maitland Rd Mayfield West NSW 2304 Ph: 02 4014 2500 E: samples.newcastle@alsglobal.com

☐NOWRA 4/13 Geary Place North Nowra NSW 2541 Ph: 024423 2063 E: nowra@alsglobal.com

☐PERTH 10 Hod Way Malaga WA 6090 Ph: 08 9209 7655 E: samples.perth@alsglobal.com

☐SYDNEY 277-289 Woodpark Road Smithfield NSW 2164 Ph: 02 8784 8555 E: samples.sydney@alsglobal.com

☐TOWNSVILLE 14-15 Desma Court Bohle QLD 4818 Ph: 07 4796 0600 E: townsville.environmental@alsglobal.com

☐WOLLONGONG 99 Kenny Street Wollongong NSW 2500 Ph: 02 4225 3125 E: portkembla@alsglobal.com

CLIENT: ERM	TURNAROUND REQUIREMENTS : ☑ Standard TAT (List due date):	FOR LABORATORY USE ONLY (Circle)	
OFFICE: Sydney	(Standard TAT may be longer for some tests e.g. Ultra Trace Organics) ☐ Non Standard or urgent TAT (List due date):	Custody Seal Intact?	Yes / No / N/A
PROJECT: 0628507	ALS QUOTE NO.:	Free ice / frozen ice bricks present upon receipt?	Yes / No / N/A
ORDER NUMBER:	COC SEQUENCE NUMBER (Circle) COC: 1 2 3 4 5 6 7 OF: 1 2 3 4 5 6 7	Random Sample Temperature on Receipt:	°C
PROJECT MANAGER: Nicholas Grbich	CONTACT PH: 0415 833 925	Other comment:	
SAMPLER: Taj Morgan	SAMPLER MOBILE: 0467 295 082		
COC emailed to ALS? (YES / (NO)	EDD FORMAT (or default):		
Email Reports to (will default to PM if no other addresses are listed):			
Email Invoice to (will default to PM if no other addresses are listed):			

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Taj Morgan			
DATE/TIME: 21/01/22	DATE/TIME:	DATE/TIME:	DATE/TIME:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE	SAMPLE DETAILS MATRIX: SOLID (S) WATER (W)			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required).								Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL CONTAINERS	TPH & BTEXN	PAHs	VOCs	Heavy metals plus iron	PFAS	Ammonia, nitrate, total Nitrogen, total phosphorus	Major anions & cations	TDS	Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc.
12	BUR_BH125	21-01-22	W			X	X	X	X	X	X	X	X	PFAS sample taken on 20/01/22
13	ROI-220121	↓	↓			X	X	X	X	X	X			No nitrate analysis
14	Trip spike + Trip blank					X	X	X	X					
15	SMW-BH120	19-01-22								X				
16	SMW-BH019	19-01-22								↓				
17	ROI-220119	19-01-22												
18	SMW_BH038	18-01-22												
19	SMW_BH035	18-01-22												
20	SMW-BH035_S	18-01-22												
21	ROI-220118	18-01-22												
22	ROI-220117	17-01-22	↓											
23	ROI-220120	20-01-22												
					TOTAL									

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide/Cd Preserved; S = Sodium Hydroxide Preserved Plastic; AG = Amber Glass Unpreserved; AP - Airfreight Unpreserved Plastic
V = VOA Vial HCl Preserved; VB = VOA Vial Sodium Bisulphate Preserved; VS = VOA Vial Sulfuric Preserved; AV = Airfreight Unpreserved Vial SG = Sulfuric Preserved Amber Glass; H = HCl preserved Plastic; HS = HCl preserved Speciation bottle; SP = Sulfuric Preserved Plastic; F = Formaldehyde Preserved Glass; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; ASS = Plastic Bag for Acid Sulphate Soils; B = Unpreserved Bag.

CHAIN OF CUSTODY

ALS Laboratory: please tick →

☐ADELAIDE 21 Burma Road Pooraka SA 5095 Ph: 08 8359 0890 E: ade.ade@alsglobal.com

☐BRISBANE 32 Shand Street Stafford QLD 4053 Ph: 07 3243 7222 E: samples.brisbane@alsglobal.com

☐GLADSTONE 46 Callemondah Drive Clinton QLD 4680 Ph: 07 7471 5600 E: gladstone@alsglobal.com

☐MACKAY 78 Harbour Road Mackay QLD 4740 Ph: 07 4944 0177 E: mackay@alsglobal.com

☐MELBOURNE 2-4 Westall Road Springvale VIC 3171 Ph: 03 8549 9600 E: samples.melbourne@alsglobal.com

☐MUDGEE 27 Sydney Road Mudgee NSW 2850 Ph: 02 6372 6735 E: mudgee.mail@alsglobal.com

☐NEWCASTLE 5/585 Maitland Rd Mayfield West NSW 2304 Ph: 02 4014 2500 E: samples.newcastle@alsglobal.com

☐NOWRA 4/13 Geary Place North Nowra NSW 2541 Ph: 024423 2063 E: nowra@alsglobal.com

☐PERTH 10 Hod Way Malaga WA 6090 Ph: 08 9209 7655 E: samples.perth@alsglobal.com

☐SYDNEY 277-289 Woodpark Road Smithfield NSW 2164 Ph: 02 8784 8555 E: samples.sydney@alsglobal.com

☐TOWNSVILLE 14-15 Desma Court Bohle QLD 4818 Ph: 07 4796 0600 E: townsville.environmental@alsglobal.com

☐WOLLONGONG 99 Kenny Street Wollongong NSW 2500 Ph: 02 4225 3125 E: portkembla@alsglobal.com

CLIENT: EPM	TURNAROUND REQUIREMENTS: (Standard TAT may be longer for some tests e.g. Ultra Trace Organics)	☑ Standard TAT (List due date):	FOR LABORATORY USE ONLY (Circle)
OFFICE: Sydney		☐ Non Standard or urgent TAT (List due date):	Custody Seal Intact? Yes No N/A
PROJECT: 0628507	ALS QUOTE NO.:	COC SEQUENCE NUMBER (Circle)	Free ice / frozen ice bricks present upon receipt? Yes No N/A
ORDER NUMBER:		COC: 1 2 3 4 5 6 7	Random Sample Temperature on Receipt: °C
PROJECT MANAGER: Nicholas Arbuth	CONTACT PH: 0415 833 925	OF: 1 2 3 4 5 6 7	Other comment:
SAMPLER: Tay Manson	SAMPLER MOBILE: 0467 295 082		
COC emailed to ALS? (YES / (NO))	EDD FORMAT (or default):		
Email Reports to (will default to PM if no other addresses are listed):			
Email Invoice to (will default to PM if no other addresses are listed):			

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
T. Manson	Sky c		
DATE/TIME: 21/01/22	DATE/TIME: 21-1-22 1015	DATE/TIME:	DATE/TIME:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE	SAMPLE DETAILS MATRIX: SOLID (S) WATER (W)			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required).								Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL CONTAINERS	PFAS								Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc.
1	SMW-BH051	18-01-22	W			✓								
2	SMW-BH051_S	18-01-22												
3	851	20-01-22												
4	S54													
5	S02_d													
6	S06													
7	S40_d													
8	S40_S													
9	BUR-MW108													
10	DQ1-220119	19-01-22												
11	TQ1-220119	19-01-22	✓			✓								
				TOTAL										

Environmental Division
Sydney
Work Order Reference
ES2202047

Telephone - 61-2-8784 8555

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide/Cd Preserved; S = Sodium Hydroxide Preserved Plastic; AG = Amber Glass Unpreserved; AP - Airfreight Unpreserved Plastic
V = VOA Vial HCl Preserved; VB = VOA Vial Sodium Bisulphate Preserved; VS = VOA Vial Sulfuric Preserved; AV = Airfreight Unpreserved Vial SG = Sulfuric Preserved Amber Glass; H = HCl preserved Plastic; HS = HCl preserved Speciation bottle; SP = Sulfuric Preserved Plastic; F = Formaldehyde Preserved Glass;
Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; ASS = Plastic Bag for Acid Sulphate Soils; B = Unpreserved Bag.

CHAIN OF CUSTODY

ALS Laboratory: please tick →

☐ADELAIDE 21 Burma Road Pooraka SA 5095 Ph: 08 8359 0890 E: adelaide@alsglobal.com

☐BRISBANE 32 Shand Street Stafford Qld 4053 Ph: 07 3243 7222 E: samples.brisbane@alsglobal.com

☐GLADSTONE 46 Callemondah Drive Clinton QLD 4680 Ph: 07 7471 5600 E: gladstone@alsglobal.com

☐MACKAY 78 Harbour Road Mackay QLD 4740 Ph: 07 4944 0177 E: mackay@alsglobal.com

☐MELBOURNE 2-4 Westall Road Springvale VIC 3171 Ph: 03 8549 9600 E: samples.melbourne@alsglobal.com

☐MUDGEE 27 Sydney Road Mudgee NSW 2850 Ph: 02 8372 6735 E: mudgee.mail@alsglobal.com

☐NEWCASTLE 5/585 Maitland Rd Mayfield West NSW 2304 Ph: 02 4014 2500 E: samples.newcastle@alsglobal.com

☐NOWRA 4/13 Geary Place North Nowra NSW 2541 Ph: 024423 2063 E: nowra@alsglobal.com

☐PERTH 10 Hod Way Malaga WA 6090 Ph: 08 9209 7655 E: samples.perth@alsglobal.com

☐SYDNEY 277-289 Woodpark Road Smithfield NSW 2164 Ph: 02 8784 8555 E: samples.sydney@alsglobal.com

☐TOWNSVILLE 14-15 Desma Court Bohle Qld 4818 Ph: 07 4796 0600 E: townsville.environmental@alsglobal.com

☐WOLLONGONG 99 Kenny Street Wollongong NSW 2500 Ph: 02 4225 3125 E: portkembla@alsglobal.com

CLIENT: ERM	TURNAROUND REQUIREMENTS : ☑ Standard TAT (List due date):	FOR LABORATORY USE ONLY (Circle)	
OFFICE: Sydney	(Standard TAT may be longer for some tests e.g. Ultra Trace Organics) ☐ Non Standard or urgent TAT (List due date):	Custody Seal Intact?	Yes / No / N/A
PROJECT: 0628507	ALS QUOTE NO.:	Free ice / frozen ice bricks present upon receipt?	Yes / No / N/A
ORDER NUMBER:	COC SEQUENCE NUMBER (Circle) COC: 1 2 3 4 5 6 7	Random Sample Temperature on Receipt:	°C
PROJECT MANAGER: Nicholas Gubiza CONTACT PH: 0415 833 925	OF: 1 2 3 4 5 6 7	Other comment:	

SAMPLER: Taj Manson	SAMPLER MOBILE: 0467 295 082	RELINQUISHED BY: Taj Manson	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
COC emailed to ALS? (YES / (NO))	EDD FORMAT (or default):	DATE/TIME: 21/01/22	DATE/TIME:	DATE/TIME:	DATE/TIME:
Email Reports to (will default to PM if no other addresses are listed):					
Email Invoice to (will default to PM if no other addresses are listed):					

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE	SAMPLE DETAILS MATRIX: SOLID (S) WATER (W)			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required).								Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL CONTAINERS	TRH & BTEX N	PAH's	VOC's	Heavy metals plus ASRC	PFAS	Ammonia, nitrate, nitrite, nitrogen, total phosphorus	Major anions & cations	PFAS	Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc.
12	BUR_BH125	21-01-22	W			X	X	X	X	X	X	X	X	PFAS sample taken on 20/01/22
13	ROL-220121	↓	↓			X	X	X	X	X	X			No nitrate analysis
14,15	Trip spike + Trip blank	↓	↓			X	X	X	X					
16	SMW_BH120	19-01-22								X				
17	SMW_BH019	19-01-22												
18	ROL_220119	19-01-22												
19	SMW_BH038	18-01-22												
20	SMW_BH035	18-01-22												
21	SMW_BH035_S	18-01-22												
22	ROL-220118	18-01-22												
23	ROL-220117	17-01-22	↓											
24	ROL-220120	20-01-22								↓				
					TOTAL									

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide/Cd Preserved; S = Sodium Hydroxide Preserved Plastic; AG = Amber Glass Unpreserved; AP - Airfreight Unpreserved Plastic
V = VOA Vial HCl Preserved; VB = VOA Vial Sodium Bisulphate Preserved; VS = VOA Vial Sulfuric Preserved; AV = Airfreight Unpreserved Vial SG = Sulfuric Preserved Amber Glass; H = HCl preserved Plastic; HS = HCl preserved Speciation bottle; SP = Sulfuric Preserved Plastic; F = Formaldehyde Preserved Glass; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; ASS = Plastic Bag for Acid Sulphate Soils; B = Unpreserved Bag.

APPENDIX F 95% UCLS

UCL Statistics for Uncensored Full Data Sets

User Selected Options	
Date/Time of Computation	ProUCL 5.12/02/2022 2:38:47 PM
From File	WorkSheet.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Benzo(a)pyrene

General Statistics

Total Number of Observations	82	Number of Distinct Observations	14
		Number of Missing Observations	3
Minimum	0.5	Mean	0.96
Maximum	14.5	Median	0.5
SD	1.78	Std. Error of Mean	0.197
Coefficient of Variation	1.855	Skewness	6.089

Normal GOF Test

Shapiro Wilk Test Statistic	0.31	**Shapiro Wilk GOF Test**
5% Shapiro Wilk P Value	0	Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.443	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.098	Data Not Normal at 5% Significance Level

Data Not Normal at 5% Significance Level

Assuming Normal Distribution

95% Normal UCL		**95% UCLs (Adjusted for Skewness)**	
95% Student's-t UCL	1.287	95% Adjusted-CLT UCL (Chen-1995)	1.424
		95% Modified-t UCL (Johnson-1978)	1.309

Gamma GOF Test

A-D Test Statistic	22.31	**Anderson-Darling Gamma GOF Test**
5% A-D Critical Value	0.774	Data Not Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.492	**Kolmogorov-Smirnov Gamma GOF Test**
5% K-S Critical Value	0.101	Data Not Gamma Distributed at 5% Significance Level

Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	1.367	k star (bias corrected MLE)	1.325
Theta hat (MLE)	0.702	Theta star (bias corrected MLE)	0.724
nu hat (MLE)	224.2	nu star (bias corrected)	217.3
MLE Mean (bias corrected)	0.96	MLE Sd (bias corrected)	0.834
		Approximate Chi Square Value (0.05)	184.2
Adjusted Level of Significance	0.0471	Adjusted Chi Square Value	183.6

Assuming Gamma Distribution

95% Approximate Gamma UCL (use when n>=50))	1.132	95% Adjusted Gamma UCL (use when n<50)	1.136

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.441	**Shapiro Wilk Lognormal GOF Test**
5% Shapiro Wilk P Value	0	Data Not Lognormal at 5% Significance Level
Lilliefors Test Statistic	0.486	**Lilliefors Lognormal GOF Test**
5% Lilliefors Critical Value	0.098	Data Not Lognormal at 5% Significance Level

56	**Data Not Lognormal at 5% Significance Level**											
57												
58	**Lognormal Statistics**											
59						Minimum of Logged Data	-0.693			Mean of logged Data	-0.449	
60						Maximum of Logged Data	2.674			SD of logged Data	0.657	
61												
62	**Assuming Lognormal Distribution**											
63						95% H-UCL	0.913			90% Chebyshev (MVUE) UCL	0.976	
64						95% Chebyshev (MVUE) UCL	1.061			97.5% Chebyshev (MVUE) UCL	1.179	
65						99% Chebyshev (MVUE) UCL	1.41					
66												
67	**Nonparametric Distribution Free UCL Statistics**											
68	**Data do not follow a Discernible Distribution (0.05)**											
69												
70	**Nonparametric Distribution Free UCLs**											
71						95% CLT UCL	1.283			95% Jackknife UCL	1.287	
72						95% Standard Bootstrap UCL	1.279			95% Bootstrap-t UCL	1.718	
73						95% Hall's Bootstrap UCL	2.486			95% Percentile Bootstrap UCL	1.3	
74						95% BCA Bootstrap UCL	1.498					
75						90% Chebyshev(Mean, Sd) UCL	1.55			95% Chebyshev(Mean, Sd) UCL	1.817	
76						97.5% Chebyshev(Mean, Sd) UCL	2.187			99% Chebyshev(Mean, Sd) UCL	2.916	
77												
78	**Suggested UCL to Use**											
79						95% Chebyshev (Mean, Sd) UCL	1.817					
80												
81	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
82	Recommendations are based upon data size, data distribution, and skewness.											
83	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
84	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
85												
86												
87	**Copper**											
88												
89	**General Statistics**											
90						Total Number of Observations	82			Number of Distinct Observations	46	
91										Number of Missing Observations	3	
92						Minimum	5			Mean	30.95	
93						Maximum	207			Median	20.5	
94						SD	31.16			Std. Error of Mean	3.441	
95						Coefficient of Variation	1.007			Skewness	3.097	
96												
97	**Normal GOF Test**											
98						Shapiro Wilk Test Statistic	0.714			**Shapiro Wilk GOF Test**		
99						5% Shapiro Wilk P Value	0			Data Not Normal at 5% Significance Level		
100						Lilliefors Test Statistic	0.202			**Lilliefors GOF Test**		
101						5% Lilliefors Critical Value	0.098			Data Not Normal at 5% Significance Level		
102	**Data Not Normal at 5% Significance Level**											
103												
104	**Assuming Normal Distribution**											
105						**95% Normal UCL**				**95% UCLs (Adjusted for Skewness)**		
106						95% Student's-t UCL	36.68			95% Adjusted-CLT UCL (Chen-1995)	37.87	
107										95% Modified-t UCL (Johnson-1978)	36.87	
108												
109	**Gamma GOF Test**											
110						A-D Test Statistic	1			**Anderson-Darling Gamma GOF Test**		

111				5% A-D Critical Value	0.77	Data Not Gamma Distributed at 5% Significance Level						
112				K-S Test Statistic	0.103	**Kolmogorov-Smirnov Gamma GOF Test**						
113				5% K-S Critical Value	0.1	Data Not Gamma Distributed at 5% Significance Level						
114	**Data Not Gamma Distributed at 5% Significance Level**											
115												
116	**Gamma Statistics**											
117				k hat (MLE)	1.565	k star (bias corrected MLE)	1.516					
118				Theta hat (MLE)	19.78	Theta star (bias corrected MLE)	20.42					
119				nu hat (MLE)	256.6	nu star (bias corrected)	248.6					
120				MLE Mean (bias corrected)	30.95	MLE Sd (bias corrected)	25.14					
121						Approximate Chi Square Value (0.05)	213.1					
122				Adjusted Level of Significance	0.0471	Adjusted Chi Square Value	212.5					
123												
124	**Assuming Gamma Distribution**											
125				95% Approximate Gamma UCL (use when n>=50))	36.11	95% Adjusted Gamma UCL (use when n<50)	36.21					
126												
127	**Lognormal GOF Test**											
128				Shapiro Wilk Test Statistic	0.969	**Shapiro Wilk Lognormal GOF Test**						
129				5% Shapiro Wilk P Value	0.182	Data appear Lognormal at 5% Significance Level						
130				Lilliefors Test Statistic	0.0751	**Lilliefors Lognormal GOF Test**						
131				5% Lilliefors Critical Value	0.098	Data appear Lognormal at 5% Significance Level						
132	**Data appear Lognormal at 5% Significance Level**											
133												
134	**Lognormal Statistics**											
135				Minimum of Logged Data	1.609	Mean of logged Data	3.08					
136				Maximum of Logged Data	5.333	SD of logged Data	0.832					
137												
138	**Assuming Lognormal Distribution**											
139				95% H-UCL	37.28	90% Chebyshev (MVUE) UCL	40.19					
140				95% Chebyshev (MVUE) UCL	44.54	97.5% Chebyshev (MVUE) UCL	50.59					
141				99% Chebyshev (MVUE) UCL	62.45							
142												
143	**Nonparametric Distribution Free UCL Statistics**											
144	**Data appear to follow a Discernible Distribution at 5% Significance Level**											
145												
146	**Nonparametric Distribution Free UCLs**											
147				95% CLT UCL	36.61	95% Jackknife UCL	36.68					
148				95% Standard Bootstrap UCL	36.47	95% Bootstrap-t UCL	38.55					
149				95% Hall's Bootstrap UCL	39.9	95% Percentile Bootstrap UCL	36.78					
150				95% BCA Bootstrap UCL	38.51							
151				90% Chebyshev(Mean, Sd) UCL	41.27	95% Chebyshev(Mean, Sd) UCL	45.95					
152				97.5% Chebyshev(Mean, Sd) UCL	52.44	99% Chebyshev(Mean, Sd) UCL	65.18					
153												
154	**Suggested UCL to Use**											
155				95% H-UCL	37.28							
156												
157	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
158	Recommendations are based upon data size, data distribution, and skewness.											
159	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
160	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
161												
162	**ProUCL computes and outputs H-statistic based UCLs for historical reasons only.**											
163	**H-statistic often results in unstable (both high and low) values of UCL95 as shown in examples in the Technical Guide.**											
164	**It is therefore recommended to avoid the use of H-statistic based 95% UCLs.**											
165	**Use of nonparametric methods are preferred to compute UCL95 for skewed data sets which do not follow a gamma distribution.**											

	A	B	C	D	E	F	G	H	I	J	K	L
166												
167												
168	**Nickel**											
169												
170	**General Statistics**											
171					Total Number of Observations	82			Number of Distinct Observations			29
172									Number of Missing Observations			3
173					Minimum	2			Mean			11.54
174					Maximum	95			Median			6
175					SD	15.66			Std. Error of Mean			1.729
176					Coefficient of Variation	1.357			Skewness			2.867
177												
178	**Normal GOF Test**											
179					Shapiro Wilk Test Statistic	0.66			**Shapiro Wilk GOF Test**			
180					5% Shapiro Wilk P Value	0			Data Not Normal at 5% Significance Level			
181					Lilliefors Test Statistic	0.271			**Lilliefors GOF Test**			
182					5% Lilliefors Critical Value	0.098			Data Not Normal at 5% Significance Level			
183	**Data Not Normal at 5% Significance Level**											
184												
185	**Assuming Normal Distribution**											
186					**95% Normal UCL**				**95% UCLs (Adjusted for Skewness)**			
187					95% Student's-t UCL	14.41			95% Adjusted-CLT UCL (Chen-1995)			14.97
188									95% Modified-t UCL (Johnson-1978)			14.5
189												
190	**Gamma GOF Test**											
191					A-D Test Statistic	4.35			**Anderson-Darling Gamma GOF Test**			
192					5% A-D Critical Value	0.786			Data Not Gamma Distributed at 5% Significance Level			
193					K-S Test Statistic	0.211			**Kolmogorov-Smirnov Gamma GOF Test**			
194					5% K-S Critical Value	0.102			Data Not Gamma Distributed at 5% Significance Level			
195	**Data Not Gamma Distributed at 5% Significance Level**											
196												
197	**Gamma Statistics**											
198					k hat (MLE)	0.908			k star (bias corrected MLE)			0.883
199					Theta hat (MLE)	12.7			Theta star (bias corrected MLE)			13.06
200					nu hat (MLE)	149			nu star (bias corrected)			144.9
201					MLE Mean (bias corrected)	11.54			MLE Sd (bias corrected)			12.27
202									Approximate Chi Square Value (0.05)			118.1
203					Adjusted Level of Significance	0.0471			Adjusted Chi Square Value			117.6
204												
205	**Assuming Gamma Distribution**											
206					95% Approximate Gamma UCL (use when n>=50))	14.16			95% Adjusted Gamma UCL (use when n<50)			14.21
207												
208	**Lognormal GOF Test**											
209					Shapiro Wilk Test Statistic	0.854			**Shapiro Wilk Lognormal GOF Test**			
210					5% Shapiro Wilk P Value	3.283E-11			Data Not Lognormal at 5% Significance Level			
211					Lilliefors Test Statistic	0.233			**Lilliefors Lognormal GOF Test**			
212					5% Lilliefors Critical Value	0.098			Data Not Lognormal at 5% Significance Level			
213	**Data Not Lognormal at 5% Significance Level**											
214												
215	**Lognormal Statistics**											
216					Minimum of Logged Data	0.693			Mean of logged Data			1.803
217					Maximum of Logged Data	4.554			SD of logged Data			1.101
218												
219	**Assuming Lognormal Distribution**											
220					95% H-UCL	14.79			90% Chebyshev (MVUE) UCL			15.92

221				95% Chebyshev (MVUE) UCL	18.15					97.5% Chebyshev (MVUE) UCL	21.25	
222				99% Chebyshev (MVUE) UCL	27.33							
223												
224				**Nonparametric Distribution Free UCL Statistics**								
225				**Data do not follow a Discernible Distribution (0.05)**								
226												
227				**Nonparametric Distribution Free UCLs**								
228				95% CLT UCL	14.38					95% Jackknife UCL	14.41	
229				95% Standard Bootstrap UCL	14.35					95% Bootstrap-t UCL	15.55	
230				95% Hall's Bootstrap UCL	15.2					95% Percentile Bootstrap UCL	14.57	
231				95% BCA Bootstrap UCL	15.05							
232				90% Chebyshev(Mean, Sd) UCL	16.72					95% Chebyshev(Mean, Sd) UCL	19.07	
233				97.5% Chebyshev(Mean, Sd) UCL	22.33					99% Chebyshev(Mean, Sd) UCL	28.74	
234												
235				**Suggested UCL to Use**								
236				95% Chebyshev (Mean, Sd) UCL	19.07							
237												
238				Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.								
239				Recommendations are based upon data size, data distribution, and skewness.								
240				These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).								
241				However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.								
242												
243												
244	**Zinc**											
245												
246				**General Statistics**								
247				Total Number of Observations	82					Number of Distinct Observations	55	
248										Number of Missing Observations	3	
249				Minimum	5					Mean	95.57	
250				Maximum	1180					Median	39	
251				SD	166.8					Std. Error of Mean	18.42	
252				Coefficient of Variation	1.746					Skewness	4.201	
253												
254				**Normal GOF Test**								
255				Shapiro Wilk Test Statistic	0.568					**Shapiro Wilk GOF Test**		
256				5% Shapiro Wilk P Value	0					Data Not Normal at 5% Significance Level		
257				Lilliefors Test Statistic	0.294					**Lilliefors GOF Test**		
258				5% Lilliefors Critical Value	0.098					Data Not Normal at 5% Significance Level		
259				**Data Not Normal at 5% Significance Level**								
260												
261				**Assuming Normal Distribution**								
262				**95% Normal UCL**						**95% UCLs (Adjusted for Skewness)**		
263				95% Student's-t UCL	126.2					95% Adjusted-CLT UCL (Chen-1995)	135	
264										95% Modified-t UCL (Johnson-1978)	127.7	
265												
266				**Gamma GOF Test**								
267				A-D Test Statistic	2.012					**Anderson-Darling Gamma GOF Test**		
268				5% A-D Critical Value	0.806					Data Not Gamma Distributed at 5% Significance Level		
269				K-S Test Statistic	0.13					**Kolmogorov-Smirnov Gamma GOF Test**		
270				5% K-S Critical Value	0.103					Data Not Gamma Distributed at 5% Significance Level		
271				**Data Not Gamma Distributed at 5% Significance Level**								
272												
273				**Gamma Statistics**								
274				k hat (MLE)	0.625					k star (bias corrected MLE)	0.61	
275				Theta hat (MLE)	153					Theta star (bias corrected MLE)	156.7	

276					nu hat (MLE)	102.5				nu star (bias corrected)		100
277					MLE Mean (bias corrected)	95.57				MLE Sd (bias corrected)		122.4
278										Approximate Chi Square Value (0.05)		77.96
279					Adjusted Level of Significance	0.0471				Adjusted Chi Square Value		77.62
280												
281					**Assuming Gamma Distribution**							
282					95% Approximate Gamma UCL (use when n>=50))	122.6				95% Adjusted Gamma UCL (use when n<50)		123.2
283												
284					**Lognormal GOF Test**							
285					Shapiro Wilk Test Statistic	0.926				**Shapiro Wilk Lognormal GOF Test**		
286					5% Shapiro Wilk P Value	8.9410E-5				Data Not Lognormal at 5% Significance Level		
287					Lilliefors Test Statistic	0.107				**Lilliefors Lognormal GOF Test**		
288					5% Lilliefors Critical Value	0.098				Data Not Lognormal at 5% Significance Level		
289					**Data Not Lognormal at 5% Significance Level**							
290												
291					**Lognormal Statistics**							
292					Minimum of Logged Data	1.609				Mean of logged Data		3.577
293					Maximum of Logged Data	7.073				SD of logged Data		1.454
294												
295					**Assuming Lognormal Distribution**							
296					95% H-UCL	159.3				90% Chebyshev (MVUE) UCL		165.7
297					95% Chebyshev (MVUE) UCL	195.4				97.5% Chebyshev (MVUE) UCL		236.5
298					99% Chebyshev (MVUE) UCL	317.3						
299												
300					**Nonparametric Distribution Free UCL Statistics**							
301					**Data do not follow a Discernible Distribution (0.05)**							
302												
303					**Nonparametric Distribution Free UCLs**							
304					95% CLT UCL	125.9				95% Jackknife UCL		126.2
305					95% Standard Bootstrap UCL	125.9				95% Bootstrap-t UCL		144
306					95% Hall's Bootstrap UCL	176.2				95% Percentile Bootstrap UCL		127.2
307					95% BCA Bootstrap UCL	136						
308					90% Chebyshev(Mean, Sd) UCL	150.8				95% Chebyshev(Mean, Sd) UCL		175.9
309					97.5% Chebyshev(Mean, Sd) UCL	210.6				99% Chebyshev(Mean, Sd) UCL		278.9
310												
311					**Suggested UCL to Use**							
312					95% Chebyshev (Mean, Sd) UCL	175.9						
313												
314	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
315	Recommendations are based upon data size, data distribution, and skewness.											
316	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
317	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
318												

1	**UCL Statistics for Uncensored Full Data Sets**											
2												
3	User Selected Options											
4	Date/Time of Computation	ProUCL 5.12/02/2022 2:38:47 PM										
5	From File	WorkSheet.xls										
6	Full Precision	OFF										
7	Confidence Coefficient	95%										
8	Number of Bootstrap Operations	2000										
9												
10												
11	**Benzo(a)pyrene**											
12												
13	**General Statistics**											
14	Total Number of Observations			82			Number of Distinct Observations				14	
15							Number of Missing Observations				3	
16	Minimum			0.5			Mean				0.96	
17	Maximum			14.5			Median				0.5	
18	SD			1.78			Std. Error of Mean				0.197	
19	Coefficient of Variation			1.855			Skewness				6.089	
20												
21	**Normal GOF Test**											
22	Shapiro Wilk Test Statistic			0.31			**Shapiro Wilk GOF Test**					
23	5% Shapiro Wilk P Value			0			Data Not Normal at 5% Significance Level					
24	Lilliefors Test Statistic			0.443			**Lilliefors GOF Test**					
25	5% Lilliefors Critical Value			0.098			Data Not Normal at 5% Significance Level					
26	**Data Not Normal at 5% Significance Level**											
27												
28	**Assuming Normal Distribution**											
29	**95% Normal UCL**						**95% UCLs (Adjusted for Skewness)**					
30	95% Student's-t UCL			1.287			95% Adjusted-CLT UCL (Chen-1995)				1.424	
31							95% Modified-t UCL (Johnson-1978)				1.309	
32												
33	**Gamma GOF Test**											
34	A-D Test Statistic			22.31			**Anderson-Darling Gamma GOF Test**					
35	5% A-D Critical Value			0.774			Data Not Gamma Distributed at 5% Significance Level					
36	K-S Test Statistic			0.492			**Kolmogorov-Smirnov Gamma GOF Test**					
37	5% K-S Critical Value			0.101			Data Not Gamma Distributed at 5% Significance Level					
38	**Data Not Gamma Distributed at 5% Significance Level**											
39												
40	**Gamma Statistics**											
41	k hat (MLE)			1.367			k star (bias corrected MLE)				1.325	
42	Theta hat (MLE)			0.702			Theta star (bias corrected MLE)				0.724	
43	nu hat (MLE)			224.2			nu star (bias corrected)				217.3	
44	MLE Mean (bias corrected)			0.96			MLE Sd (bias corrected)				0.834	
45							Approximate Chi Square Value (0.05)				184.2	
46	Adjusted Level of Significance			0.0471			Adjusted Chi Square Value				183.6	
47												
48	**Assuming Gamma Distribution**											
49	95% Approximate Gamma UCL (use when n>=50))			1.132			95% Adjusted Gamma UCL (use when n<50)				1.136	
50												
51	**Lognormal GOF Test**											
52	Shapiro Wilk Test Statistic			0.441			**Shapiro Wilk Lognormal GOF Test**					
53	5% Shapiro Wilk P Value			0			Data Not Lognormal at 5% Significance Level					
54	Lilliefors Test Statistic			0.486			**Lilliefors Lognormal GOF Test**					
55	5% Lilliefors Critical Value			0.098			Data Not Lognormal at 5% Significance Level					
56	**Data Not Lognormal at 5% Significance Level**											
57												
58	**Lognormal Statistics**											

59				Minimum of Logged Data	-0.693					Mean of logged Data	-0.449	
60				Maximum of Logged Data	2.674					SD of logged Data	0.657	
61												
62				**Assuming Lognormal Distribution**								
63				95% H-UCL	0.913					90% Chebyshev (MVUE) UCL	0.976	
64				95% Chebyshev (MVUE) UCL	1.061					97.5% Chebyshev (MVUE) UCL	1.179	
65				99% Chebyshev (MVUE) UCL	1.41							
66												
67				**Nonparametric Distribution Free UCL Statistics**								
68				**Data do not follow a Discernible Distribution (0.05)**								
69												
70				**Nonparametric Distribution Free UCLs**								
71				95% CLT UCL	1.283					95% Jackknife UCL	1.287	
72				95% Standard Bootstrap UCL	1.279					95% Bootstrap-t UCL	1.718	
73				95% Hall's Bootstrap UCL	2.486					95% Percentile Bootstrap UCL	1.3	
74				95% BCA Bootstrap UCL	1.498							
75				90% Chebyshev(Mean, Sd) UCL	1.55					95% Chebyshev(Mean, Sd) UCL	1.817	
76				97.5% Chebyshev(Mean, Sd) UCL	2.187					99% Chebyshev(Mean, Sd) UCL	2.916	
77												
78				**Suggested UCL to Use**								
79				95% Chebyshev (Mean, Sd) UCL	1.817							
80												
81	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
82	Recommendations are based upon data size, data distribution, and skewness.											
83	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
84	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
85												
86												
87	**Copper**											
88												
89				**General Statistics**								
90				Total Number of Observations	82					Number of Distinct Observations	46	
91										Number of Missing Observations	3	
92				Minimum	5					Mean	30.95	
93				Maximum	207					Median	20.5	
94				SD	31.16					Std. Error of Mean	3.441	
95				Coefficient of Variation	1.007					Skewness	3.097	
96												
97				**Normal GOF Test**								
98				Shapiro Wilk Test Statistic	0.714					**Shapiro Wilk GOF Test**		
99				5% Shapiro Wilk P Value	0					Data Not Normal at 5% Significance Level		
100				Lilliefors Test Statistic	0.202					**Lilliefors GOF Test**		
101				5% Lilliefors Critical Value	0.098					Data Not Normal at 5% Significance Level		
102				**Data Not Normal at 5% Significance Level**								
103												
104				**Assuming Normal Distribution**								
105				**95% Normal UCL**						**95% UCLs (Adjusted for Skewness)**		
106				95% Student's-t UCL	36.68					95% Adjusted-CLT UCL (Chen-1995)	37.87	
107										95% Modified-t UCL (Johnson-1978)	36.87	
108												
109				**Gamma GOF Test**								
110				A-D Test Statistic	1					**Anderson-Darling Gamma GOF Test**		
111				5% A-D Critical Value	0.77					Data Not Gamma Distributed at 5% Significance Level		
112				K-S Test Statistic	0.103					**Kolmogorov-Smirnov Gamma GOF Test**		
113				5% K-S Critical Value	0.1					Data Not Gamma Distributed at 5% Significance Level		
114				**Data Not Gamma Distributed at 5% Significance Level**								
115												
116				**Gamma Statistics**								

117					k hat (MLE)	1.565				k star (bias corrected MLE)		1.516
118					Theta hat (MLE)	19.78				Theta star (bias corrected MLE)		20.42
119					nu hat (MLE)	256.6				nu star (bias corrected)		248.6
120					MLE Mean (bias corrected)	30.95				MLE Sd (bias corrected)		25.14
121										Approximate Chi Square Value (0.05)		213.1
122					Adjusted Level of Significance	0.0471				Adjusted Chi Square Value		212.5
123												
124					**Assuming Gamma Distribution**							
125				95% Approximate Gamma UCL (use when n>=50))		36.11				95% Adjusted Gamma UCL (use when n<50)		36.21
126												
127					**Lognormal GOF Test**							
128					Shapiro Wilk Test Statistic	0.969				**Shapiro Wilk Lognormal GOF Test**		
129					5% Shapiro Wilk P Value	0.182				Data appear Lognormal at 5% Significance Level		
130					Lilliefors Test Statistic	0.0751				**Lilliefors Lognormal GOF Test**		
131					5% Lilliefors Critical Value	0.098				Data appear Lognormal at 5% Significance Level		
132					**Data appear Lognormal at 5% Significance Level**							
133												
134					**Lognormal Statistics**							
135					Minimum of Logged Data	1.609				Mean of logged Data		3.08
136					Maximum of Logged Data	5.333				SD of logged Data		0.832
137												
138					**Assuming Lognormal Distribution**							
139					95% H-UCL	37.28				90% Chebyshev (MVUE) UCL		40.19
140					95% Chebyshev (MVUE) UCL	44.54				97.5% Chebyshev (MVUE) UCL		50.59
141					99% Chebyshev (MVUE) UCL	62.45						
142												
143					**Nonparametric Distribution Free UCL Statistics**							
144					**Data appear to follow a Discernible Distribution at 5% Significance Level**							
145												
146					**Nonparametric Distribution Free UCLs**							
147					95% CLT UCL	36.61				95% Jackknife UCL		36.68
148					95% Standard Bootstrap UCL	36.47				95% Bootstrap-t UCL		38.55
149					95% Hall's Bootstrap UCL	39.9				95% Percentile Bootstrap UCL		36.78
150					95% BCA Bootstrap UCL	38.51						
151					90% Chebyshev(Mean, Sd) UCL	41.27				95% Chebyshev(Mean, Sd) UCL		45.95
152					97.5% Chebyshev(Mean, Sd) UCL	52.44				99% Chebyshev(Mean, Sd) UCL		65.18
153												
154					**Suggested UCL to Use**							
155					95% H-UCL	37.28						
156												
157					Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.							
158					Recommendations are based upon data size, data distribution, and skewness.							
159					These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).							
160					However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.							
161												
162					**ProUCL computes and outputs H-statistic based UCLs for historical reasons only.**							
163					**H-statistic often results in unstable (both high and low) values of UCL95 as shown in examples in the Technical Guide.**							
164					**It is therefore recommended to avoid the use of H-statistic based 95% UCLs.**							
165					**Use of nonparametric methods are preferred to compute UCL95 for skewed data sets which do not follow a gamma distribution.**							
166												
167												
168	**Nickel**											
169												
170					**General Statistics**							
171					Total Number of Observations	82				Number of Distinct Observations		29
172										Number of Missing Observations		3
173					Minimum	2				Mean		11.54
174					Maximum	95				Median		6

175					SD	15.66					Std. Error of Mean	1.729
176					Coefficient of Variation	1.357					Skewness	2.867
177												
178					**Normal GOF Test**							
179					Shapiro Wilk Test Statistic	0.66	**Shapiro Wilk GOF Test**					
180					5% Shapiro Wilk P Value	0	Data Not Normal at 5% Significance Level					
181					Lilliefors Test Statistic	0.271	**Lilliefors GOF Test**					
182					5% Lilliefors Critical Value	0.098	Data Not Normal at 5% Significance Level					
183					**Data Not Normal at 5% Significance Level**							
184												
185					**Assuming Normal Distribution**							
186					**95% Normal UCL**		**95% UCLs (Adjusted for Skewness)**					
187					95% Student's-t UCL	14.41	95% Adjusted-CLT UCL (Chen-1995)	14.97				
188							95% Modified-t UCL (Johnson-1978)	14.5				
189												
190					**Gamma GOF Test**							
191					A-D Test Statistic	4.35	**Anderson-Darling Gamma GOF Test**					
192					5% A-D Critical Value	0.786	Data Not Gamma Distributed at 5% Significance Level					
193					K-S Test Statistic	0.211	**Kolmogorov-Smirnov Gamma GOF Test**					
194					5% K-S Critical Value	0.102	Data Not Gamma Distributed at 5% Significance Level					
195					**Data Not Gamma Distributed at 5% Significance Level**							
196												
197					**Gamma Statistics**							
198					k hat (MLE)	0.908	k star (bias corrected MLE)	0.883				
199					Theta hat (MLE)	12.7	Theta star (bias corrected MLE)	13.06				
200					nu hat (MLE)	149	nu star (bias corrected)	144.9				
201					MLE Mean (bias corrected)	11.54	MLE Sd (bias corrected)	12.27				
202							Approximate Chi Square Value (0.05)	118.1				
203					Adjusted Level of Significance	0.0471	Adjusted Chi Square Value	117.6				
204												
205					**Assuming Gamma Distribution**							
206					95% Approximate Gamma UCL (use when n>=50))	14.16	95% Adjusted Gamma UCL (use when n<50)	14.21				
207												
208					**Lognormal GOF Test**							
209					Shapiro Wilk Test Statistic	0.854	**Shapiro Wilk Lognormal GOF Test**					
210					5% Shapiro Wilk P Value	3.283E-11	Data Not Lognormal at 5% Significance Level					
211					Lilliefors Test Statistic	0.233	**Lilliefors Lognormal GOF Test**					
212					5% Lilliefors Critical Value	0.098	Data Not Lognormal at 5% Significance Level					
213					**Data Not Lognormal at 5% Significance Level**							
214												
215					**Lognormal Statistics**							
216					Minimum of Logged Data	0.693	Mean of logged Data	1.803				
217					Maximum of Logged Data	4.554	SD of logged Data	1.101				
218												
219					**Assuming Lognormal Distribution**							
220					95% H-UCL	14.79	90% Chebyshev (MVUE) UCL	15.92				
221					95% Chebyshev (MVUE) UCL	18.15	97.5% Chebyshev (MVUE) UCL	21.25				
222					99% Chebyshev (MVUE) UCL	27.33						
223												
224					**Nonparametric Distribution Free UCL Statistics**							
225					**Data do not follow a Discernible Distribution (0.05)**							
226												
227					**Nonparametric Distribution Free UCLs**							
228					95% CLT UCL	14.38	95% Jackknife UCL	14.41				
229					95% Standard Bootstrap UCL	14.35	95% Bootstrap-t UCL	15.55				
230					95% Hall's Bootstrap UCL	15.2	95% Percentile Bootstrap UCL	14.57				
231					95% BCA Bootstrap UCL	15.05						
232					90% Chebyshev(Mean, Sd) UCL	16.72	95% Chebyshev(Mean, Sd) UCL	19.07				

233				97.5% Chebyshev(Mean, Sd) UCL		22.33				99% Chebyshev(Mean, Sd) UCL		28.74
234												
235						**Suggested UCL to Use**						
236				95% Chebyshev (Mean, Sd) UCL		19.07						
237												
238						Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.						
239						Recommendations are based upon data size, data distribution, and skewness.						
240						These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).						
241						However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.						
242												
243												
244	**Zinc**											
245												
246						**General Statistics**						
247						Total Number of Observations	82				Number of Distinct Observations	55
248											Number of Missing Observations	3
249						Minimum	5				Mean	95.57
250						Maximum	1180				Median	39
251						SD	166.8				Std. Error of Mean	18.42
252						Coefficient of Variation	1.746				Skewness	4.201
253												
254						**Normal GOF Test**						
255						Shapiro Wilk Test Statistic	0.568				**Shapiro Wilk GOF Test**	
256						5% Shapiro Wilk P Value	0				Data Not Normal at 5% Significance Level	
257						Lilliefors Test Statistic	0.294				**Lilliefors GOF Test**	
258						5% Lilliefors Critical Value	0.098				Data Not Normal at 5% Significance Level	
259						**Data Not Normal at 5% Significance Level**						
260												
261						**Assuming Normal Distribution**						
262						**95% Normal UCL**					**95% UCLs (Adjusted for Skewness)**	
263						95% Student's-t UCL	126.2				95% Adjusted-CLT UCL (Chen-1995)	135
264											95% Modified-t UCL (Johnson-1978)	127.7
265												
266						**Gamma GOF Test**						
267						A-D Test Statistic	2.012				**Anderson-Darling Gamma GOF Test**	
268						5% A-D Critical Value	0.806				Data Not Gamma Distributed at 5% Significance Level	
269						K-S Test Statistic	0.13				**Kolmogorov-Smirnov Gamma GOF Test**	
270						5% K-S Critical Value	0.103				Data Not Gamma Distributed at 5% Significance Level	
271						**Data Not Gamma Distributed at 5% Significance Level**						
272												
273						**Gamma Statistics**						
274						k hat (MLE)	0.625				k star (bias corrected MLE)	0.61
275						Theta hat (MLE)	153				Theta star (bias corrected MLE)	156.7
276						nu hat (MLE)	102.5				nu star (bias corrected)	100
277						MLE Mean (bias corrected)	95.57				MLE Sd (bias corrected)	122.4
278											Approximate Chi Square Value (0.05)	77.96
279						Adjusted Level of Significance	0.0471				Adjusted Chi Square Value	77.62
280												
281						**Assuming Gamma Distribution**						
282						95% Approximate Gamma UCL (use when n>=50))	122.6				95% Adjusted Gamma UCL (use when n<50)	123.2
283												
284						**Lognormal GOF Test**						
285						Shapiro Wilk Test Statistic	0.926				**Shapiro Wilk Lognormal GOF Test**	
286						5% Shapiro Wilk P Value	8.9410E-5				Data Not Lognormal at 5% Significance Level	
287						Lilliefors Test Statistic	0.107				**Lilliefors Lognormal GOF Test**	
288						5% Lilliefors Critical Value	0.098				Data Not Lognormal at 5% Significance Level	
289						**Data Not Lognormal at 5% Significance Level**						
290												

Lognormal Statistics		
Minimum of Logged Data	1.609	Mean of logged Data 3.577
Maximum of Logged Data	7.073	SD of logged Data 1.454
Assuming Lognormal Distribution		
95% H-UCL	159.3	90% Chebyshev (MVUE) UCL 165.7
95% Chebyshev (MVUE) UCL	195.4	97.5% Chebyshev (MVUE) UCL 236.5
99% Chebyshev (MVUE) UCL	317.3	
Nonparametric Distribution Free UCL Statistics		
Data do not follow a Discernible Distribution (0.05)		
Nonparametric Distribution Free UCLs		
95% CLT UCL	125.9	95% Jackknife UCL 126.2
95% Standard Bootstrap UCL	125.9	95% Bootstrap-t UCL 144
95% Hall's Bootstrap UCL	176.2	95% Percentile Bootstrap UCL 127.2
95% BCA Bootstrap UCL	136	
90% Chebyshev(Mean, Sd) UCL	150.8	95% Chebyshev(Mean, Sd) UCL 175.9
97.5% Chebyshev(Mean, Sd) UCL	210.6	99% Chebyshev(Mean, Sd) UCL 278.9
Suggested UCL to Use		
95% Chebyshev (Mean, Sd) UCL	175.9	
Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.		
Recommendations are based upon data size, data distribution, and skewness.		
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).		
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.		

APPENDIX G LOTSEARCH REPORT

LOTSEARCH

LOTSEARCH ENVIRO PROFESSIONAL

Date: 04 Feb 2022 13:58:53

Reference: LS028902 EP

Address: Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134

Disclaimer:
The purpose of this report is to provide an overview of some of the site history, environmental risk and planning information available, affecting an individual address or geographical area in which the property is located. It is not a substitute for an on-site inspection or review of other available reports and records. It is not intended to be, and should not be taken to be, a rating or assessment of the desirability or market value of the property or its features.
You should obtain independent advice before you make any decision based on the information within the report.
The detailed terms applicable to use of this report are set out at the end of this report.

Dataset Listing

Datasets contained within this report, detailing their source and data currency:

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	Dataset Buffer (m)	No. Features On-site	No. Features within 100m	No. Features within Buffer
Cadastre Boundaries	NSW Department of Finance, Services & Innovation	04/01/2022	04/01/2022	Quarterly	-	-	-	-
Topographic Data	NSW Department of Finance, Services & Innovation	25/06/2019	25/06/2019	Annually	-	-	-	-
List of NSW contaminated sites notified to EPA	Environment Protection Authority	10/12/2021	09/12/2021	Monthly	1000m	0	0	2
Contaminated Land Records of Notice	Environment Protection Authority	11/01/2022	11/01/2022	Monthly	1000m	0	0	1
Former Gasworks	Environment Protection Authority	07/01/2022	11/10/2017	Quarterly	1000m	0	0	0
National Waste Management Facilities Database	Geoscience Australia	12/05/2021	07/03/2017	Annually	1000m	0	0	0
National Liquid Fuel Facilities	Geoscience Australia	15/02/2021	13/07/2012	Annually	1000m	0	1	4
EPA PFAS Investigation Program	Environment Protection Authority	24/01/2022	14/07/2021	Monthly	2000m	0	0	0
Defence PFAS Investigation & Management Program - Investigation Sites	Department of Defence	28/01/2022	28/01/2022	Monthly	2000m	0	0	0
Defence PFAS Investigation & Management Program - Management Sites	Department of Defence	28/01/2022	28/01/2022	Monthly	2000m	0	0	0
Airservices Australia National PFAS Management Program	Airservices Australia	06/01/2022	06/01/2022	Monthly	2000m	0	0	0
Defence 3 Year Regional Contamination Investigation Program	Department of Defence	06/01/2022	06/01/2022	Quarterly	2000m	0	0	0
EPA Other Sites with Contamination Issues	Environment Protection Authority	02/02/2021	13/12/2018	Annually	1000m	0	0	0
Licensed Activities under the POEO Act 1997	Environment Protection Authority	19/01/2022	19/01/2022	Monthly	1000m	1	1	2
Delicensed POEO Activities still regulated by the EPA	Environment Protection Authority	19/01/2022	19/01/2022	Monthly	1000m	0	0	3
Former POEO Licensed Activities now revoked or surrendered	Environment Protection Authority	19/01/2022	19/01/2022	Monthly	1000m	1	1	5
UBD Business Directories (Premise & Intersection Matches)	Hardie Grant			Not required	100m	259	781	781
UBD Business Directories (Road & Area Matches)	Hardie Grant			Not required	100m	-	135	135
UBD Business Directory Dry Cleaners & Motor Garages/Service Stations (Premise & Intersection Matches)	Hardie Grant			Not required	250m	30	117	162
UBD Business Directory Dry Cleaners & Motor Garages/Service Stations (Road & Area Matches)	Hardie Grant			Not required	250m	-	50	75
Points of Interest	NSW Department of Finance, Services & Innovation	19/08/2021	19/08/2021	Quarterly	1000m	0	2	81
Tanks (Areas)	NSW Department of Customer Service - Spatial Services	19/08/2021	19/08/2021	Quarterly	1000m	0	0	0
Tanks (Points)	NSW Department of Customer Service - Spatial Services	19/08/2021	19/08/2021	Quarterly	1000m	0	0	0
Major Easements	NSW Department of Finance, Services & Innovation	19/08/2021	19/08/2021	Quarterly	1000m	0	0	7
State Forest	Forestry Corporation of NSW	25/02/2021	14/02/2021	Annually	1000m	0	0	0
NSW National Parks and Wildlife Service Reserves	NSW Office of Environment & Heritage	22/01/2021	11/12/2020	Annually	1000m	0	0	0
Hydrogeology Map of Australia	Commonwealth of Australia (Geoscience Australia)	08/10/2014	17/03/2000	As required	1000m	1	1	1
Temporary Water Restriction (Botany Sands Groundwater Source) Order 2018	NSW Department of Planning, Industry and Environment	26/10/2020	21/02/2018	Annually	1000m	0	0	0
Groundwater Boreholes	NSW Dept. of Primary Industries - Water NSW; Commonwealth of Australia (Bureau of Meteorology)	24/07/2018	23/07/2018	Annually	2000m	0	1	24

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	Dataset Buffer (m)	No. Features On-site	No. Features within 100m	No. Features within Buffer
Geological Units 1:100,000	NSW Department of Planning, Industry and Environment	20/08/2014		Annually	1000m	1	2	4
Geological Structures 1:100,000	NSW Department of Planning, Industry and Environment	20/08/2014		Annually	1000m	0	0	0
Naturally Occurring Asbestos Potential	NSW Dept. of Industry, Resources & Energy	04/12/2015	24/09/2015	Unknown	1000m	0	0	0
Atlas of Australian Soils	Australian Bureau of Agriculture and Resource Economics and Sciences (ABARES)	19/05/2017	17/02/2011	As required	1000m	1	1	1
Soil Landscapes of Central and Eastern NSW	NSW Department of Planning, Industry and Environment	14/10/2020	27/07/2020	Annually	1000m	2	2	3
Environmental Planning Instrument Acid Sulfate Soils	NSW Department of Planning, Industry and Environment	07/01/2022	17/12/2021	Monthly	500m	2	-	-
Atlas of Australian Acid Sulfate Soils	CSIRO	19/01/2017	21/02/2013	As required	1000m	1	1	2
Dryland Salinity - National Assessment	National Land and Water Resources Audit	18/07/2014	12/05/2013	None planned	1000m	0	0	0
Mining Subsidence Districts	NSW Department of Customer Service - Subsidence Advisory NSW	19/08/2021	05/08/2021	Quarterly	1000m	0	0	0
Current Mining Titles	NSW Department of Industry	07/01/2022	07/01/2022	Monthly	1000m	0	0	0
Mining Title Applications	NSW Department of Industry	07/01/2022	07/01/2022	Monthly	1000m	0	0	0
Historic Mining Titles	NSW Department of Industry	07/01/2022	07/01/2022	Monthly	1000m	10	10	10
Environmental Planning Instrument SEPP State Significant Precincts	NSW Department of Planning, Industry and Environment	15/11/2021	07/12/2018	Monthly	1000m	0	0	0
Environmental Planning Instrument Land Zoning	NSW Department of Planning, Industry and Environment	15/11/2021	05/11/2021	Monthly	1000m	4	9	64
Commonwealth Heritage List	Australian Government Department of the Agriculture, Water and the Environment	18/05/2021	20/11/2019	Annually	1000m	0	0	0
National Heritage List	Australian Government Department of the Agriculture, Water and the Environment	18/05/2021	20/11/2019	Annually	1000m	0	0	0
State Heritage Register - Curtilages	NSW Department of Planning, Industry and Environment	19/08/2021	25/06/2021	Quarterly	1000m	0	0	5
Environmental Planning Instrument Local Heritage	NSW Department of Planning, Industry and Environment	07/01/2022	17/12/2021	Monthly	1000m	0	8	187
Bush Fire Prone Land	NSW Rural Fire Service	31/01/2022	08/12/2021	Weekly	1000m	0	0	0
Native Vegetation of the Sydney Metropolitan Area	NSW Office of Environment & Heritage	01/03/2017	16/12/2016	As required	1000m	0	1	2
Ramsar Wetlands of Australia	Australian Government Department of Agriculture, Water and the Environment	24/02/2021	19/03/2020	Annually	1000m	0	0	0
Groundwater Dependent Ecosystems	Bureau of Meteorology	14/08/2017	15/05/2017	Annually	1000m	0	0	0
Inflow Dependent Ecosystems Likelihood	Bureau of Meteorology	14/08/2017	15/05/2017	Unknown	1000m	0	0	0
NSW BioNet Species Sightings	NSW Office of Environment & Heritage	31/01/2022	31/01/2022	Weekly	10000m	-	-	-

Site Diagram

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134



Legend

- Site Boundary
- Internal Parcel Boundaries

Total Area: 14842m²

Total Perimeter: 805m

Scale: 0 25 50 Meters

Data Source Aerial Imagery: © Aerometrex Pty Ltd

Disclaimers:

Measurements are approximate only and may have been simplified or smaller lengths removed for readability.

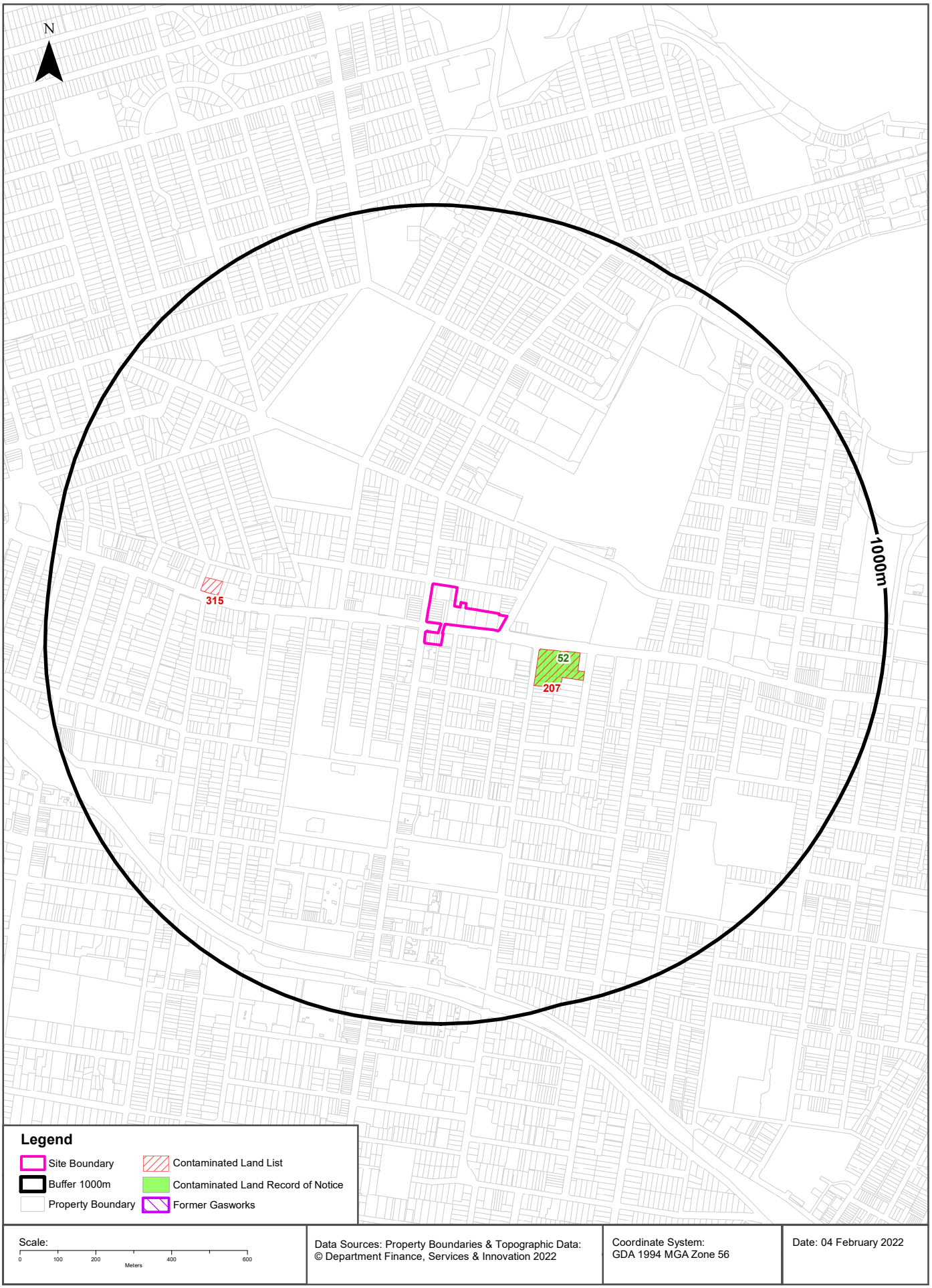
Parcels that make up a small percentage of the total site area have not been labelled for increased legibility.

Coordinate System: GDA 1994 MGA Zone 56

Date: 04 February 2022

Contaminated Land

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134



Contaminated Land

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134

List of NSW contaminated sites notified to EPA

Records from the NSW EPA Contaminated Land list within the dataset buffer:

Map Id	Site	Address	Suburb	Activity	Management Class	Status	Location Confidence	Dist	Direction
207	Burwood STA Depot	Cnr Shaftesbury and Parramatta Roads	Burwood	Other Industry	Contamination formerly regulated under the CLM Act	Current EPA List	Premise Match	117m	South East
315	Caltex Service Station	89 Parramatta Road	Concord	Service Station	Regulation under CLM Act not required	Current EPA List	Premise Match	546m	West

The values within the EPA site management class in the table above, are given more detailed explanations in the table below:

EPA site management class	Explanation
Contamination being managed via the planning process (EP&A Act)	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation. The contamination of this site is managed by the consent authority under the Environmental Planning and Assessment Act 1979 (EP&A Act) planning approval process, with EPA involvement as necessary to ensure significant contamination is adequately addressed. The consent authority is typically a local council or the Department of Planning and Environment.
Contamination currently regulated under CLM Act	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation under the Contaminated Land Management Act 1997 (CLM Act). Management of the contamination is regulated by the EPA under the CLM Act. Regulatory notices are available on the EPA's Contaminated Land Public Record of Notices.
Contamination currently regulated under POEO Act	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation. Management of the contamination is regulated under the Protection of the Environment Operations Act 1997 (POEO Act). The EPA's regulatory actions under the POEO Act are available on the POEO public register.
Contamination formerly regulated under the CLM Act	The EPA has determined that the contamination is no longer significant enough to warrant regulation under the Contaminated Land Management Act 1997 (CLM Act). The contamination was addressed under the CLM Act.
Contamination formerly regulated under the POEO Act	The EPA has determined that the contamination is no longer significant enough to warrant regulation. The contamination was addressed under the Protection of the Environment Operations Act 1997 (POEO Act).
Contamination was addressed via the planning process (EP&A Act)	The EPA has determined that the contamination is no longer significant enough to warrant regulation. The contamination was addressed by the appropriate consent authority via the planning process under the Environmental Planning and Assessment Act 1979 (EP&A Act).
Ongoing maintenance required to manage residual contamination (CLM Act)	The EPA has determined that ongoing maintenance, under the Contaminated Land Management Act 1997 (CLM Act), is required to manage the residual contamination. Regulatory notices under the CLM Act are available on the EPA's Contaminated Land Public Record of Notices.
Regulation being finalised	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation under the Contaminated Land Management Act 1997. A regulatory approach is being finalised.
Regulation under the CLM Act not required	The EPA has completed an assessment of the contamination and decided that regulation under the Contaminated Land Management Act 1997 is not required.
Under assessment	The contamination is being assessed by the EPA to determine whether regulation is required. The EPA may require further information to complete the assessment. For example, the completion of management actions regulated under the planning process or Protection of the Environment Operations Act 1997. Alternatively, the EPA may require information via a notice issued under s77 of the Contaminated Land Management Act 1997 or issue a Preliminary Investigation Order.

NSW EPA Contaminated Land List Data Source: Environment Protection Authority

© State of New South Wales through the Environment Protection Authority

Contaminated Land

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134

Contaminated Land: Records of Notice

Record of Notices within the dataset buffer:

Map Id	Name	Address	Suburb	Notices	Area No	Location Confidence	Distance	Direction
52	Burwood STA Depot	Cnr Shaftesbury and Parramatta Roads	Burwood	3 former	3188	Premise Match	117m	South East

Contaminated Land Records of Notice Data Source: Environment Protection Authority
© State of New South Wales through the Environment Protection Authority
Terms of use and disclaimer for Contaminated Land: Record of Notices, please visit http://www.epa.nsw.gov.au/clm/clmdisclaimer.htm

Former Gasworks

Former Gasworks within the dataset buffer:

Map Id	Location	Council	Further Info	Location Confidence	Distance	Direction
N/A	No records in buffer					

Former Gasworks Data Source: Environment Protection Authority
© State of New South Wales through the Environment Protection Authority

Waste Management & Liquid Fuel Facilities

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134



Waste Management & Liquid Fuel Facilities

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134

National Waste Management Site Database

Sites on the National Waste Management Site Database within the dataset buffer:

Site Id	Owner	Name	Address	Suburb	Class	Landfill	Reprocess	Transfer	Comments	Loc Conf	Dist	Direction
N/A	No records in buffer											

Waste Management Facilities Data Source: Geoscience Australia
Creative Commons 3.0 © Commonwealth of Australia http://creativecommons.org/licenses/by/3.0/au/deed.en

National Liquid Fuel Facilities

National Liquid Fuel Facilties within the dataset buffer:

Map Id	Owner	Name	Address	Suburb	Class	Operational Status	Operator	Revision Date	Loc Conf	Dist	Direction
4687	7-Eleven Pty Ltd	Burwood	Parramatta Road	Burwood	Petrol Station	Operational		13/07/2012	Premise Match	46m	South East
4228	Caltex	Caltex Woolworths Concord	87-89 Parramatta Road	Concord	Petrol Station	Operational		25/07/2011	Premise Match	546m	West
4229	Caltex	Woolworths Caltex Burwood	87-89 Parramatta Road	Concord	Petrol Station	Operational		25/07/2011	Premise Match	546m	West
4628	Shell	Coles Express Five Dock	211 Parramatta Road	Croydon	Petrol Station	Operational		25/07/2011	Premise Match	608m	East

National Liquid Fuel Facilities Data Source: Geoscience Australia
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PFAS Investigation & Management Programs

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134

EPA PFAS Investigation Program

Sites that are part of the EPA PFAS investigation program, within the dataset buffer:

Map ID	Site	Address	Loc Conf	Dist	Dir
N/A	No records in buffer				

EPA PFAS Investigation Program: Environment Protection Authority
© State of New South Wales through the Environment Protection Authority

Defence PFAS Investigation Program

Sites being investigated by the Department of Defence for PFAS contamination within the dataset buffer:

Map ID	Base Name	Address	Loc Conf	Dist	Dir
N/A	No records in buffer				

Defence PFAS Investigation Program Data Custodian: Department of Defence, Australian Government

Defence PFAS Management Program

Sites being managed by the Department of Defence for PFAS contamination within the dataset buffer:

Map ID	Base Name	Address	Loc Conf	Dist	Dir
N/A	No records in buffer				

Defence PFAS Management Program Data Custodian: Department of Defence, Australian Government

Airservices Australia National PFAS Management Program

Sites being investigated or managed by Airservices Australia for PFAS contamination within the dataset buffer:

Map ID	Site Name	Impacts	Loc Conf	Dist	Dir
N/A	No records in buffer				

Airservices Australia National PFAS Management Program Data Custodian: Airservices Australia

Defence Sites

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134

Defence 3 Year Regional Contamination Investigation Program

Sites which have been assessed as part of the Defence 3 Year Regional Contamination Investigation Program within the dataset buffer:

Property ID	Base Name	Address	Known Contamination	Loc Conf	Dist	Dir
N/A	No records in buffer					

Defence 3 Year Regional Contamination Investigation Program, Data Custodian: Department of Defence, Australian Government

EPA Other Sites with Contamination Issues

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134

EPA Other Sites with Contamination Issues

This dataset contains other sites identified on the EPA website as having contamination issues. This dataset currently includes:

- James Hardie asbestos manufacturing and waste disposal sites
- Radiological investigation sites in Hunter's Hill
- Pasminco Lead Abatement Strategy Area

Sites within the dataset buffer:

Site Id	Site Name	Site Address	Dataset	Comments	Location Confidence	Distance	Direction
N/A	No records in buffer						

EPA Other Sites with Contamination Issues: Environment Protection Authority
© State of New South Wales through the Environment Protection Authority

Current EPA Licensed Activities

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134



EPA Activities

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134

Licensed Activities under the POEO Act 1997

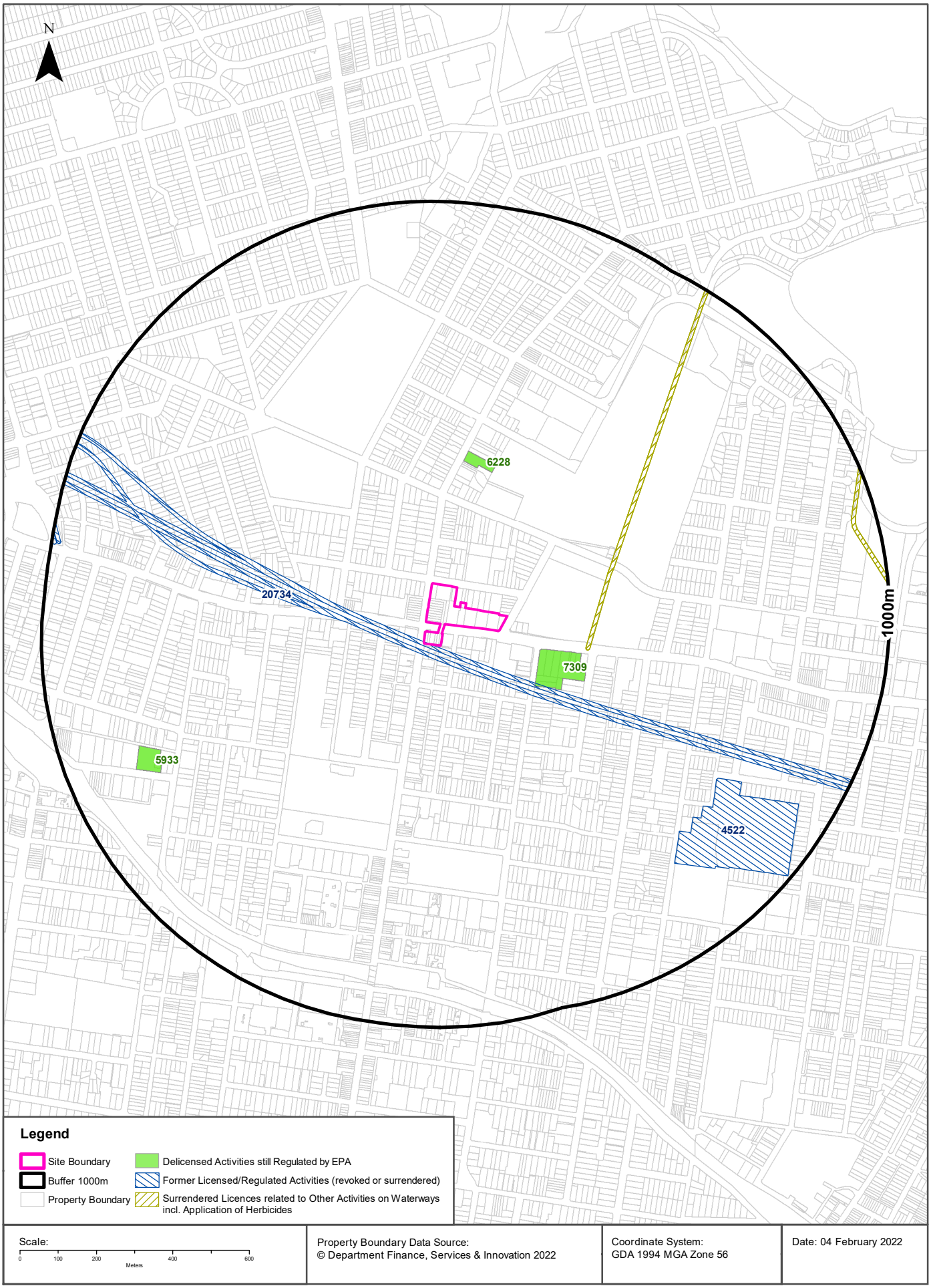
Licensed activities under the Protection of the Environment Operations Act 1997, within the dataset buffer:

EPL	Organisation	Name	Address	Suburb	Activity	Loc Conf	Distance	Direction
21247	Metro Trains Sydney Pty Ltd		SYDNEY METRO, ROUSE HILL, NSW 2155		Railway systems activities	Network of Features	0m	On-site
12208	SYDNEY TRAINS		SYDNEY TRAINS, HAYMARKET, NSW 1238		Railway systems activities	Network of Features	852m	South West

POEO Licence Data Source: Environment Protection Authority
© State of New South Wales through the Environment Protection Authority

Delicensed & Former Licensed EPA Activities

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134



EPA Activities

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134

Delicensed Activities still regulated by the EPA

Delicensed activities still regulated by the EPA, within the dataset buffer:

Licence No	Organisation	Name	Address	Suburb	Activity	Loc Conf	Distance	Direction
7309	STATE TRANSIT AUTHORITY OF NSW	STATE TRANSIT AUTHORITY OF NSW - BURWOOD BUS DEPOT	CNR PARRAMATTA & SHAFTSBURY ROADS	BURWOOD	Hazardous, Industrial or Group A Waste Generation or Storage	Premise Match	117m	South East
6228	OWEN FERGUSON HEALTH PTY. LTD.	CANADA BAY PRIVATE HOSPITAL	55 BURWOOD ROAD	CONCORD	Hazardous, Industrial or Group A Waste Generation or Storage	Premise Match	314m	North
5933	HCOA OPERATIONS (AUSTRALIA) PTY LIMITED	STRATHFIELD PRIVATE HOSPITAL	3 EVERTON ROAD	STRATHFIELD	Hazardous, Industrial or Group A Waste Generation or Storage	Premise Match	744m	South West

Delicensed Activities Data Source: Environment Protection Authority
© State of New South Wales through the Environment Protection Authority

Former Licensed Activities under the POEO Act 1997, now revoked or surrendered

Former Licensed activities under the Protection of the Environment Operations Act 1997, now revoked or surrendered, within the dataset buffer:

Licence No	Organisation	Location	Status	Issued Date	Activity	Loc Conf	Distance	Direction
20734	CPB CONTRACTORS PTY LIMITED	WestConnex M4 East, WestConnex M4 East, Homebush bay Drive to Parramatta Road, BURWOOD, NSW 2134, BURWOOD	Surrendered	26/02/2016	Road construction	Network of Features	0m	On-site
4653	LUHRMANN ENVIRONMENT MANAGEMENT PTY LTD	WATERWAYS THROUGHOUT NSW	Surrendered	06/09/2000	Other Activities / Non Scheduled Activity - Application of Herbicides	Network of Features	221m	North East
4838	Robert Orchard	Various Waterways throughout New South Wales - SYDNEY NSW 2000	Surrendered	07/09/2000	Other Activities / Non Scheduled Activity - Application of Herbicides	Network of Features	221m	North East
6630	SYDNEY WEED & PEST MANAGEMENT PTY LTD	WATERWAYS THROUGHOUT NSW - PROSPECT, NSW, 2148	Surrendered	09/11/2000	Other Activities / Non Scheduled Activity - Application of Herbicides	Network of Features	221m	North East
4522	BURWOOD COUNCIL	34 CHELTENHAM ROAD, CROYDON, NSW 2132	Surrendered	14/11/2000	Waste disposal by application to land	Premise Match	689m	South East

Former Licensed Activities Data Source: Environment Protection Authority
© State of New South Wales through the Environment Protection Authority

Historical Business Directories

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134



Legend

- Site Boundary
- Buffer 100m
- Property Boundary
- Business directory records mapped to a specific premise
- Business directory records mapped to a road intersection
- Business directory records mapped to a road corridor
- Business directory records mapped to a general area

Scale: 0 30 60 90 120 Meters

Coordinate System: GDA 1994 MGA Zone 56

Date: 04 February 2022

Data Sources: Reproduced with permission of UBD and Hardie Grant Media Pty Ltd DD 01/08/2018

Historical Business Directories

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134

Business Directory Records 1950-1991
Premise or Road Intersection Matches

Universal Business Directory records from years 1991, 1986, 1982, 1978, 1975, 1970, 1965, 1961 & 1950, mapped to a premise or road intersection within the dataset buffer:

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
1	Motor Transmission Specialists	A & D Auto Transmissions, 336A Parramatta Rd., Burwood 2134	55257	1991	Premise Match	0m	On-site
	MOTOR TRANSMISSION SPECIALISTS.	A & D Auto Transmissions, 336A Parramatta Rd., Burwood. 2134	68027	1986	Premise Match	0m	On-site
	MOTOR CAR RADIO. SPECIALISTS, .	Universal Car Radios, 336B Parramatta Rd., Burwood. 2134	61892	1986	Premise Match	0m	On-site
	MOTOR CAR &/OR TRUCK DEALERS - NEW &/OR USED. (M5840)	Cremer Cars Pty. Ltd., 336 Parramatta Rd., Burwood. 2134.	54755	1982	Premise Match	0m	On-site
	MOTOR CAR RADIO SPECIALISTS.(M5680)	Universal Car Radios, 336B Parramatta Rd., Burwood. 2134.	54626	1982	Premise Match	0m	On-site
	MOTOR CAR &/OR TRUCK DEALERS-NEW &/OR USED.	Cremer Cars Pty. Ltd., 336 Parramatta Rd., Burwood. 2134	48249	1978	Premise Match	0m	On-site
	MOTOR CAR RADIO SPECIALISTS.	Universal Car Radios, 336b Parramatta Rd., Burwood. 2134	48117	1978	Premise Match	0m	On-site
	MOTOR CAR &/OR TRUCK DEALERS- NEW &/OR USED.	CremerCars Pty. Ltd., 336 Parramatta Rd., Burwood. 2134.	57113	1975	Premise Match	0m	On-site
	MOTOR CAR RADIO SPECIALISTS.	Universal Car Radios., 336b Parramatta Rd., Burwood. 2134	56974	1975	Premise Match	0m	On-site
	RADIO &/OR TELEVISION SALES &/OR SERVICEMEN.	Universal Car Radios., 336c Parramatta Rd., Burwood. 2134	71739	1975	Premise Match	0m	On-site
	MOTOR CAR/TRUCK DEALERS-NEW/USED (M520)	Cromer Cars., 336 Parramatta Rd., Burwood	335919	1970	Premise Match	0m	On-site
	MOTOR WRECKERS (M760)	Dowling & Reeves., Rear 336b Parramatta Rd., Burwood	342815	1970	Premise Match	0m	On-site
	MOTOR CAR RADIO SPECS. (M544)	Universal Car Radios., 336c Parramatta Rd., Burwood	335722	1970	Premise Match	0m	On-site
	RADIO &/OR T.V. COMPONENT PARTS DEALERS (R060)	Universal Car Radios., 336c Parramatta Rd., Burwood	354008	1970	Premise Match	0m	On-site
	RADIO &/OR TELEVISION SALES & SERVICEMEN (R090)	Universal Car Radios., 336c Parramatta Rd., BURWOOD	354577	1970	Premise Match	0m	On-site
	Motor Car/Truck Dealers - New/Used	Cremer Cars, 336 Parramatta Rd., Burwood	120585	1965	Premise Match	0m	On-site
	Welders - Electric &/or Oxy	Dowling & Reeves, Rear 336b Parramatta Rd, Burwood	156423	1965	Premise Match	0m	On-site
	Motor Wreckers	Dowling & Reeves, Rear 336b Parramatta Rd., Burwood	127417	1965	Premise Match	0m	On-site
	Motor Car Radio Specs.	Universal Car Radios, 336b Parramatta Rd., Burwood	121206	1965	Premise Match	0m	On-site
	MOTOR CAR/TRUCK DEALERS—NEW/USED	Cremer Cars, 336 Parramatta Rd., Burwood	344967	1961	Premise Match	0m	On-site
	TAILORS-LADIES'/GENT.'S	Santangelo, G., 336b Parramatta Rd., Burwood	255097	1961	Premise Match	0m	On-site
	MOTOR CAR RADIO SPECS.	Universal Car Radios Pty. Ltd., 336b-336c Parramatta Rd., Burwood	344786	1961	Premise Match	0m	On-site
	HIRE CAR SERVICES	Blackmore, F. N., 336b Parramatta Rd., Burwood	62136	1950	Premise Match	0m	On-site
	SECONDHAND DEALERS	Burwood Bargain Store, 336 Parramatta Rd., Burwood	101090	1950	Premise Match	0m	On-site
	MOTOR CAR & TRUCK DEALERS-USED	Cremer Cars, 336a Parramatta Rd., Burwood	82336	1950	Premise Match	0m	On-site

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
1	MOTOR CAR &/OR TRUCK DEALERS	Cremer Cars, 336a Parramatta Rd., Burwood	82627	1950	Premise Match	0m	On-site
	MOTOR BODY BUILDERS	Garforth, F., 336b Parramatta Rd., Burwood	82082	1950	Premise Match	0m	On-site
	HIRE CAR SERVICES	Rex Hire Car Service, 336b Parramatta Rd., Burwood	62293	1950	Premise Match	0m	On-site
	TAXIS	Rex Hire Service, 336b Parramatta Rd., Burwood	107469	1950	Premise Match	0m	On-site
	MOTOR BODY BUILDERS	Tyrell and Garforth, 336b Parramatta Rd., Burwood	82205	1950	Premise Match	0m	On-site
	MOTOR TRIMMERS	Tyrrell and Garfort, 336b Parramatta Rd., Burwood	87130	1950	Premise Match	0m	On-site
	MOTOR PAINTERS	Tyrrell and Garforth, 336b Parramatta Rd., Burwood	85074	1950	Premise Match	0m	On-site
	MOTOR PANEL BEATERS	Tyrrell and Garforth, 336b Parramatta Rd., Burwood	85555	1950	Premise Match	0m	On-site
2	Air Compressors for Hire	Cordukes Hire, 3 Parramatta Rd., Concord 2137	33824	1991	Premise Match	0m	On-site
	Hire Services	Cordukes Hire, 3 Parramatta Rd., Concord. 2137	48405	1991	Premise Match	0m	On-site
	AIR COMPRESSORS &/OR EQUIPMENT FOR HIRE.	Cordukes Hire, 3 Parramatta Rd., Concord. 2137	2022	1986	Premise Match	0m	On-site
	BUILDERS EQUIPMENT HIRES.	Cordukes Hire, 3 Parramatta Rd., Concord. 2137	8321	1986	Premise Match	0m	On-site
	HIRING SERVICES.	Cordukes Hire, 3 Parramatta Rd., Concord. 2137	45760	1986	Premise Match	0m	On-site
	MOTOR TRUCK HIRERS.	Cordukes Hire, 3 Parramatta Rd., Concord. 2137	68299	1986	Premise Match	0m	On-site
	MOTOR TRUCK HIRERS. (M8300)	Concord Plant Hire Pty. Ltd 3 Parramatta Rd., Concord. 2137.	59855	1982	Premise Match	0m	On-site
	AIR COMPRESSORS &/OR EQUIPMENT FOR HIRE. (A3420)	Concord Plant Hire Pty. Ltd., 3 Parramatta Rd., Concord. 2137.	1852	1982	Premise Match	0m	On-site
	BUILDERS EQUIPMENT HIRERS. (B6960)	Concord Plant Hire Pty. Ltd., 3 Parramatta Rd., Concord. 2137.	9500	1982	Premise Match	0m	On-site
	HIRING SERVICES. (H4200)	Concord Plant Hire Pty. Ltd., 3 Parramatta Rd., Concord. 2137.	40032	1982	Premise Match	0m	On-site
	BUILDERS EQUIPMENT HIRERS. (B6960)	CONCORD PLANT HIRE Pty. Ltd., 3 Parramatta Road, Concord, 2137	9477	1982	Premise Match	0m	On-site
	BUILDERS EQUIPMENT HIRERS.	Concord Plant Hire Pty. Ltd. 3 Parramatta Rd. Concord. 2137	7968	1978	Premise Match	0m	On-site
	AIR COMPRESSORS &/OR EQUIPMENT FOR HIRE.	Concord Plant Hire Pty. Ltd., 3 Parramatta Rd, Concord. 2137	1847	1978	Premise Match	0m	On-site
	BUILDERS EQUIPMENT HIRERS.	Concord Plant Hire Pty. Ltd., 3 Parramatta Rd., Concord. 2137	7988	1978	Premise Match	0m	On-site
	HIRING SERVICES.	Concord Plant Hire Pty. Ltd., 3 Parramatta Rd., Concord. 2137	35580	1978	Premise Match	0m	On-site
	CARAVAN DEALERS &/OR HIRERS(C096)	Burwood Caravan Co. Pty. Ltd., 3 Parramatta Rd., Concord	277295	1970	Premise Match	0m	On-site
	INSURANCE COMPANIES-GENERAL(I530)	Sapphire Insurance Co. Pty. Ltd., 3 Parramatta Rd., Concord	320311	1970	Premise Match	0m	On-site
	CARAVAN DEALERS &/OR HIRERS(C096)	Starline Caravan Co. Pty. Ltd., 3 Parramatta Rd., Concord	277324	1970	Premise Match	0m	On-site
	Caravan Dealers	Burwood Caravans., 3 Parramatta Rd., Concord	62009	1965	Premise Match	0m	On-site
	MOTOR CAR/TRUCK DEALERS—NEW/USED	Metropolitan Truck Sales Pty. Ltd., 3 Parramatta Rd., Concord.	345228	1961	Premise Match	0m	On-site
	BAKERS-BREAD	Percival, E. S. Ltd.5 Parramatta Rd., Burwood	5423	1950	Premise Match	0m	On-site
3	Partition Mfrs &/or Dists	Cordukes J.P. Pty. Ltd., 9 Parramatta Rd., Concord. 2137	56871	1991	Premise Match	0m	On-site
	Builders &/or Building Contractors	Cordukes, J. P. Pty. Ltd., 9 Parramatta Rd, Concord 2137	36787	1991	Premise Match	0m	On-site
	BUILDERS &/OR BUILDING CONTRACTORS.	Cordukes, J. P. Pty. Ltd., 9 Parramatta Rd., Concord. 2137	8058	1986	Premise Match	0m	On-site

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
3	PARTITIONS.	Cordukes, J. P. Pty. Ltd., 9 Parramatta Rd., Concord. 2137	72328	1986	Premise Match	0m	On-site
	BUILDERS &/OR BUILDING CONTRACTORS. (B6920)	Cordukes, J. P. Pty. Ltd., 9 Parramatta Rd., Concord. 2137.	9202	1982	Premise Match	0m	On-site
	BUILDERS &/OR BUILDING CONTRACTORS.	Cordukes. J. P. Pty. Ltd., 9 Parramatta Rd., Concord. 2137	7653	1978	Premise Match	0m	On-site
	AIR COMPRESSOR & EQUIPMENT FOR HIRE	Concord Plant Hire Pty. Ltd., 7 Parramatta Rd., Concord	261027	1970	Premise Match	0m	On-site
	BUILDERS' EQUIPMENT HIRERS (B802)	Concord Plant Hire Pty. Ltd., 7 Parramatta Rd., Concord	270966	1970	Premise Match	0m	On-site
	BUILDERS & CONTRACTORS (B800)	Corduke, J.P. Pty. Limited., 9 Parramatta Rd., Concord	270046	1970	Premise Match	0m	On-site
	FUEL MERCHANTS-COAL/COKE,WOOD (F650)	Lees of Concord., 7 Parramatta Rd., Concord, 2137	308278	1970	Premise Match	0m	On-site
	GRAVEL, SAND/SOIL SUPPLIES (G570)	Lees of Concord., 7 Parramatta Rd., Concord. 2137	311940	1970	Premise Match	0m	On-site
	Builders' Equipment Hirers	Concord Plant Hire Pty, Ltd., 7 Parramatta Rd., Concord	55742	1965	Premise Match	0m	On-site
	Air Compressors & Equipment For Hire	Concord Plant Hire Pty. Ltd., 7 Parramatta Rd., Concord	45579	1965	Premise Match	0m	On-site
	Earth-Moving Mach. Hirers	Concord Plant Hire Pty. Ltd., 7 Parramatta Rd., Concord	76976	1965	Premise Match	0m	On-site
	Builders & Contractors	Corduke, J. P. Pty. Limited, 9 Parramatta Rd., Concord	55212	1965	Premise Match	0m	On-site
	Builders & Contractors - (M.M.B.A.)	Cordukes, J. P. Pty. Ltd., 9 Parramatta Rd. Concord	54624	1965	Premise Match	0m	On-site
	BUILDERS & CONTRACTORS-(M.M.B.A.)	Cordukes, J. P. Pty. Ltd 9 Parramatta Rd. CONCORD	276983	1961	Premise Match	0m	On-site
	GRAVEL, SAND/SOIL SUPPLIES	Lees Building Yard & Fuel Supply 7 Parramatta Rd., Concord	319924	1961	Premise Match	0m	On-site
	FUEL MERCHANTS-COAL/COKE, WOOD	Lees Building Yard & Fuel Supply, 7 Parramatta Rd., Concord	316562	1961	Premise Match	0m	On-site
	GRAVEL, SAND/SOIL SUPPLIES	Lees Building Yard & Fuel Supply, 7 Parramatta Rd., Concord	319925	1961	Premise Match	0m	On-site
	ENGINEERS-GENERAL/MFRG./ MECHANICAL	Morton Engineering Co., 7 Parramatta Rd., Concord	306805	1961	Premise Match	0m	On-site
	RUBBER MOULDING DIE MFRS.	Morton Engineering Co., 7 Parramatta Rd., Concord	247058	1961	Premise Match	0m	On-site
	MOTOR GARAGES & ENGINEERS	Swalle, G., 9 Parramatta Rd., Concord	348249	1961	Premise Match	0m	On-site
	GARDEN SUPPLIES-RETAIL	“Lees” (E. and A. W. Lee), 7 Parramatta Rd., Concord	53945	1950	Premise Match	0m	On-site
	GRAVEL, SAND & SOIL SUPPLIES	“Lees” (E. and A. W. Lee), 7 Parramatta Rd., Concord	55096	1950	Premise Match	0m	On-site
	BUILDERS’ SUPPLIERS	Lees, 7 Parramatta Rd., Concord	11822	1950	Premise Match	0m	On-site
	FUEL MERCHANTS-COAL, COKE & WOOD	Lees, 7 Parramatta Rd., Concord	51785	1950	Premise Match	0m	On-site
	MOTOR PAINTERS	Swaile, C., 9 Parramatta Rd,. Concord	85054	1950	Premise Match	0m	On-site
	MOTOR PANEL BEATERS	Swaile, C., 9 Parramatta Rd., Concord	85534	1950	Premise Match	0m	On-site
	MOTOR GARAGES &/OR ENGINEERS	Swaile, G., 9 Parramatta Rd., Concord	84447	1950	Premise Match	0m	On-site
	MOTOR BODY BUILDERS	Swalle, C., 9 Parramatta Rd., Concord	82198	1950	Premise Match	0m	On-site
	WELDERS-ELECTRIC &/OR OXY	Swalle, G., 9 Parramatta Rd., Concord	113104	1950	Premise Match	0m	On-site
	STORAGE CONTRACTORS	Underfills, G. and Son, 9 Parramatta Rd., Concord	105799	1950	Premise Match	0m	On-site
	FURNITURE REMOVALISTS &/OR STORAGE	Underhill, G. and Son, 9 Parramatta Rd., Concord	53318	1950	Premise Match	0m	On-site
4	Bath, Basin &/or Sink Mfrs &/or Dists	Sannine Bathrooms Pty Ltd, 3 Burwood Rd, Concord 2137	35676	1991	Premise Match	0m	On-site
	Bathroom Equipment &/or Fittings Mfrs &/or Dists	Sannine Bathrooms Pty Ltd, 3 Burwood Rd, Concord 2137	35737	1991	Premise Match	0m	On-site

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4	FURNITURE &/OR FURNISHINGS-RETAIL. (F7625)	Nicholas, F. A. & Sons, 3 Burwood Rd., Concord. 2137.	34780	1982	Premise Match	0m	On-site
	FURNITURE &/OR FURNISHINGS-RETAIL.	Nicholas, F. A. & Sons, 3 Burwood Rd., Concord. 2137	31484	1978	Premise Match	0m	On-site
	FURNITURE-HOUSEHOLD-RETAILERS	Nicholas, F. A. A Sons Pty. Ltd., 3 Burwood Rd., Concord	309536	1970	Premise Match	0m	On-site
	FLOOR MATERIAL SPECIALISTS (F315)	Nicholas, F.A.& Sons Pty. Ltd., 3 Burwood Rd., Concord	304121	1970	Premise Match	0m	On-site
	CARPET & FLOOR COVERING RETAILERS &/OR SPECIALISTS(C135)	Nicholas, FA & Sons Pty. Ltd., 3-5 Burwood Rd., Concord	277792	1970	Premise Match	0m	On-site
	Carpet & Floor Covering Retailers &/Specialists	Nicholas, F. A. & Sons Pty. Ltd., 3-5 Burwood Rd. Concord	62540	1965	Premise Match	0m	On-site
	FURNITURE-HOUSEHOLD-RETAILERS	Nicholas., 3 Burwood Rd., Concord	53625	1950	Premise Match	0m	On-site
5	FISH MERCHANTS-RETAIL.	Capri, The, 344 Parramatta Rd., Burwood. 2134	33108	1986	Premise Match	0m	On-site
	SANDWICH &/OR LUNCHEON SHOPS.	Capri, The, 344 Parramatta Rd., Burwood. 2134	84323	1986	Premise Match	0m	On-site
	TAKE-AWAY FOODS.	Capri, The, 344 Parramatta Rd., Burwood. 2134.	90576	1986	Premise Match	0m	On-site
	TAKE-AWAY FOODS.	Vesuvio Pizza Bar, 344A Parramatta Rd., Burwood. 2134	91921	1986	Premise Match	0m	On-site
	TAKE-AWAY FOODS. (T0235)	Capri, The, 344 Parramatta Rd., Burwood. 2134	78209	1982	Premise Match	0m	On-site
	FISH MERCHANTS - RETAIL (F2825)	Capri, The, 344 Parramatta Rd., Burwood. 2134.	30913	1982	Premise Match	0m	On-site
	SANDWICH &/OR LUNCHEONSHOPS. (S0600)	Capri, The, 344 Parramatta Rd., Burwood. 2134.	72927	1982	Premise Match	0m	On-site
	FISH MERCHANTS-RETAIL.	Tucka Spot, The 344 Parramatta Rd., Burwood. 2134	28138	1978	Premise Match	0m	On-site
	SANDWICH &/OR LUNCHEON SHOPS.	Tucka Spot., The, 344 Parramatta Rd., Burwood. 2134	64574	1978	Premise Match	0m	On-site
	TAKE-AWAY FOODS.	Tucka Spot., The, 344 Parramatta Rd., Burwood. 2134	69537	1978	Premise Match	0m	On-site
	FISH MERCHANTS-RETAIL	Tucka Spot, The, 344 Parramatta Rd., Burwood. 2134.	32651	1975	Premise Match	0m	On-site
	SANDWICH &/OR LUNCHEON SHOPS.	Tucka Spot, The., 344 Parramatta Rd., Burwood. 2134	75514	1975	Premise Match	0m	On-site
	TAKE-AWAY FOODS.	Tucka Spot, The., 344 Parramatta Rd., Burwood. 2134	82057	1975	Premise Match	0m	On-site
	FISH MERCHANTS-RETAIL (F245)	Peters Seafoods., 344 Parramatta Rd., Burwood	303671	1970	Premise Match	0m	On-site
	FISH MERCHANTS-RETAIL (F245)	Zal, S.C., 344 Parramatta Rd., Burwood	303866	1970	Premise Match	0m	On-site
	Fish Merchants - Retail	Peters Seafoods, 344 Parramatta Rd., Burwood	87018	1965	Premise Match	0m	On-site
	Fish Merchants - Retail	Zai, S. C., 344 Parramatta Rd., Burwood	87199	1965	Premise Match	0m	On-site
	FISH MERCHANTS-RETAIL	Zal, S. C., 344 Parramatta Rd., Burwood	311307	1961	Premise Match	0m	On-site
	FISH MERCHANTS-RETAIL	Sai, J. S. C., 344 Parramatta Rd., Burwood	44561	1950	Premise Match	0m	On-site
	FISH MERCHANTS-RETAIL	Zia, S. C., 344 Parramatta Rd., Burwood	44647	1950	Premise Match	0m	On-site
6	MOTOR PANEL BEATERS &/OR SPRAY PAINTERS.	Master Panel Beaters Pty. Ltd., 11 Parramatta Rd., Concord. 2137	66541	1986	Premise Match	0m	On-site
	MOTOR ACCESSORIES – RETAIL .	Repco Auto Parts (N.S.W.) Pty. Ltd., 11 Parramatta Rd., Concord. 2137	61142	1986	Premise Match	0m	On-site
	MOTOR ACCESSORIES-ELECTRIC.	Repco Auto Parts (N.S.W.) Pty. Ltd., 11 Parramatta Rd., Concord. 2137	60690	1986	Premise Match	0m	On-site
	MOTOR SPARE PARTS DEALERS RETAIL	Repco Auto Parts (N.S.W.) Pty. Ltd., 11 Parramatta Rd., Concord. 2137	67440	1986	Premise Match	0m	On-site
	MOTOR PANEL BEATERS &/OR SPRAY PAINTERS. (M7360)	Master Panel Beaters Pty. Ltd., 11 Parramatta Rd., Concord. 2137.	58522	1982	Premise Match	0m	On-site

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6	MOTOR SPARE PARTS DEALERS -RETAIL. (M7840)	Repco Auto Parts (N. S.W.) Pty. Ltd., 11 Parramatta Rd., Concord. 2137	59240	1982	Premise Match	0m	On-site
	MOTOR ACCESSORIES DEALERS.(M4690)	Repco Auto Parts (NS.W.) Pty. Ltd, 11 Parramatta Rd., Concord. 2137.	53916	1982	Premise Match	0m	On-site
	MOTOR ACCESSORIES-ELECTRIC. (M4720)	Repco Auto Parts (NS.W.) Pty. Ltd., 11 Parramatta Rd., Concord. 2137	54014	1982	Premise Match	0m	On-site
	BATTERY SALES & SERVICE (B230)	Askew & Arnold Pty. Ltd., 11 Parramatta Rd., Concord	265315	1970	Premise Match	0m	On-site
	MOTOR GARAGES & ENGINEERS(M6S6)	Askew & Arnold Pty. Ltd., 11 Parramatta Rd., CONCORD	337217	1970	Premise Match	0m	On-site
	MOTOR ACCESSORIES-W'SALE(M460)	Askew & Arnold Pty. Ltd., 11-13 Parramatta Rd., Cncrd	334997	1970	Premise Match	0m	On-site
	MOTOR ACCESSORIES/DEALERS (M448)	Askew & Arnold Pty. Ltd., 11-13 Parramatta Rd., Concord	334521	1970	Premise Match	0m	On-site
	MOTOR SPARE PARTS DEALERS-RETAIL (M728)	Askew & Arnold Pty. Ltd., 11-13 Parramatta Rd., Concord	341701	1970	Premise Match	0m	On-site
	MOTOR SPARE PARTS MFRS. &/OR WHOLESALERS (M732)	Askew & Arnold Pty. Ltd., 11-13 Parramatta Rd., Concord	342086	1970	Premise Match	0m	On-site
	MOTOR STEERING SPECIALISTS (M736)	Askew & Arnold Pty. Ltd., 11-13 Parramatta Rd., Concord	342264	1970	Premise Match	0m	On-site
	MOTOR BRAKE SERVICES (M512)	Askew & Arnold Pty. Ltd., 11-13 Parramatta Rd., Concord, 2137	335486	1970	Premise Match	0m	On-site
	Motor Garages & Engineers	Askew & Arnold Pty. Ltd., 11-13 Parramatta Rd. Concord	122445	1965	Premise Match	0m	On-site
	Motor Accessories - W'sale	Askew & Arnold Pty. Ltd., 11-13 Parramatta Rd., Cncrd	119801	1965	Premise Match	0m	On-site
	Motor Accessories - Dealers	Askew & Arnold Pty. Ltd., 11-13 Parramatta Rd., Concord	119299	1965	Premise Match	0m	On-site
	Motor Spare Parts Dealers - Retail	Askew & Arnold Pty. Ltd., 11-13 Parramatta Rd., Concord	126319	1965	Premise Match	0m	On-site
	Motor Spare Parts Mfrs. &/or Wholesalers	Askew & Arnold Pty. Ltd., 11-13 Parramatta Rd., Concord	126708	1965	Premise Match	0m	On-site
	Motor Steering Specialists	Askew & Arnold Pty. Ltd., 11-13 Parramatta Rd., Concord	126858	1965	Premise Match	0m	On-site
	MOTOR GARAGES & ENGINEERS	Askew & Arnold Pty. Ltd., 11-13 Parramatta Rd. CONCORD	346532	1961	Premise Match	0m	On-site
	BATTERY SERVICE STATIONS	Askew & Arnold Pty. Ltd., 11-13 Parramatta Rd., Concord	271986	1961	Premise Match	0m	On-site
	MOTOR ACCESSORIES/DEALERS	Askew & Arnold Pty. Ltd., 11-13 Parramatta Rd., Concord	343374	1961	Premise Match	0m	On-site
	MOTOR ACCESSORIES—W'SALE	Askew & Arnold Pty. Ltd., 11-13 Parramatta Rd., Concord	343949	1961	Premise Match	0m	On-site
	MOTOR SPARE PARTS DEALERS—RETAIL	Askew & Arnold Pty. Ltd., 11-13 Parramatta Rd., Concord	351369	1961	Premise Match	0m	On-site
	MOTOR SPARE PARTS MFRS. &/OR WHOLESALERS	Askew & Arnold Pty. Ltd., 11-13 Parramatta Rd., Concord	351803	1961	Premise Match	0m	On-site
	MOTOR STEERING SPECIALISTS	Askew & Arnold Pty. Ltd., 11-13 Parramatta Rd., Concord	351958	1961	Premise Match	0m	On-site
	MOTOR SPARE PARTS DEALERS-RETAIL	Askew & Arnold Pty. Ltd., 11-13 Parramatta Rd, Concord	86579	1950	Premise Match	0m	On-site
	MOTOR GARAGES &/OR ENGINEERS	Askew and Arnold Pty, Ltd., 11-13 Parramatta Rd., Concord	83388	1950	Premise Match	0m	On-site
	BATTERY SERVICE STATIONS	Askew and Arnold Pty. Ltd., 11-13 Parramatta Rd., Concord	6575	1950	Premise Match	0m	On-site
	MOTOR ACCESSORIES-DEALER	Askew and Arnold Pty. Ltd., 11-13 Parramatta Rd., Concord	81475	1950	Premise Match	0m	On-site
	MOTOR ACCESSORIES-WHOLESALE	Askew and Arnold Pty. Ltd., 11-13 Parramatta Rd., Concord	81899	1950	Premise Match	0m	On-site
	MOTOR SERVICE STATIONS-PETROL, Etc.	Askew and Arnold Pty. Ltd., 11-13 Parramatta Rd., Concord	85756	1950	Premise Match	0m	On-site
	MOTOR SPARE PARTS DEALERS-RETAIL	Askew and Arnold Pty. Ltd., 11-13 Parramatta Rd., Concord	86580	1950	Premise Match	0m	On-site
	MOTOR STEERING SPECIALISTS	Askew and Arnold Pty. Ltd., 11-13 Parramatta Rd., Concord	86852	1950	Premise Match	0m	On-site

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7	HAIRDRESSERS-LADIES &/OR BEAUTY SALONS.	Mona's Hair Design Salon, 2A Burwood Rd., Burwood. 2134	42803	1986	Premise Match	0m	On-site
	HAIRDRESSERS-MENS.	Mona's Hair Design Salon, 2A Burwood Rd., Burwood. 2134	43945	1986	Premise Match	0m	On-site
	BEAUTY SALONS &/OR LADIES HAIRDRESSERS. (B2000)	Nuka Hair Design, 2a Burwood Rd., Burwood. 2134.	6285	1982	Premise Match	0m	On-site
	HAIRDRESSERS - GENTS. (H0550)	Nuka Hair Design, 2a Burwood Rd., Burwood. 2134.	38673	1982	Premise Match	0m	On-site
	BEAUTY SALONS &/OR LADIES HAIRDRESSERS.	Malcolm's Hairdressing Salon, 2a Burwood Rd., Burwood. 2134	5296	1978	Premise Match	0m	On-site
	HAIRDRESSERS-GENTS.	Malcolm's Hairdressing Salon, 2a Burwood Rd., Burwood. 2134	34633	1978	Premise Match	0m	On-site
	MOTOR TRIMMERS.	O'Donaghue's Auto Trim Pty. Ltd., 2B Burwood Rd., Burwood. 2134	62820	1975	Premise Match	0m	On-site
	ELECTRIC MOTORS-DEALERS &/OR WHOLESALERS	Gray, G. J. & Co. Pty. Ltd., 2a Burwood Rd., Burwood	301081	1961	Premise Match	0m	On-site
	RANGES-ELECTRIC-MFRS.	Gray, G. J. & Co. Pty. Ltd., 2a Burwood Rd., Burwood	364764	1961	Premise Match	0m	On-site
	ELECTRICAL SUPPLIES/APPLIANCES RETAILERS	Gray, G. J. (V Co. Pty. Ltd., 2a Burwood Rd., Burwood	303174	1961	Premise Match	0m	On-site
	REAL ESTATE AGENTS/VALUERS	Sheehan & Co., 2a Burwood Rd. BURWOOD	365171	1961	Premise Match	0m	On-site
	BUSINESS AGENTS &/OR BROKERS	Sheehan & Co., 2a Burwood Rd., Burwood	279668	1961	Premise Match	0m	On-site
	STOCK/STATION AGENTS	Sheehan & Co., 2a Burwood Rd., Burwood	254338	1961	Premise Match	0m	On-site
	MILK BARS & CONFECTIONERS	Psaltis, M., 2 Burwood Rd., Burwood	77226	1950	Premise Match	0m	On-site
8	HOTELS-LICENSED.	Oriental Hotel, 19 Parramatta Rd., Concord. 2137	46911	1986	Premise Match	0m	On-site
	HOTELS - LICENSED. (H7150)	Oriental Hotel, 19 Parramatta Rd., Concord. 2137.	40948	1982	Premise Match	0m	On-site
	HOTELS-LICENSED.	Oriental Hotel, 19 Parramatta Rd., Concord. 2137	36304	1978	Premise Match	0m	On-site
	HOTELS-LICENSED (H690)	Oriental Hotel., 15 Parramatta Rd., Concord	317478	1970	Premise Match	0m	On-site
	Hotels - Licensed	Oriental Hotel, Rubinson's, 15-19 Parramatta Rd., Concord	101790	1965	Premise Match	0m	On-site
	HOTELS—LICENSED	Oriental Hotel, 19 Parramatta Rd., Concord	325556	1961	Premise Match	0m	On-site
	HOTELS—LICENSED	Oriental Hotel, Rubinson's, 15-19 Parramatta Rd., Concord	325558	1961	Premise Match	0m	On-site
9	RESTAURANTS.	Reflections, 5 Burwood Rd., Concord, 2137	82695	1986	Premise Match	0m	On-site
	RESTAURANTS. (R5180)	Reflections, 5 Burwood Rd., Concord. 2137.	71626	1982	Premise Match	0m	On-site
10	FURNITURE &/OR FURNISHINGS-RETAIL. (F7625)	Sandra, J., 338 Parramatta Rd., Burwood. 2134.	34832	1982	Premise Match	0m	On-site
	FURNITURE-HOUSEHOLD RETAIL	Sandra, J., 338 Parramatta Rd., Burwood. 2134	31820	1978	Premise Match	0m	On-site
	FURNITURE-HOUSEHOLD RETAIL	Sandra, J., 338 Parramatta Rd., Burwood. 2134	36963	1975	Premise Match	0m	On-site
	BLIND MFRS.-HOLLAND (B405)	Sandra Blinds., 338 Parramatta Rd., Burwood	267295	1970	Premise Match	0m	On-site
	FURNITURE-HOUSEHOLD-RETAILERS	Sandra, J., 338 Parramatta Rd., Burwood	309579	1970	Premise Match	0m	On-site
	FURNITURE-HOUSEHOLD-RETAILERS	Sandra, John., 338 Parramatta Rd., Burwood	309580	1970	Premise Match	0m	On-site
	Blind Mfrs. - Holland	Sandra Blinds., 338 Parramatta Rd., Burwood	51756	1965	Premise Match	0m	On-site
	Furniture - Household - Retailers	Sandra, John, 338 Parramatta Rd., Burwood	93635	1965	Premise Match	0m	On-site
	Auctioneers - General	Sandra, John., 338 Parramatta Rd., Burwood	48437	1965	Premise Match	0m	On-site

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10	AUCTIONEERS-GENERAL	Sandra, John, 338 Parramatta Rd., Burwood	270074	1961	Premise Match	0m	On-site
	FURNITURE-HOUSEHOLD-RETAILERS	Sandra, John, 338 Parramatta Rd., Burwood	317873	1961	Premise Match	0m	On-site
	CAKE SHOPS & PASTRYCOOKS	“Fresh Cakes”, 338 Parramatta Rd., Burwood	16309	1950	Premise Match	0m	On-site
	CAKE & PASTRYCOOKS-WHOLESALE	Grainger and Sons, 338 Parramatta Rd., Burwood	16218	1950	Premise Match	0m	On-site
	CAKE SHOPS & PASTRYCOOKS	Grainger and Sons, 338 Parramatta Rd., Burwood	16728	1950	Premise Match	0m	On-site
	CATERERS	Grainger, W. G., 338 Parramatta Rd., Burwood	20612	1950	Premise Match	0m	On-site
11	FURNITURE-CANE-RETAIL (F7360)	West Cane, 21 Parramatta Rd Concord. 2137.	34430	1982	Premise Match	0m	On-site
	ELECTRIC MOTOR WINDING &/OR REWINDING SPECIALISTS.	Ampere Engineering Rear of 21 Parramatta Rd., Concord	22030	1978	Premise Match	0m	On-site
	ELECTRIC MOTOR WINDING &/OR REWINDING SPECIALISTS.	Ampere Engineering, 21 Parramatta Rd., Concord. 2137	22041	1978	Premise Match	0m	On-site
	SIGNWRITERS.	Ashdock Signs, Rear 21 Parramatta Rd., Concord. 2137	66322	1978	Premise Match	0m	On-site
	SIGNWRITERS.	Ashdock Signwriters, Rear 21, Parramatta Rd., Concord. 2137	66304	1978	Premise Match	0m	On-site
	FURNITURE-HOUSEHOLD RETAIL	Exclusive Custom Furniture, 21 Parramatta Rd., Concord. 2137	31743	1978	Premise Match	0m	On-site
	CAFES, COFFEE LOUNGES, Etc. (C030)	Harry's Hamburger Cafe., 21 Parramatta Rd., Concord	275680	1970	Premise Match	0m	On-site
	CAFES, COFFEE LOUNGES, Etc. (C030)	Lapatas, S., 21 Parramatta Rd., Concord	275774	1970	Premise Match	0m	On-site
	Cafes, Tea Rooms, Coffee Lounges, Etc.	Harry's Hamburger Cafe, 21 Parramatta Rd., Concord	60422	1965	Premise Match	0m	On-site
	Cafes, Tea Rooms, Coffee Lounges, Etc.	Lapatas, S., 21 Parramatta Rd., Concord	60503	1965	Premise Match	0m	On-site
	CAFES, TEA ROOMS, COFFEE LOUNGES, Etc.	Lapatas, S., 21 Parramatta Rd., Concord	282294	1961	Premise Match	0m	On-site
	CAFES, TEA ROOMS, COFFEE LOUNGES, Etc.	Martlkas, A., 21 Parramatta Rd., Concord	282343	1961	Premise Match	0m	On-site
	CAFES, TEA ROOMS, COFFEE LOUNGES, Etc.	Pugh, G. F., 21 Parramatta Rd., Concord	15910	1950	Premise Match	0m	On-site
	GROCERS-RETAIL	Pugh, G. P., 21 Parramatta Rd., Concord	58782	1950	Premise Match	0m	On-site
12	NEWSAGENTS-GENERAL.	McFariane, K & K, 1 Burwood Rd, Concord 2137	54008	1978	Premise Match	0m	On-site
	NEWSAGENTS (N100)	McFarlane, R. & K., 1 Burwood Rd., Concord	343694	1970	Premise Match	0m	On-site
	Newsagents	McFarlane, R. & K., 1 Burwood Rd., Concord	128286	1965	Premise Match	0m	On-site
	NEWSAGENTS	McFarlane, R. & K., 1 Burwood Rd., Concord	353303	1961	Premise Match	0m	On-site
13	MOTOR PANEL BEATERS	Prestige Smash Repairs Pty. Ltd., 1 Parramatta Rd., Concord. 2137	52284	1978	Premise Match	0m	On-site
	MOTOR BODY REPAIRS/CONVERTERS (M496)	Swavely, G. & Co. Pty. Ltd., 1 Parramatta Rd., Concord	335418	1970	Premise Match	0m	On-site
	MOTOR PAINTERS (M672)	Swavley, G. & Co. Pty. Ltd., 1 Parramatta Rd., Concord	339678	1970	Premise Match	0m	On-site
	MOTOR PANEL BEATERS (M680)	Swavley, G. & Co. Pty. Ltd., 1 Parramatta Rd., Concord	340468	1970	Premise Match	0m	On-site
	MOTOR TRIMMERS (M748)	Swavley, G. & Co. Pty. Ltd., 1 Parramatta Rd., Concord	342697	1970	Premise Match	0m	On-site
	MOTOR TOWING SERVICES (M744)	Swavley, G. A Co. Pty. Ltd., 1 Parramatta Rd., Concord	342577	1970	Premise Match	0m	On-site
	Motor Painters	Swavley, G. & Co. Pty. Ltd., 1 Parramatta Rd., Concord	124286	1965	Premise Match	0m	On-site
	Motor Panel Beaters	Swavley, G. & Co. Pty. Ltd., 1 Parramatta Rd., Concord	125056	1965	Premise Match	0m	On-site

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
13	Motor Trimmers	Swavley, G. & Co. Pty. Ltd., 1 Parramatta Rd., Concord	127298	1965	Premise Match	0m	On-site
	Motor Body Repairs/Converters	Swayley, G. & Co. Pty. Ltd., 1 Parramatta Rd., Concord	120239	1965	Premise Match	0m	On-site
	MOTOR PANEL BEATERS	Swaveley, G. & Co. Pty. Ltd., 1 Parramatta Rd., Concord	350006	1961	Premise Match	0m	On-site
	MOTOR BODY REPAIRS/CONVERTERS	Swavley, G. & Co. Pty. Ltd., 1 Parramatta Rd., Concord	344455	1961	Premise Match	0m	On-site
	MOTOR PAINTERS	Swavley, G. & Co. Pty. Ltd., 1 Parramatta Rd., Concord	349217	1961	Premise Match	0m	On-site
	MOTOR TRIMMERS	Swavley, G. & Co. Pty. Ltd., 1 Parramatta Rd., Concord	352379	1961	Premise Match	0m	On-site
	WELDERS-ELECTRIC &/OR OXY	Swavley, G. & Co. Pty. Ltd., 1 Parramatta Rd., Concord	262495	1961	Premise Match	0m	On-site
	MOTOR BODY BUILDERS	Swavley, G. F., 1 Parramatta Rd., Concord	82199	1950	Premise Match	0m	On-site
	MOTOR PAINTERS	Swavley, G., 1 Parramatta Rd., Concord	85058	1950	Premise Match	0m	On-site
	MOTOR PANEL BEATERS	Swavley, G., 1 Parramatta Rd., Concord	85537	1950	Premise Match	0m	On-site
	MOTOR TRIMMERS	Swavley, G., 1 Parramatta Rd., Concord	87127	1950	Premise Match	0m	On-site
	WELDERS-ELECTRIC &/OR OXY	Swavley, G., 1 Parramatta Rd., Concord	113108	1950	Premise Match	0m	On-site
14	HAIRDRESSERS-GENTS.	Dimarzo. J. & Son, 340 Parramatta Rd., Burwood. 2134	40463	1975	Premise Match	0m	On-site
	SPORTS GOODS RETAILERS.	Finegan, Bruce Sportsworld Pty. Ltd., 340 Parramatta Rd., Burwood. 2134	79032	1975	Premise Match	0m	On-site
	SPORTS GOODS W/SALERS.	Finegan, Bruce Sportsworld Pty. Ltd., 340 Parramatta Rd., Burwood. 2134	79165	1975	Premise Match	0m	On-site
	HAIRDRESSERS (GENT.'S) (H070)	Dlmarzo, John., 340 Parramatta Rd., Burwood	313828	1970	Premise Match	0m	On-site
	SPORTS GOODS RETAILERS (S443)	Finegan, B. Sports World, 340 Parramatta Rd., Burwood	363409	1970	Premise Match	0m	On-site
	Hairdressers (Gent.'s)/Tobacconists	Dimarzo, John., 340 Parramatta Rd., Burwood	97954	1965	Premise Match	0m	On-site
	BEAUTY SALONS &/OR LADIES' HAIRDRESSERS	Dimarzos, G., 340 Parramatta Rd., Burwood	7066	1950	Premise Match	0m	On-site
	HAIRDRESSERS (GENT.'S) &/OR TOBACCONISTS	Dimarzos, G., 340 Parramatta Rd., Burwood	59378	1950	Premise Match	0m	On-site
15	RESTAURANTS.	Pilgrins Tavern., 7 Burwood Rd., Concord. 2137	74040	1975	Premise Match	0m	On-site
	HARDWARE DEALERS/IRONMONGERS (H230)	Seven Seas Hardware., 7-9 Burwood Rd., CONCORD	315301	1970	Premise Match	0m	On-site
	PAINT,VARNISH,OILS/COLOUR MERCHANTS (P074)	Seven Seas Hardware., 7-9 Burwood Rd., Concord	346356	1970	Premise Match	0m	On-site
	Builders' Suppliers	Seven Seas Hardware Store., 7 Burwood Rd., Concord	56332	1965	Premise Match	0m	On-site
	Hardware Dealers &/or Ironmongers	Seven Seas Hardware, 7-9 Burwood Rd. Concord	99146	1965	Premise Match	0m	On-site
	Paint, Varnish, Oils/Colour Merchants	Seven Seas Hardware, 7-9 Burwood Rd., Concord	131035	1965	Premise Match	0m	On-site
	PAINT, ENAMEL, VARNISH/STAIN MANUFACTURERS	Bray, J. R., 7-9 Burwood Rd., Concord	355422	1961	Premise Match	0m	On-site
	HARDWARE DEALERS/IRONMONGERS	Seven Seas Hardware, 7-9 Burwood Rd. CONCORD	323176	1961	Premise Match	0m	On-site
	BUILDERS' SUPPLIERS	Seven Seas Hardware, 7-9 Burwood Rd., Concord	278406	1961	Premise Match	0m	On-site
	PAINT, VARNISH, OILS/COLOUR MERCHANTS	Seven Seas Hardware, 7-9 Burwood Rd., Concord	355745	1961	Premise Match	0m	On-site
	BUILDERS' HARDWARE MANUFACTURERS &/OR DISTRIBUTORS	Lock, G. R., 7 Burwood Rd., Concord	11623	1950	Premise Match	0m	On-site
	HARDWARE DEALERS &/OR IRONMONGERS	Lock, G. R., 7 Burwood Rd., Concord	61196	1950	Premise Match	0m	On-site

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16	ELECTRICAL SUPPLIES/APPLIANCES MANUFACTURERS (E320)	Burwood Kitchen Furniture Pty. Ltd., 342 Parramatta Rd., Burwood	296103	1970	Premise Match	0m	On-site
	ELECTRICAL SUPPLIES/APPLIANCES RETAILERS	Burwood Kitchen Furniture Pty. Ltd., 342 Parramatta Rd., Burwood	295585	1970	Premise Match	0m	On-site
	FURNITURE-HOUSEHOLD-RETAILERS	Burwood Kitchen Furniture Pty. Ltd., 342 Parramatta Rd., Burwood	309399	1970	Premise Match	0m	On-site
	ELECTRICAL SUPPLIES/APPLIANCES RETAILERS	Wooleys Electrical Super Market., 342 Parramatta Rd., Burwood	295977	1970	Premise Match	0m	On-site
	Electrical Supplies/Appliances Retailers	Wooleys Electrical Super Market., 342 Parramatta Rd., Burwood	79736	1965	Premise Match	0m	On-site
	BATH & SINK HEATER REPAIRS	Calvert, G., 342 Parramatta Rd., Burwood	271687	1961	Premise Match	0m	On-site
	SHEET METAL WORKERS	Calvert, G., 342 Parramatta Rd., Burwood	249216	1961	Premise Match	0m	On-site
	SHEET METAL WORKERS	Sheehan Bros., 342 Parramatta Rd., Burwood	101818	1950	Premise Match	0m	On-site
17	MOTOR CAR & TRUCK DEALERS-USED	St. Clair, S. J., 11 Burwood Rd., Concord	82559	1950	Premise Match	0m	On-site
18	Real Estate Agents	Hill, John L. & Co., 6 Burwood Rd. Burwood 2134	60254	1991	Premise Match	6m	South West
	Auctioneers Real Estate	Hill, John L. Real Estate Agents, 6 Burwood Rd., Burwood 2134	34712	1991	Premise Match	6m	South West
	HEALTH FOODS-RETAIL.	All's Healthy, 8 Burwood Plaza, Burwood. 2134	45205	1986	Premise Match	6m	South West
	MEDICAL PRACTITIONERS.	Burton, Nerida, 8 Burwood Rd., Burwood. 2134	53925	1986	Premise Match	6m	South West
	MEDICAL PRACTITIONERS.	Doong, Nicholas C., 8 Burwood Rd., Burwood. 2134.	54587	1986	Premise Match	6m	South West
	AUCTIONEERS REAL ESTATE	Hill, John L. & Co., 6 Burwood Rd., Burwood. 2134	4457	1986	Premise Match	6m	South West
	BUSINESS AGENTS &/OR BROKERS.	Hill, John L. & Co., 6 Burwood Rd., Burwood. 2134	9379	1986	Premise Match	6m	South West
	PROPERTY MANAGEMENT.	Hill, John L. & Co., 6 Burwood Rd., Burwood. 2134	77623	1986	Premise Match	6m	South West
	REAL ESTATE AGENTS.	Hill, John L. & Co., 6 Burwood Rd., Burwood. 2134	79566	1986	Premise Match	6m	South West
	BEAUTICIANS.	Hollywood Nail Bar, 6 Burwood Rd., Burwood. 2134	5747	1986	Premise Match	6m	South West
	MEDICAL PRACTITIONERS.	Lahood, J. R., 4 Burwood Rd., Belfield. 2191	55895	1986	Premise Match	6m	South West
	NEWSAGENTS.	Plaza Newsagency, 6 Burwood Plaza, Burwood. 2134	69609	1986	Premise Match	6m	South West
	HEALTH FOODS - RETAIL. (H3000)	Healthy Life, 8 Burwood Plaza, Burwood. 2134.	39709	1982	Premise Match	6m	South West
	NEWSAGENTS. (N0800)	Plaza Newsagency, 6 Burwood Plaza, Burwood. 2134	60758	1982	Premise Match	6m	South West
	HAIRDRESSERS-GENTS.	Malcolm’s Hairdresser Salon, 4 Burwood Rd., Burwood. 2134	40696	1975	Premise Match	6m	South West
	BEAUTY SALONS &/OR LADIES HAIRDRESSERS.	Malcolm's Hairdressing Salon, 4 Burwood Rd., Burwood. 2134	5610	1975	Premise Match	6m	South West
	REAL ESTATE AGENTS &/OR VALUERS.	Sell- Estate Pty., 6 Burwood Rd., Burwood. 2134	72943	1975	Premise Match	6m	South West
	AUCTIONEERS-GENERAL	Sell-Estate Pty., 6 Burwood Rd., Burwood. 2134	3398	1975	Premise Match	6m	South West
	FINANCIERS &/OR FINANCE AGENTS.	Sell-Estate Pty., 6 Burwood Rd., Burwood. 2134.	32062	1975	Premise Match	6m	South West
	BEAUTY SALONS &/OR LADIES' HAIRDRESSERS (B260)	Barry's Hairdressing Salon., 4 Burwood Rd., Burwood	265558	1970	Premise Match	6m	South West
	HAIRDRESSERS (GENT.'S) (H070)	Barry's Hairdressing Salon., 4 Burwood Rd., Burwood	313617	1970	Premise Match	6m	South West
	MIXED BUSINESSES (M408)	Sayors, S. O., 6 Burwood Rd., Burwood	333780	1970	Premise Match	6m	South West

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18	Mixed Businesses	Sayors, S. O., 6 Burwood Rd., Burwood	118581	1965	Premise Match	6m	South West
	ANIMAL & BIRD FOOD SUPPLIES	Puppy Palace (Requisites), 6a Burwood Rd., Burwood	267887	1961	Premise Match	6m	South West
	MIXED BUSINESS	Sayors, S. O., 6 Burwood Rd., Burwood	342329	1961	Premise Match	6m	South West
	HAIRDRESSERS (GENT.'S) &/OR TOBACCONISTS	Kennedy, J., 4 Burwood Rd., Burwood	59650	1950	Premise Match	6m	South West
	MIXED BUSINESSES & GENERAL STORES	McDonald and Co., 6 Burwood Rd., Burwood	80501	1950	Premise Match	6m	South West
	HAIRDRESSERS (GENT.'S) &/OR TOBACCONISTS	Stanley, C. H., 4 Burwood Rd., Burwood	60027	1950	Premise Match	6m	South West
19	Hairdressers (Gent.'s)/Tobacconists	Burwood Hairdresser., 4 Burwood Rd., Burwood	97825	1965	Premise Match	7m	South West
	HAIRDRESSERS (GENT.'S) /TOBACCONISTS	Kennedy, J., 4 Burwood Rd., Burwood	322203	1961	Premise Match	7m	South West
20	BILLIARD TABLES & ACCESSORIES MFRS. DISTS. &/OR REPAIRERS.	Casa Pool & Billiard Tables Cnr Parramatta & Burwood Rds., Burwood, 2134	6256	1975	Road Intersection	15m	West
	REAL ESTATE AGENTS/VALUERS	Breckenridge, H., Cnr. Burwood & Parramatta Rds. CONCORD	365577	1961	Road Intersection	15m	West
	BANKS	English Scottish & Australian Bank Ltd., Cnr. Parramatta & Burwood Rds., Concord	271318	1961	Road Intersection	15m	West
21	HOTELS-LICENSED.	Bath Arms Hotel, The, 348 Parramatta Rd., Burwood. 2134	46543	1986	Premise Match	19m	South West
	HOTELS - LICENSED. (H7150)	Bath Arms Hotel, The, 348 Parramatta Rd., Burwood. 2134.	40585	1982	Premise Match	19m	South West
	HOTELS-LICENSED.	Bath Arms Hotel, The, 348 Parramatta Rd., Burwood. 2134	35989	1978	Premise Match	19m	South West
	HOTELS-LICENCED	Bath Arms Hotel The., 348 Parramatta Rd., Burwood. 2134	42712	1975	Premise Match	19m	South West
	HOTELS-LICENSED (H690)	Bath Arms Hotel (The)., 348 Parramatta Rd., Burwood	317094	1970	Premise Match	19m	South West
	Hotels - Licensed	Bath Arms Hotel (The), 348 Parramatta Rd., Burwood	101411	1965	Premise Match	19m	South West
	HOTELS—LICENSED	Bath Arms Hotel (The), 348 Parramatta Rd., Burwood	325168	1961	Premise Match	19m	South West
	HOTELS-LICENSED	Bath Arms Hotel, Parramatta Rd., Burwood	62903	1950	Premise Match	19m	South West
22	BUTCHERS-RETAIL.	Bernie & Mort, 16 Burwood Rd., Concord, 2137	9598	1986	Premise Match	19m	West
	BUTCHERS - RETAIL. (B8040)	Selby. C. & M., 16 Burwood Rd., Concord. 2137.	11549	1982	Premise Match	19m	West
	BUTCHERS-RETAIL.	Selby. C. & M., 16 Burwood Rd., Concord. 2137	9858	1978	Premise Match	19m	West
	BUTCHERS-RETAIL	Selby's, 16 Burwood Rd., Concord. 2137	11131	1975	Premise Match	19m	West
	BUTCHERS-RETAIL (B860)	Keegan, T.J., 16 Burwood Rd., Concord	273864	1970	Premise Match	19m	West
	Butchers - Retail	Keegan, T. J., 16 Burwood Rd., Concord	58615	1965	Premise Match	19m	West
	BUTCHERS-RETAIL	Anchau, Brian, 16 Burwood Rd., Concord	279816	1961	Premise Match	19m	West
	BUTCHERS-RETAIL	Keegan, T. J., 16 Burwood Rd., Concord	280575	1961	Premise Match	19m	West
	BUTCHERS-RETAIL	Keegan, T. J., 16 Burwood Rd., Concord	13789	1950	Premise Match	19m	West
	BUTCHERS-RETAIL	Lewis, R. S. M., 16 Bur wood Rd., Concord East	13855	1950	Premise Match	19m	West
23	TAKE-AWAY FOODS.	Burwood Bite, 10 Burwood Rd., Concord. 2137.	90562	1986	Premise Match	19m	West
	MIXED BUSINESSES. (M4060)	Allfoods, 10 Burwood Rd., Concord. 2137.	52868	1982	Premise Match	19m	West
	DELICATESSENS	Crisafis, S., 10 Burwood Rd., Concord. 2137	20064	1975	Premise Match	19m	West

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23	GROCERS-RETAIL	Crisafis, S., 10 Burwood Rd., Concord. 2137	39280	1975	Premise Match	19m	West
	GROCERS-RETAIL (G655)	Hogarth, H. R. & C. E., 10 Burwood Rd., Concord	312567	1970	Premise Match	19m	West
	GROCERS-RETAIL (G655)	Nicholas, W. E. & M. J., 10 Burwood Rd., Concord	312818	1970	Premise Match	19m	West
	Grocers - Retail	Nicholas, W. E. & M. J., 10 Burwood Rd., Concord	96919	1965	Premise Match	19m	West
	GROCERS-RETAIL	Linden, W. G. & C. M., 10 Burwood Rd., Concord	320797	1961	Premise Match	19m	West
	GROCERS-RETAIL	Stevens, H., 10 Burwood Rd., Concord	55775	1950	Premise Match	19m	West
	HARDWARE DEALERS &/OR IRONMONGERS	Stevens, H., 10 Burwood Rd., Concord	61412	1950	Premise Match	19m	West
24	NEWSAGENTS.	Clarson, J., 12 Burwood Rd., Concord. 2137	69251	1986	Premise Match	19m	West
	NEWSAGENTS. (N0800)	Clarson. J., 12 Burwood Rd., Concord. 2137.	60450	1982	Premise Match	19m	West
	NEWSAGENTS-GENERAL	East Concord Newsagent., 12 Burwood Rd., Concord. 2137	63526	1975	Premise Match	19m	West
	DRAPERS-RETAIL (D540)	Allan & Thompson., 12 Burwood Rd., Concord	290254	1970	Premise Match	19m	West
	CHEMISTS-PHARMACEUTICAL	East Concord Pharmacy., 12 Burwood Rd., Concord	280320	1970	Premise Match	19m	West
	Drapers - Retail	Allan & Thompson, 12 Burwood Rd., Concord	74907	1965	Premise Match	19m	West
	Chemists - Pharmaceutical	East Concord Pharmacy, 12 Burwood Rd., Concord	64958	1965	Premise Match	19m	West
	BABY & CHILDREN'S WEAR-RETAIL	Allan & Thompson, 12 Burwood Rd., Concord	270365	1961	Premise Match	19m	West
	DRAPERS-RETAIL	Allan & Thompson, 12 Burwood Rd., Concord	297731	1961	Premise Match	19m	West
	BEAUTY SALONS &/OR LADIES' HAIRDRESSERS	Green, Sally, 12 Burwood Rd., Concord East	7216	1950	Premise Match	19m	West
	BEAUTY SALONS &/OR LADIES' HAIRDRESSERS	Sally Green, 12 Burwood Rd., Concord East	7765	1950	Premise Match	19m	West
25	RESTAURANTS.	Keilock, 6 Burwood Rd., Concord. 2137	81965	1986	Premise Match	19m	West
	TAKE-AWAY FOODS.	Kellock, 6 Burwood Rd., Concord. 2137.	91082	1986	Premise Match	19m	West
	RESTAURANTS. (R5180)	Kelock, 6 Burwood Rd., Concord. 2137.	71099	1982	Premise Match	19m	West
	TAKE-AWAY FOODS. (T0235)	Kelock, 6 Burwood Rd., Concord. 2137.	78503	1982	Premise Match	19m	West
	TOY DEALERS., RETAIL	Concord East P.O. Store, 6 Burwood Rd., Concord. 2137	84223	1975	Premise Match	19m	West
	STATIONERS-RETAIL	Concord East P.O. Store., 6 Burwood Rd., Concord 2137	79912	1975	Premise Match	19m	West
	STATIONERS-RETAIL (S516)	Jones, G. S. & R. C., 6 Burwood Rd., Concord	364616	1970	Premise Match	19m	West
	TOY DEALERS-RETAIL	Jones, G.S.& R.C., 6 Burwood Rd., Concord	370114	1970	Premise Match	19m	West
	TOY DEALERS-RETAIL	Staines, N.A.& J.M., 6 Burwood Rd. Concord	370250	1970	Premise Match	19m	West
	STATIONERS—RETAIL	Graham, B. & J., 6 Burwood Rd., Concord	147491	1965	Premise Match	19m	West
	TOY DEALERS--- RETAIL	Staines, N. A. & J. M., 6 Burwood Rd., Concord	153094	1965	Premise Match	19m	West
	STATIONERS-RETAIL	Staines, N. A. & J. M., 6 Burwood Rd., Concord	253080	1961	Premise Match	19m	West
26	CHEMISTS-PHARMACEUTICAL.	Maynards Pharmacy, 4 Burwood Rd., Concord. 2137	14561	1986	Premise Match	19m	West
	CHEMISTS - PHARMACEUTICAL.(C4110)	Maynards Pharmacy, 4 Burwood Rd., Concord. 2137.	15372	1982	Premise Match	19m	West
	CHEMISTS-PHARMACEUTICAL.	Maynards Pharmacy, 4 Burwood Rd., Concord. 2137	13508	1978	Premise Match	19m	West

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26	CHEMISTS-PHARMACEUTICAL	Maynard's Pharmacy, 4 Burwood Rd., Concord. 2137	15594	1975	Premise Match	19m	West
	CHEMISTS-PHARMACEUTICAL	Maynard's Pharmacy., 4 Burwood Rd., Concord	280750	1970	Premise Match	19m	West
	Chemists - Pharmaceutical	Maynard's Pharmacy, 4 Burwood Rd., Concord	65332	1965	Premise Match	19m	West
	CHEMISTS-PHARMACEUTICAL	Maynard's Pharmacy, 4 Burwood Rd., Concord	287835	1961	Premise Match	19m	West
27	MIXED BUSINESSES.	Mini-Market, 18 Burwood Rd., Concord. 2137	60217	1986	Premise Match	19m	West
	MISSIONS &/OR RELIGIOUS BODIES. (M4040)	Mini-Market. 18 Burwood Rd., Concord. 2137.	52845	1982	Premise Match	19m	West
	GROCERS-RETAIL	Mini Market., 18 Burwood Rd Concord 2137	39672	1975	Premise Match	19m	West
	DELICATESSENS (D080)	Cortesse, S., 18 Burwood Rd., Concord	287294	1970	Premise Match	19m	West
	DELICATESSENS	Theol, S., 18 Burwood Rd., Concord	72794	1965	Premise Match	19m	West
	DELICATESSENS	Theol, S., 18 Burwood Rd., Concord	295338	1961	Premise Match	19m	West
	DELICATESSENS & SMALLGOODS DEALERS	Robertson, F. E., 18 Burwood Rd., Concord	31103	1950	Premise Match	19m	West
28	FRUITERERS &/OR GREENGROCERS. (F6775)	Pafumi, G., 8 Burwood Rd., Concord. 2137.	33799	1982	Premise Match	19m	West
	FRUITERERS &/OR GREENGROCERS.	Pafumi, G., 8 Burwood Rd., Concord. 2137	30699	1978	Premise Match	19m	West
	FRUITERERS &/OR GREENGROCERS.	Puglia, D., 8 Burwood Rd., Concord. 2137.	35713	1975	Premise Match	19m	West
	FRUITERERS/GREENGROCERS (F640)	Puglia, D., 8 Burwood Rd., Concord	307778	1970	Premise Match	19m	West
	Fruiterers & Greengrocers	Puglia, D., 8 Burwood Rd., Concord	91965	1965	Premise Match	19m	West
	FRUITERERS/GREENGROCERS	Puglia, D., 8 Burwood Rd., Concord	316027	1961	Premise Match	19m	West
	FRUITERERS & GREENGROCERS	Gaudry, G., 8 Burwood Rd., Concord	50151	1950	Premise Match	19m	West
29	WALLPAPER MERCHANTS.	Paintorama, 14 Burwood Rd., Concord. 2137	86424	1975	Premise Match	19m	West
	PAINTERS SUPPLIES &/OR REQUISITES.	Paintorama., 14 Burwood Rd., Concord. 2137	65795	1975	Premise Match	19m	West
	PAINT VARNISH OILS &/OR COLOUR MERCHANTS.	Paintorama., 14 Burwood Rd., Concord2137	65592	1975	Premise Match	19m	West
	CAKE SHOPS & PASTRYCOOKS (C045)	Rudolf, C.F & K.H., 14 Burwood Rd., Concord	276855	1970	Premise Match	19m	West
	PAINTERS' SUPPLIES/REQUISITES(P100)	S. & B. Supply Pty. Ltd., 14 Burwood Rd., Concord	346573	1970	Premise Match	19m	West
	PAINT,VARNISH,OILS/COLOUR MERCHANTS (P074)	S. &. B Supply Pty. Ltd., 14 Burwood Rd., Concord	346349	1970	Premise Match	19m	West
	Cake Shops & Pastrycooks	Rudolf, C. F. & K. H., 14 Burwood Rd., Concord	61570	1965	Premise Match	19m	West
	Painter' Supplies/Requisites	S. & B. Supply Pty. Ltd., 14 Burwood Rd., Concord	131414	1965	Premise Match	19m	West
	PAINT, VARNISH, OILS/COLOUR MERCHANTS	Burwood Home Paint & Color Service, 14 Burwood Rd., Concord	355604	1961	Premise Match	19m	West
	CAKE SHOPS & PASTRYCOOKS	Rudolf, C. F. & K. H., 14 Burwood Rd., Concord	283303	1961	Premise Match	19m	West
	PAINT, VARNISH, OILS/COLOUR MERCHANTS	S. & B. Supply Pty. Ltd., 14 Burwood Rd., Concord	355738	1961	Premise Match	19m	West
	PAINTERS' SUPPLIES/REQUISITES	S. & B. Supply Pty. Ltd., 14 Burwood Rd., Concord	356573	1961	Premise Match	19m	West
	CAKE SHOPS & PASTRYCOOKS	McCarthy, G. T., 14 Burwood Rd., Concord	16951	1950	Premise Match	19m	West
30	ACCOUNTANTS & AUDITORS	Beckenbridge, H, 2 Burwood Rd. Concord	43432	1965	Premise Match	19m	West
	Auctioneers - Real Estate	Beckenbridge, H., 2a Burwood Rd., Concord	48478	1965	Premise Match	19m	West

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30	TAXATION CONSULTANTS/SPECIALISTS	Beckenbridge, H., 2a Burwood Rd., Concord	150112	1965	Premise Match	19m	West
	Real Estate Agents/Valuers	Edwards, R. J. & Co., 2a Burwood Rd. Concord	139103	1965	Premise Match	19m	West
	Auctioneers - Real Estate	Edwards, R. J. & Co., 2a Burwood Rd., Concord	48503	1965	Premise Match	19m	West
	ACCOUNTANTS & AUDITORS	Beckenbridge, H., 2 Burwood Rd., Concord	264661	1961	Premise Match	19m	West
	REAL ESTATE AGENTS/VALUERS	Edwards, R., 2a Burwood Rd. CONCORD	365579	1961	Premise Match	19m	West
	AUCTIONEERS-REAL ESTATE	Edwards, R. J., 2a Burwood Rd., Concord	4217	1950	Premise Match	19m	West
	REAL ESTATE AGENTS	Edwards, R. J., 2a Burwood Rd., Concord	98202	1950	Premise Match	19m	West
	CHEMISTS-PHARMACEUTICAL	Maynard, E. R., 2 Burwood Rd., Concord	21790	1950	Premise Match	19m	West
31	VETERINARY SURGEONS (V150)	Krokstedt, V.F.L., 15 Burwood Rd., Concord	372736	1970	Premise Match	20m	North
	Veterinary Surgeons	Krokstedt, V. F. L.,. 15 Burwood Rd., Concord	155515	1965	Premise Match	20m	North
	VETERINARY SURGEONS	Krokstedt, V. F. L., 15 Burwood Rd., Concord	261096	1961	Premise Match	20m	North
32	Motor Garages & Service Stations	Burwood Auto Repairs Pty. Ltd., 316 Parramatta Rd., Burwood 2134	97612	1991	Premise Match	24m	South East
	MANUFACTURERS AGENTS.	Burwood Auto Repairs Pty. Ltd., 316 Parramatta Rd., Burwood. 2134	52510	1986	Premise Match	24m	South East
	MOTOR BODY REPAIRS &/OR CONVERTERS.	Burwood Auto Repairs Pty. Ltd., 316 Parramatta Rd., Burwood. 2134	61367	1986	Premise Match	24m	South East
	MOTOR GARAGES & SERVICE STATIONS.	Burwood Auto Repairs Pty. Ltd., 316 Parramatta Rd., Burwood. 2134	64285	1986	Premise Match	24m	South East
	MOTOR PANEL BEATERS &/OR SPRAY PAINTERS.	Burwood Auto Repairs Pty. Ltd., 316 Parramatta Rd., Burwood. 2134	66140	1986	Premise Match	24m	South East
	MOTOR TOWING SERVICES.	Burwood Auto Repairs Pty. Ltd., 316 Parramatta Rd., Burwood. 2134	67898	1986	Premise Match	24m	South East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. (M6860)	Burwood Auto Repairs Pty, Ltd., 316 Parramatta Rd., Burwood. 2134.	56368	1982	Premise Match	24m	South East
	MOTOR BODY REPAIRS &/OR CONVERTERS. (M5140)	Burwood Auto Repairs Pty. Ltd., 316 Parramatta Rd., Burwood. 2134.	54260	1982	Premise Match	24m	South East
	MOTOR PANEL BEATERS &/OR SPRAY PAINTERS. (M7360)	Burwood Auto Repairs Pty. Ltd., 316 Parramatta Rd., Burwood. 2134.	58149	1982	Premise Match	24m	South East
	MOTOR TOWING SERVICES. (M8220)	Burwood Auto Repairs Pty. Ltd., 316 Parramatta Rd., Burwood. 2134.	59605	1982	Premise Match	24m	South East
	BLIND MFRS. &/OR DISTS. - CANVAS - HOLLAND - VENETIAN.	Arrest-A-Lite 316 Parramatta Rd., Burwood. 2134	5962	1978	Premise Match	24m	South East
	FURNITURE-GENERAL-MFRS. &/OR WHOLESALERS (F730)	G.M.Woodcraft Pty. Ltd., 316 Parramatta Rd., Burwood	309228	1970	Premise Match	24m	South East
	SHIP CHANDLERS (S252)	Williams, Fred Water Skis Pty. Ltd., 316 Parramatta Rd., Burwood.	360930	1970	Premise Match	24m	South East
	SKI MFRS.-SNOW &/OR WATER(S343)	Williams, Fred Waterskis Pty. Ltd., 316 Parramatta Rd., Burwood	361775	1970	Premise Match	24m	South East
	JOINERY MANUFACTURERS (J240)	Woodcraft, G. M., 316 Parramatta Rd., Burwood	321935	1970	Premise Match	24m	South East
	Furniture - General - Mfrs. &/or Wholesalers	G.M. Woodcraft Pty. Ltd., 316 Parramatta Rd., Burwood	93268	1965	Premise Match	24m	South East
	Joinery Manufacturers	Woodcraft, G. M., 316 Parramatta Rd., Burwood	106627	1965	Premise Match	24m	South East
	CATERERS	Bellhaven Catering Co, 316 Parramatta Rd, Burwood	285953	1961	Premise Match	24m	South East
	PLUMBERS, GASFITTERS/DRAINLAYERS	Concord Building & Repair Services Pty. Ltd., 316 Parramatta Rd. Burwood	360349	1961	Premise Match	24m	South East
	CABINETMAKERS	Concord Building & Repair Services Pty. Ltd., 316 Parramatta Rd., Burwood	281726	1961	Premise Match	24m	South East

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32	HOUSE MAINTENANCE SPECS.	Concord Building & Repair Services Pty. Ltd., 316 Parramatta Rd., Burwood	325964	1961	Premise Match	24m	South East
	JOINERY MANUFACTURERS	Concord Building & Repair Services Pty. Ltd., 316 Parramatta Rd., Burwood	329804	1961	Premise Match	24m	South East
	CATERERS	Bellhaven Catering Co., 316 Parramatta Rd., Burwood	20563	1950	Premise Match	24m	South East
33	MOTOR CAR &/OR TRUCK DEALERS-NEW &/OR USED.	Cord Car Co. Pty. Ltd., 320 Parramatta Rd., Burwood. 2134	62023	1986	Premise Match	25m	South East
	MOTOR CAR &/OR TRUCK DEALERS - NEW &/OR USED. (M5840)	Cord Car Co. Pty. Ltd., 320 Parramatta Rd., Burwood. 2134.	54750	1982	Premise Match	25m	South East
	CARAVAN DEALERS &/OR HIRERS.	Jackson. Greg Caravan Centre. 320 Parramatta Rd., Burwood. 2134.	11216	1978	Premise Match	25m	South East
	CARAVAN DEALERS &/OR HIRERS.	Burwood Caravan Centre, 320 Parramatta Rd., Burwood 2134	13089	1975	Premise Match	25m	South East
	NURSERYMEN	Dyer's Nursery., 320 Parramatta Rd., Burwood	89076	1950	Premise Match	25m	South East
34	MOTOR ACCESSORIES DEALERS.(M4690)	Kenneth Godfrey Wiggins, 318 Parramatta Rd., Burwood. 2134.	53843	1982	Premise Match	25m	South East
	MOTOR TOWING SERVICES	Burwood Auto Repairs Pty Ltd, 318 Parramatta Rd, Burwood 2134	53126	1978	Premise Match	25m	South East
	MOTOR BODY REPAIRS &/OR CONVERTERS.	Burwood Auto Repairs Pty. Ltd., 318 Parramatta Rd., Burwood. 2134	47806	1978	Premise Match	25m	South East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Burwood Auto Repairs Pty. Ltd., 318 Parramatta Rd., Burwood. 2134	49481	1978	Premise Match	25m	South East
	MOTOR PAINTERS.	Burwood Auto Repairs Pty. Ltd., 318 Parramatta Rd., Burwood. 2134	51324	1978	Premise Match	25m	South East
	MOTOR PANEL BEATERS	Burwood Auto Repairs Pty. Ltd., 318 Parramatta Rd., Burwood. 2134	51898	1978	Premise Match	25m	South East
	MOTOR BODY REPAIRS &/OR CONVERTERS.	Burwood Auto Repairs Pty. Ltd., 318 Parramatta Rd., Burwood. 2134	56624	1975	Premise Match	25m	South East
	MOTOR GARAGES &/OR ENGINEERS.	Burwood Auto Repairs Pty. Ltd., 318 Parramatta Rd., Burwood. 2134	58506	1975	Premise Match	25m	South East
	MOTOR PAINTERS.	Burwood Auto Repairs Pty. Ltd., 318 Parramatta Rd., Burwood. 2134	60010	1975	Premise Match	25m	South East
	MOTOR PANEL BEATERS.	Burwood Auto Repairs Pty. Ltd., 318 Parramatta Rd., Burwood. 2134	60653	1975	Premise Match	25m	South East
	MOTOR TOWING SERVICES.	Burwood Auto Repairs Pty. Ltd., 318 Parramatta Rd., Burwood. 2134	62668	1975	Premise Match	25m	South East
	MOTOR PAINTERS (M672)	Burwood Auto Repairs., 318 Parramatta Rd., Burwood	339166	1970	Premise Match	25m	South East
	MOTOR PANEL BEATERS (M680)	Burwood Auto Repairs., 318 Parramatta Rd., Burwood	339901	1970	Premise Match	25m	South East
	SKI MFRS.-SNOW &/OR WATER(S343)	Ski-Ace Water Skis, 318 Parramatta Rd., Burwood	361771	1970	Premise Match	25m	South East
	SPORTS GOODS MFRS. (S440)	Ski-Ace Water Skis, 318 Parramatta Rd., Burwood	363346	1970	Premise Match	25m	South East
	SPORTS GOODS RETAILERS (S443)	Ski-Ace Water Skis, 318 Parramatta Rd., Burwood	363531	1970	Premise Match	25m	South East
	INSURANCE-MARINE-SPEC. (I570)	Williams, F. Water Skis Pty. Ltd., 318 Parramatta Rd., Burwood	320477	1970	Premise Match	25m	South East
	OUTBOARD MOTOR MFRS./DISTS. (O 330)	Williams, F. Water Skis Pty. Ltd., 318 Parramatta Rd., Burwood	345611	1970	Premise Match	25m	South East
	BOAT, LAUNCH & YACHT ACCESSORIES MFRS&/OR DISTS.(B444)	Williams, F., Water Skis Pty. Ltd., 318 Parramatta Rd., Burwood	267463	1970	Premise Match	25m	South East
	BOAT, LAUNCH & YACHT BUILDERS &/OR REPAIRERS	Williams, F.Water Skis Pty. Ltd., 318 Parramatta Rd., Burwood	267629	1970	Premise Match	25m	South East
	SPORTS GOODS MFRS. (S440)	Williams, Fred Water Skis Pty. Ltd., 318 Parramatta Rd., Burwood	363363	1970	Premise Match	25m	South East
	SPORTS GOODS REPAIRERS (S442)	Williams, Fred Water Skis Pty. Ltd., 318 Parramatta Rd., Burwood	363574	1970	Premise Match	25m	South East
	BOAT, LAUNCH & YACHT SALES & SERVICE (B457)	Williams, FWater.Skis Pty. Ltd., 318 Parramatta Rd., Burwood	267728	1970	Premise Match	25m	South East

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34	SPORTS GOODS RETAILERS	Ski-Ace Water Skis, 318 Parramatta Rd., Burwood	146558	1965	Premise Match	25m	South East
	SPORTS GOODS MFRS.	Ski-Ace Water Skis., 318 Parramatta Rd., Burwood	146378	1965	Premise Match	25m	South East
	SKI MFRS. SNOW, WATER	Ski-Ace Wayer Skis, 318 Parramatta Rd., Burwood	145028	1965	Premise Match	25m	South East
	FURNITURE-GENERAL-MFRS. &/OR WHOLESALERS	Caprice Furnishers Pty. Ltd., 318 Parramatta Rd., Burwood	317452	1961	Premise Match	25m	South East
	FURNITURE-LOUNGE SUITES-MFRS. &/OR W'SALERS	Caprice Furnishers Pty. Ltd., 318 Parramatta Rd., Burwood	318004	1961	Premise Match	25m	South East
	FURNITURE-HOUSEHOLD-RETAILERS	Caprice Furnishers Pty. Ltd., 318 Parramatta Rd., Burwood.	317720	1961	Premise Match	25m	South East
35	MOTOR CAR &/OR TRUCK DEALERS - NEW &/OR USED. (M5840)	Rhodin, John & Son Pty. Ltd., 326 Parramatta Rd., Burwood. 2134.	54997	1982	Premise Match	25m	South East
	MOTOR BRAKE LINING MFRS. &/OR DISTS. &/OR SUPPLIERS.	Bennett Honda Pty. Ltd, (Div. Of INC Ind. Ltd), 330 Parramatta Rd., Burwood 2134	47886	1978	Premise Match	25m	South East
	MOTOR ACCESSORIES DEALERS.	Bennett Honda Pty. Ltd., (Div. Of LNC Ind Ltd), 330 Parramatta Rd., Burwood. 2134	47298	1978	Premise Match	25m	South East
	MOTOR CAR &/OR TRUCK DEALERS-NEW &/OR USED.	Bennett Honda Pty. Ltd., (Div. Of LNC Ind. Ltd), 330 Parramatta Rd., Burwood. 2134	48171	1978	Premise Match	25m	South East
	MOTOR CAR/TRUCK DEALERS-NEW/USED (M520)	Muirs Motors (Burwood)., 330 Parramatta Rd., Burwood	336158	1970	Premise Match	25m	South East
	MOTOR PAINTERS	Auto Exchange, 330 Parramatta Rd., Burwood	84691	1950	Premise Match	25m	South East
	MOTOR PANEL BEATERS	Auto Exchange, 330 Parramatta Rd., Burwood	85148	1950	Premise Match	25m	South East
	BAG & SACK MERCHANTS	Peters, T. L., 326 Parramatta Rd., Burwood	5023	1950	Premise Match	25m	South East
	BAG & SACK MANUFACTURERS	Peters, T. L., 326-328 Parramatta Rd., Burwood	4980	1950	Premise Match	25m	South East
36	MOTOR CAR &/OR TRUCK DEALERS- NEW &/OR USED.	Bennett Honda Pty, Ltd., 332 Parramatta Rd., Burwood. 2134	57036	1975	Premise Match	25m	South
37	SHEET METAL WORKERS	P, and M. Sheet Metal Works, 334 Parramatta Rd., Burwood	101790	1950	Premise Match	25m	South
	METAL WORKERS-GENERAL	P. and M. General Sheet Metal Works, 334 Parramatta Rd., Burwood	76154	1950	Premise Match	25m	South
38	MOTOR SPARE PARTS DEALERS RETAIL.	Burwood Spare Parts, 302 Parramatta Rd., Burwood. 2134	67247	1986	Premise Match	28m	South East
	MOTOR WRECKERS.	Burwood Spare Parts, 302 Parramatta Rd., Burwood. 2134	68719	1986	Premise Match	28m	South East
	MOTOR SPARE PARTS DEALERS -RETAIL. (M7840)	Burwood Spare Parts, 302 Parramatta Rd., Burwood. 2134.	59079	1982	Premise Match	28m	South East
	MOTOR WRECKERS. (M8600)	Burwood Spare Parts, 302 Parramatta Rd., Burwood. 2134.	60008	1982	Premise Match	28m	South East
	MOTOR WRECKERS.	Burwood Spare Parts, 302 Parramatta Rd, Burwood 2134	53382	1978	Premise Match	28m	South East
	MOTOR SPARE PARTS DEALERS-RETAIL.	Burwood Spare Parts, 302 Parramatta Rd., Burwood. 2134	52663	1978	Premise Match	28m	South East
	MOTOR SPARE PARTS DEALERS- RETAIL	Burwood Spare Parts, 302 Parramatta Rd., Burwood. 2134	62153	1975	Premise Match	28m	South East
	MOTOR WRECKERS.	Burwood Spare Parts., 302 Parramatta Rd., Burwood. 2134	62932	1975	Premise Match	28m	South East
	MOTOR SPARE PARTS DEALERS-RETAIL (M728)	Burwood Spare Parts., 302 Parramatta Rd., Burwood	341759	1970	Premise Match	28m	South East
	MOTOR WRECKERS (M760)	Burwood Spare Parts., 302 Parramatta Rd., Burwood	342806	1970	Premise Match	28m	South East
	Motor Spare Parts Dealers - Retail	Burwood Spare Parts, 302 Parramatta Rd., Burwood	126371	1965	Premise Match	28m	South East
	Motor Wreckers	Burwood Spare Parts, 302 Parramatta Rd., Burwood	127405	1965	Premise Match	28m	South East
	MOTOR SPARE PARTS DEALERS—RETAIL	Burwood Spare Parts, 302 Parramatta Rd., Burwood	351427	1961	Premise Match	28m	South East

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38	MOTOR WRECKERS	Burwood Spare Parts, 302 Parramatta Rd., Burwood	352487	1961	Premise Match	28m	South East
	MOTOR SPARE PARTS DEALERS-RETAIL	Burwood Spare Parts, 302 Parramatta Rd., Burwood	86611	1950	Premise Match	28m	South East
	MOTOR WRECKERS	Burwood Spare Parts, 302 Parramatta Rd., Burwood	87171	1950	Premise Match	28m	South East
	MOTOR ACCESSORIES-WHOLESALE	Burwood Spare Parts, 302 Rarramatta Rd., Burwood	81913	1950	Premise Match	28m	South East
39	HOTELS-LICENSED.	Royal Sheaf Hotel, 1 Burwood Rd., Burwood. 2134	47005	1986	Premise Match	29m	South West
40	Motor Garages & Service Stations	BP Concord Service Station, 20 Burwood Rd, Concord 2137	97646	1991	Premise Match	30m	North West
	MOTOR GARAGES & SERVICE STATIONS.	BP Concord, 20 Burwood Rd., Concord. 2137	64126	1986	Premise Match	30m	North West
	MOTOR SERVICE STATIONS-PETROL,OIL,Etc.	Amoco Service Station., Cnr. Burwood Rd. & Burton St., CONCORD	340756	1970	Premise Match	30m	North West
	Motor Service Stations - Petrol, Oil, Etc.	Amoco Service Station, Cnr. Burwood Rd. & Burton St. Concord	125597	1965	Premise Match	30m	North West
	LOCAL BODIES	Concord Municipal Council, 20 Burwood Rd., Concord	332115	1961	Premise Match	30m	North West
	LOCAL BODIES	Concord Municipal Council, (W. J. Mendel, Town Clerk), Cnr. Burwood Rd. And Burton St., Concord	69672	1950	Premise Match	30m	North West
	LOCAL BODIES	Concord Municipal Council, Cnr. Burwood Rd. & Burton St., Concord	69673	1950	Premise Match	30m	North West
	VETERINARY SURGEONS & HOSPITALS	Krokstedt, F. L., Cnr. Burwood Rd. and Burton St., Concord	111967	1950	Premise Match	30m	North West
41	ACCOUNTANTS & AUDITORS.	I.T.P. Executive House, 10 Burwood Rd., Burwood. 2134	606	1986	Premise Match	40m	South West
	TAXATION CONSULTANTS.	I.T.P. Executive House, 10 Burwood Rd., Burwood. 2134	92268	1986	Premise Match	40m	South West
	MOTOR BRAKE SERVICES.	Roevers Clutch Service Pty. Ltd., 10 Burwood Rd., Enfield. 2136	47978	1978	Premise Match	40m	South West
	MOTOR BRAKE SERVICES.	Roevers Clutch Service Pty. Ltd., 10 Burwood Rd., Enfield. 2136	47979	1978	Premise Match	40m	South West
	MOTOR SPARE PARTS MFRS.&/OR W/SALERS.	Roever's Clutch Services Pty Ltd 10 Burwood Road, Enfield 2136	52868	1978	Premise Match	40m	South West
	MOTOR SPARE PARTS DEALERS-RETAIL.	Roevers Clutch Services Pty Ltd, 10 Burwood Rd, Enfield 2136	52810	1978	Premise Match	40m	South West
	MOTOR SPARE PARTS MFRS.&/OR W/SALERS.	Roevers Clutch Services Pty Ltd, 10 Burwood Rd, Enfield 2136	52958	1978	Premise Match	40m	South West
	BEARINGS &/OR BUSH MFRS. &/OR DISTS.	Roevers Clutch Services Pty. Ltd, 10 Burwood Rd, Enfield. 2136	4652	1978	Premise Match	40m	South West
	MOTOR CLUTCH MFRS.	Roevers Clutch Services Pty. Ltd, 10 Burwood Rd, Enfield. 2136	48712	1978	Premise Match	40m	South West
	MOTOR CLUTCH SPECIALISTS.	Roevers Clutch Services Pty. Ltd, 10 Burwood Rd, Enfield. 2136	48725	1978	Premise Match	40m	South West
	AUTOMOTIVE COMPONENTS MFRS. &/OR DISTS.	Roevers Clutch Services Pty. Ltd, 10 Burwood Rd., Enfield. 2136	3921	1978	Premise Match	40m	South West
	MOTOR BRAKE, SPARE PARTS MFRS. & /OR W/SALERS.	Roevers Clutch Services Pty. Ltd, 10 Burwood Rd., Enfield. 2136	48015	1978	Premise Match	40m	South West
	MOTOR CLUTCH MFRS.	Roevers Clutch Services Pty. Ltd. 10 Burwood Road. Enfield. 2136	48698	1978	Premise Match	40m	South West
	MOTOR ACCESSORY MFRS. &/OR WHOLESALERS.	Roevers Clutch Services Pty. Ltd., 10 Burwood Rd., Enfield. 2136	47655	1978	Premise Match	40m	South West
	MOTOR BRAKE LINING MFRS. &/OR DISTS. &/OR SUPPLIERS.	Roevers Clutch Services Pty. Ltd., 10 Burwood Rd., Enfield. 2136	47913	1978	Premise Match	40m	South West
42	Printers Instant	Posh Printing (Burwood), 3A Burwood Rd., Burwood. 2134	58957	1991	Premise Match	41m	South West
	TAKE-AWAY FOODS.	Choo-Choo's, 5 Burwood Rd., Burwood. 2134.	90659	1986	Premise Match	41m	South West
	TAILORS - LADIES &/OR MENS.	Gallaso, V., 7 Burwood Rd., Burwood. 2134.	90253	1986	Premise Match	41m	South West
	OFFICE SUPPLIES &/OR EQUIPMENT - RETAIL.	Prestige, 5 Burwood Rd., Burwood. 2134	70464	1986	Premise Match	41m	South West

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42	TAILORS - LADIES &/OR GENTS.(T0075)	Gallaso, V., 7 Burwood Rd., Burwood. 2134.	77964	1982	Premise Match	41m	South West
	REAL ESTATE AGENTS. (R2555)	Mendoza, J. L. Real Estate, 7 Burwood Rd., Burwood. 2134.	69405	1982	Premise Match	41m	South West
	OFFICE SUPPLIES &/OR EQUIPMENT-RETAIL. (O0800)	Prestige, 5 Burwood Rd., Burwood. 2134.	61471	1982	Premise Match	41m	South West
	BATTERY CHARGING &/OR TESTING EQUIPMENT MFRS. &/OR DISTS. (B1640)	Studio Electronics Pty. Ltd., 3 Burwood Rd., Burwood. 2134.	4945	1982	Premise Match	41m	South West
	BATTERY SALES &/OR SERVICE.(B1820)	Studio Electronics Pty. Ltd., 3 Burwood Rd., Burwood. 2134.	5060	1982	Premise Match	41m	South West
	RECORDING EQUIPMENT MFRS.&/OR IMPS. &/OR DISTS. (R2975)	Studio Electronics Pty. Ltd., 3 Burwood Rd., Burwood. 2134.	70082	1982	Premise Match	41m	South West
	REAL ESTATE AGENTS &/OR VALUERS.	Hansen & Co., 3a Burwood Rd., Burwood. 2134	61740	1978	Premise Match	41m	South West
	STOCK &/OR STATION AGENTS.	Hansen & Co., 3a Burwood Rd., Burwood. 2134	68621	1978	Premise Match	41m	South West
	BUSINESS AGENTS &/OR BROKERS.	Hansen & Co., 3a Burwood Rd., Burwood. 2134.	8683	1978	Premise Match	41m	South West
	RECORDING EQUIPMENT MFRS. &/OR IMPS. &/OR DISTS.	Studio Electronics Pty. Ltd, 3 Burwood Rd, Burwood. 2134	62493	1978	Premise Match	41m	South West
	RECORDING EQUIPMENT MFRS. &/OR IMPS. &/OR DISTS.	Studio Electronics Pty. Ltd, 3 Burwood Road, Burwood North. 2134	62462	1978	Premise Match	41m	South West
	WEBBING MFRS.	Elastic Webbing (Aust) Pty Ltd., 5 Burwood Rd., Burwood. 2134	86726	1975	Premise Match	41m	South West
	BRAIDS &/OR TASSELS MFRS.	Elastic Webbing (Aust) Pty. Ltd., 5 Burwood Rd., Burwood. 2134	8042	1975	Premise Match	41m	South West
	ELASTIC MFRS. &/OR W/SALERS.	Elastic Webbing (Aust.) Pty. Ltd., 5 Burwood Rd., Burwood. 2134	25037	1975	Premise Match	41m	South West
	BUSINESS AGENTS &/OR BROKERS.	Hansen & Co., 3a Burwood Rd., Burwood. 2134	9779	1975	Premise Match	41m	South West
	STOCK &/OR STATION AGENTS.	Hansen & Co., 3a Burwood Rd., Burwood. 2134.	81140	1975	Premise Match	41m	South West
	REAL ESTATE AGENTS &/OR VALUERS.	Hensen & Co., 3a Burwood Rd., Burwood. 2134.	72397	1975	Premise Match	41m	South West
	FURNITURE &/OR FURNISHINGS- RETAIL	Nicholas, F. A. & Sons. 3 Burwood Rd., Concord. 2137	36584	1975	Premise Match	41m	South West
	SANDWICH/LUNCHEON SHOPS (S065)	Barlow, W. J. & S. F., 5 Burwood Rd., Burwood	358599	1970	Premise Match	41m	South West
	HABERDASHERY-RETAIL (H010)	Deslyn's Styles., 3 Burwood Rd., Burwood	313394	1970	Premise Match	41m	South West
	BUSINESS AGENTS &/OR BROKERS(B852)	Hansen & Co., 3a Burwood Rd., Burwood	272744	1970	Premise Match	41m	South West
	BUILDERS & CONTRACTORS (B800)	Hansen Pty. Ltd., 3a Burwood Rd., Burwood	270151	1970	Premise Match	41m	South West
	BUILDING ALTERATIONS & REPAIRS (B816)	Hansen Pty. Ltd., 3a Burwood Rd., Burwood	271678	1970	Premise Match	41m	South West
	BUSINESS AGENTS &/OR BROKERS(B852)	Hansen Stoneham Pty. Ltd., 3a Burwood Rd., Burwood	272745	1970	Premise Match	41m	South West
	REAL ESTATE AGENTS/VALUERS(R205)	Hansen Stoneham Pty. Ltd., 3a Burwood Rd., BURWOOD	355433	1970	Premise Match	41m	South West
	STOCK/STATION AGENTS (S754)	Hansen, Stoneham Pty. Ltd., 3a Burwood Rd., Burwood.	366063	1970	Premise Match	41m	South West
	MIXED BUSINESSES (M408)	Levy Delicatessen., 5 Burwood Rd., Burwood.	333107	1970	Premise Match	41m	South West
	Sandwich & Luncheon Shops	Barlow, W. J. & S. F., 5 Burwood Rd., Burwood	141831	1965	Premise Match	41m	South West
	Baby & Children's Wear - Retail	Burwood Baby Wear., 3 Burwood Rd., Burwood	48752	1965	Premise Match	41m	South West
	TOY DEALERS--- RETAIL	Glasson's, 3a Burwood Rd., Burwood	152920	1965	Premise Match	41m	South West
	Real Estate Agents/Valuers	Hansen & Co., 3a Burwood Rd. Burwood	139034	1965	Premise Match	41m	South West

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
42	Business Agents &/or Brokers	Hansen & Co., 3a Burwood Rd., Burwood	57532	1965	Premise Match	41m	South West
	Insurance Agents	Hansen & Co., 3a Burwood Rd., Burwood	104297	1965	Premise Match	41m	South West
	STOCK/STATION AGENTS	Hansen & Co., 3a Burwood Rd., Burwood	148844	1965	Premise Match	41m	South West
	Sandwich & Luncheon Shops	Provisions & Sandwiches., 5 Burwood Rd., Burwood	142104	1965	Premise Match	41m	South West
	Furniture Removalists/Storage	Underhill, G. & Son., 7 Burwood Rd., Burwood	94200	1965	Premise Match	41m	South West
	SANDWICH/LUNCHEON SHOPS	Barlow, W. J. & S. F., 5 Burwood Rd., Burwood	247401	1961	Premise Match	41m	South West
	BABY & CHILDREN'S WEAR-RETAIL	Fletcher, G. C. Mrs., 3 Burwood Rd., Burwood	270467	1961	Premise Match	41m	South West
	CARPET & FLOOR COVERING PLANNERS & LAYERS	Glassons Carpet Service, 3a Burwood Rd., Burwood	284283	1961	Premise Match	41m	South West
	FURNITURE REMOVALISTS/STORAGE	Underhill, George, 7 Burwood Rd., Burwood	317159	1961	Premise Match	41m	South West
	BABY & CHILDREN'S WEAR-RETAIL	Button Shop (The) (T. V. Reeves), 3 Burwood Rd., Burwood	4456	1950	Premise Match	41m	South West
	BUTTON & BUCKLE COVERING SPECIALISTS	Button Shop (The) (T. V. Reeves), 3 Burwood Rd., Burwood	14708	1950	Premise Match	41m	South West
	BUTTON & BUCKLE MFRS. &/OR WHOLESALERS	Button Shop (The) (T. V. Reeves), 3 Burwood Rd., Burwood	70678	1950	Premise Match	41m	South West
	HABERDASHERY-RETAIL	Button Shop (The) (T. V. Reeves), 3 Burwood Rd., Burwood	58968	1950	Premise Match	41m	South West
	HEMSTITCHING SERVICES	Button Shop (The) (T. V. Reeves), 3 Burwood Rd., Burwood	62019	1950	Premise Match	41m	South West
	GROCERS-RETAIL	Potter, J., 5 .Burwood Rd., Burwood	58765	1950	Premise Match	41m	South West
	FURNITURE REMOVALISTS &/OR STORAGE	Underhill, G. and Son, 7 Burwood Rd., Burwood	53317	1950	Premise Match	41m	South West
	FURNITURE REMOVALISTS &/OR STORAGE	Underhill, G. H. & Son, 7 Burwood Rd., Burwood	53319	1950	Premise Match	41m	South West
	CARRIERS & CARTAGE CONTRACTORS (MASTER)	Underhlll, G. H. and Sons, 7 Burwood Rd., Burwood	20332	1950	Premise Match	41m	South West
	GIFT SHOPS	Zinner, E. M., 3a Burwood Rd., Burwood	54522	1950	Premise Match	41m	South West
43	VETERINARY SURGEONS & HOSPITALS	Burwood-Concord Veterinary Hospital, 19 Burwood Rd., Concord	111939	1950	Premise Match	45m	North
44	MOTOR CAR &/OR TRUCK DEALERS-NEW &/OR USED.	Auto Disposals Pty. Ltd., 300 Parramatta Rd., Burwood. 2134	61945	1986	Premise Match	46m	South East
	MOTOR GARAGES & SERVICE STATIONS.	Esso Burwood Service Station, 298 Parramatta Rd., Burwood. 2134	64612	1986	Premise Match	46m	South East
	MOTOR CAR &/OR TRUCK DEALERS - NEW &/OR USED. (M5840)	Auto Disposals Pty. Ltd., 300 Parramatta Rd., Burwood. 2134.	54670	1982	Premise Match	46m	South East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. (M6860)	Esso Burwood Service Station, 298 Parramatta Rd., Burwood. 2134.	56681	1982	Premise Match	46m	South East
	MOTOR CAR &/OR TRUCK DEALERS-NEW &/OR USED.	Auto Disposals Pty. Ltd., 300 Parramatta Rd., Burwood. 2134	48160	1978	Premise Match	46m	South East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Esso Service Station, 298 Parramatta Rd., Burwood. 2134	49976	1978	Premise Match	46m	South East
	MOTOR CAR &/OR TRUCK DEALERS- NEW &/OR USED.	Auto Disposals Pty. Ltd., 300 Parramatta Rd., Burwood. 2134	57019	1975	Premise Match	46m	South East
	MOTOR GARAGES &/OR ENGINEERS.	Esso Service Station., 298 Parramatta Rd., Burwood. 2134	58816	1975	Premise Match	46m	South East
	MOTOR CAR/TRUCK DEALERS-NEW/USED (M520)	Auto Disposals Pty. Ltd., 300 Parramatta Rd., Burwood	335813	1970	Premise Match	46m	South East
	MOTOR GARAGES & ENGINEERS(M6S6)	Esso Service Station., 298 Parramatta Rd., BURWOOD	337749	1970	Premise Match	46m	South East
	MOTOR BODY REPAIRS/CONVERTERS (M496)	Richard's Auto Repairs., 300 Parramatta Rd., Burwood	335389	1970	Premise Match	46m	South East

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
44	Motor Car/Truck Dealers - New/Used	Auto Disposals Pty. Ltd., 300 Parramatta Rd., Burwood	120504	1965	Premise Match	46m	South East
	Motor Service Stations - Petrol, Oil, Etc.	Esso Service Station, 298 Parramatta Rd. Burwood	125519	1965	Premise Match	46m	South East
	Wickerworkers	Handweaae WIckerworks., 300 Parramatta Rd., Burwood	157072	1965	Premise Match	46m	South East
	Merchants/Importers	Handweave Wickerworks, 300 Parramatta Rd., Burwood	113771	1965	Premise Match	46m	South East
	Basket & Seagrass Ware Mfrs.	Handweave Wickerworks., 300 Parramatta Rd., Burwood	49857	1965	Premise Match	46m	South East
	Motor Body Repairs/Converters	Richard's Auto Repairs, 300 Parramatta Rd., Burwood	120213	1965	Premise Match	46m	South East
	Motor Wreckers	Richard's Autos, 300 Parramatta Rd., Burwood	127452	1965	Premise Match	46m	South East
	MOTOR SERVICE STATIONS—PETROL, OIL, Etc.	Atlantic Service Station, 298 Parramatta Rd. BURWOOD	350319	1961	Premise Match	46m	South East
	MOTOR BODY BUILDERS	Boulton, T., 300 Parramatta Rd., Burwood	344103	1961	Premise Match	46m	South East
	BASKET & SEAGRASS WARE MANUFACTURERS	Handweave Wickerworks, 300 Parramatta Rd., Burwood	271677	1961	Premise Match	46m	South East
	MERCHANTS/IMPORTERS	Handweave Wickerworks, 300 Parramatta Rd., Burwood	337448	1961	Premise Match	46m	South East
	WICKERWORKERS	Handweave Wickerworks, 300 Parramatta Rd., Burwood	262726	1961	Premise Match	46m	South East
	MOTOR BODY BUILDERS	Kennedy and Richard, 300 Parramatta Rd., Burwood	344161	1961	Premise Match	46m	South East
	MOTOR PANEL BEATERS	Richard Auto Repairs, 300 Parramatta Rd., Burwood	349903	1961	Premise Match	46m	South East
	BOAT, LAUNCH & YACHT BUILDERS & REPAIRERS	Richard Bros., 300 Parramatta Rd., Burwood	273679	1961	Premise Match	46m	South East
	MOTOR BODY BUILDERS	Richard’s Auto Repairs, 300 Parramatta Rd., Burwood	344209	1961	Premise Match	46m	South East
	MOTOR BODY BUILDERS	Boulton, T., 300 Parramatta Rd., Burwood	82035	1950	Premise Match	46m	South East
	MOTOR BODY BUILDERS	Kennedy and Richard, 300 Parramatta Rd., Burwood	82109	1950	Premise Match	46m	South East
	BOAT, LAUNCH & YACHT BUILDERS & REPAIRERS	Richard Bros., 300 Parramatta Rd., Burwood	8820	1950	Premise Match	46m	South East
	SPRAYERS-INDUSTRIAL	Richard, E. H., 300 Parramatta Rd., Burwood	104751	1950	Premise Match	46m	South East
45	TRAVEL AGENCIES &/OR BOOKING OFFICES.	R.G. World Travel, 7A Burwood Rd., Burwood. 2134.	95555	1986	Premise Match	55m	South West
	GROCERS - RETAIL. (G7850)	Asian Foods, 7A Burwood Rd., Burwood. 2134.	37373	1982	Premise Match	55m	South West
	BUSINESS AGENTS &/OR BROKERS.	Active Brokers Pty. Ltd., 7A Burwood Rd. Burwood. 2134	9663	1975	Premise Match	55m	South West
	REAL ESTATE AGENTS &/OR VALUERS.	Active Brokers Pty. Ltd., 7A Burwood Rd., Burwood. 2134	71933	1975	Premise Match	55m	South West
	FURNITURE REMOVALS &/OR STORAGE	Driver Em Removals., 7 Burwood Rd., Burwood. 2134	37370	1975	Premise Match	55m	South West
46	FLORISTS-RETAIL.	All Night Florists, 29 Parramatta Rd., Concord. 2137	33625	1986	Premise Match	59m	West
	MOTOR ACCESSORIES – RETAIL .	Concord Spares Pty. Ltd., 29 Parramatta Rd., Concord. 2137	60978	1986	Premise Match	59m	West
	MOTOR SPARE PARTS DEALERS RETAIL.	Concord Spares Pty. Ltd., 29 Parramatta Rd., Concord. 2137	67269	1986	Premise Match	59m	West
	MOTOR WRECKERS.	Concord Spares Pty. Ltd., 29 Parramatta Rd., Concord. 2137	68733	1986	Premise Match	59m	West
	MOTOR CAR &/OR TRUCK DEALERS-NEW &/OR USED.	Talbot and Boulton, 45 Parramatta Rd., Concord. 2137	62344	1986	Premise Match	59m	West
	FLORISTS - RETAIL. (F4125)	All Night Florists, 29 Parramatta Rd., Concord. 2137.	31366	1982	Premise Match	59m	West
	MOTOR WRECKERS. (M8600)	Concord Spares Pty. Ltd, 29 Parramatta Rd., Concord. 2137.	60019	1982	Premise Match	59m	West
	MOTOR ACCESSORIES DEALERS.(M4690)	Concord Spares Pty. Ltd., 29 Parramatta Rd., Concord. 2137.	53761	1982	Premise Match	59m	West

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
46	MOTOR SPARE PARTS DEALERS -RETAIL. (M7840)	Concord Spares Pty. Ltd., 29 Parramatta Rd., Concord. 2137.	59097	1982	Premise Match	59m	West
	MOTOR CAR &/OR TRUCK DEALERS - NEW &/OR USED. (M5840)	Talbot and Boulton, 45 Parramatta Rd., Concord. 2137.	55072	1982	Premise Match	59m	West
	MOTOR PANEL BEATERS	Boulton, A. S. Motor Industries (Concord) Pty. Ltd., 29 Parramatta Rd., Concord. 2137	51886	1978	Premise Match	59m	West
	MOTOR BODY REPAIRS &/OR CONVERTERS.	Boulton. A. S. Motor Industries (Concord) Pty. Ltd., 29 Parramatta Rd., Concord. 2137	47800	1978	Premise Match	59m	West
	MOTOR WRECKERS.	Concord Spares Pty Ltd, 29 Parramatta Rd, Concord 2137	53387	1978	Premise Match	59m	West
	MOTOR WRECKERS.	Concord Spares Pty Ltd, 31 Parramatta Rd, Concord 2137	53388	1978	Premise Match	59m	West
	MOTOR CAR &/OR TRUCK DEALERS-NEW &/OR USED.	Concord Spares Pty. Ltd, 31 Parramatta Rd, Concord. 2137	48239	1978	Premise Match	59m	West
	MOTOR SPARE PARTS DEALERS-RETAIL.	Concord Spares Pty. Ltd. 31 Parramatta Rd., Concord. 2137	52682	1978	Premise Match	59m	West
	MOTOR STEERING SPECIALISTS.	Boulton, A. B. Motor Industries Pty. Ltd., 31 Parramatta Rd., Concord. 2137	62550	1975	Premise Match	59m	West
	MOTOR BODY REPAIRS &/OR CONVERTERS.	Boulton, A. S. Motor industries Pty. Ltd., 31 Parramatta Rd., Concord. 2137	56617	1975	Premise Match	59m	West
	SPRAYERS-INDUSTRIAL	Boulton, A. S. Motor Industries Pty. Ltd., 31 Parramatta Rd., Concord. 2137	79360	1975	Premise Match	59m	West
	MOTOR BODY REPAIRS &/OR CONVERTERS.	Boulton, A. S. Motor Industries., 31 Parramatta Rd., Concord. 2137	56616	1975	Premise Match	59m	West
	MOTOR SPARE PARTS DEALERS- RETAIL	Concord Spares Pty. Ltd., 31 Parramatta Rd., Concord. 2137	62174	1975	Premise Match	59m	West
	MOTOR WRECKERS.	Concord Spares Pty. Ltd., 31 Parramatta Rd., Concord. 2137	62937	1975	Premise Match	59m	West
	MOTOR CAR &/OR TRUCK DEALERS- NEW &/OR USED.	Concord Spars Pty. Ltd., 31 Parramatta Rd., Concord. 2137.	57107	1975	Premise Match	59m	West
	INSURANCE BROKERS-MARINE(I525)	Bonus Benefit Insurances., 41 Parramatta Rd., Concord	320135	1970	Premise Match	59m	West
	INSURANCE COMPANIES-LIFE (I535)	Bonus Benefit Insurances., 41 Parramatta Rd., Concord	320373	1970	Premise Match	59m	West
	INSURANCE CONSULTANTS (I560)	Bonus Benefit Insurances., 41 Parramatta Rd., Concord	320422	1970	Premise Match	59m	West
	INSURANCE-MARINE-SPEC. (I570)	Bonus Benefit Insurances., 41 Parramatta Rd., Concord	320455	1970	Premise Match	59m	West
	INSURANCE-MOTOR-SPEC. (1580)	Bonus Benefit Insurances., 41 Parramatta Rd., Concord	320480	1970	Premise Match	59m	West
	INSURANCE COMPANIES-GENERAL(I530)	Bonus Benefit Insurances., 41 Parramatta Rd., Concord.	320177	1970	Premise Match	59m	West
	INSURANCE BROKERS (I520)	Bonus Benefit'Insurances., 41 Parramatta Rd., Concord	319972	1970	Premise Match	59m	West
	MOTOR BODY BUILDERS (M488)	Boulton, A. S. Motor Industries Pty. Ltd., 31 Parramatta Rd., Concord	335147	1970	Premise Match	59m	West
	MOTOR BODY REPAIRS/CONVERTERS (M496)	Boulton, A. S. Motor Industries Pty. Ltd., 31 Parramatta Rd., Concord	335280	1970	Premise Match	59m	West
	MOTOR CHASSIS STRAIGHTENERS &/OR REPAIRERS/SPECIALISTS (M574)	Boulton, A. S. Motor Industries Pty. Ltd., 31 Parramatta Rd., Concord	336477	1970	Premise Match	59m	West
	MOTOR PAINTERS (M672)	Boulton, A. S. Motor Industries Pty. Ltd., 31 Parramatta Rd., Concord	339146	1970	Premise Match	59m	West
	MOTOR PANEL BEATERS (M680)	Boulton, A. S. Motor Industries Pty. Ltd., 31 Parramatta Rd., Concord	339876	1970	Premise Match	59m	West
	MOTOR STEERING SPECIALISTS (M736)	Boulton, A. S. Motor Industries Pty. Ltd., 31 Parramatta Rd., Concord	342271	1970	Premise Match	59m	West
	MOTOR TOWING SERVICES (M744)	Boulton, A. S. Motor Industries Pty. Ltd., 31 Parramatta Rd., Concord	342412	1970	Premise Match	59m	West

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46	SPRAYERS-INDUSTRIAL (S461)	Boulton, A. S. Motor Industries Pty. Ltd., 31 Parramatta Rd., Concord.	363776	1970	Premise Match	59m	West
	CYCLE DEALERS & ACCESSORIES(C798)	Bowles & Brodie., 33 Parramatta Rd., Concord	286774	1970	Premise Match	59m	West
	MOTOR BODY BUILDERS (M488)	Concord Spares Pty. Ltd., 31 Parramatta Rd., Concord	335158	1970	Premise Match	59m	West
	MOTOR PANEL BEATERS (M680)	Concord Spares Pty. Ltd., 31 Parramatta Rd., Concord	339947	1970	Premise Match	59m	West
	MOTOR SPARE PARTS DEALERS-RETAIL (M728)	Concord Spares Pty. Ltd., 31 Parramatta Rd., Concord	341783	1970	Premise Match	59m	West
	MOTOR TOWING SERVICES (M744)	Concord Spares Pty. Ltd., 31 Parramatta Rd., Concord	342437	1970	Premise Match	59m	West
	MOTOR WRECKERS (M760)	Concord Spares Pty. Ltd., 31 Parramatta Rd., Concord	342812	1970	Premise Match	59m	West
	SPRAYERS-INDUSTRIAL (S461)	Concord Spares Pty. Ltd., 31 Parramatta Rd., Concord	363779	1970	Premise Match	59m	West
	WELDERS-ELECTRIC &/OR OXY	Concord Spares Pty. Ltd., 31 Parramatta Rd., Concord	373557	1970	Premise Match	59m	West
	MOTOR ACCESSORIES/DEALERS (M448)	Concord Towing & Spares Pty. Ltd., 31 Parramatta Rd., Concord	334604	1970	Premise Match	59m	West
	RADIO &/OR TELEVISION COMPONENT PARTS MFRS. (R065)	Gray, G J. & Co. Pty. Ltd., 31 Parramatta Rd., Concord	354069	1970	Premise Match	59m	West
	FRUITERERS/GREENGROCERS (F640)	Liwos, A., 37 Parramatta Rd., Concord	307402	1970	Premise Match	59m	West
	BUTCHERS-RETAIL (B860)	Powles, J. P., 35 Parramatta Rd., Concord	274355	1970	Premise Match	59m	West
	ELECTRICAL CONTRACTORS-LICENSED FIRMS (E305)	Sheather, Kevin R. & Co. Pty. Ltd., 37 Parramatta Rd., Concord, 2137	295095	1970	Premise Match	59m	West
	ELECTRICAL CONTRACTORS-LICENSED (E300)	Sheather, Kevin R. A Co. Pty. Ltd., 37 Parramatta Rd., CONCORD	294885	1970	Premise Match	59m	West
	ELECTRICAL CONTRACTORS-LICENSED (E300)	Sheather, Kevin R. A Co. Pty. Ltd., 37 Parramatta Rd., CONCORD	295388	1970	Premise Match	59m	West
	Fish Merchants - Retail	Aik's Seafoods, 39 Parramatta Rd., Concord	86636	1965	Premise Match	59m	West
	SPRAYERS ---INDUSTRIAL	Boulton Motor Industries, 29a Parramatta Rd., Concord	146752	1965	Premise Match	59m	West
	Welders - Electric &/or Oxy	Boulton Motor industries., 29a Parramatta Rd., Concord	156284	1965	Premise Match	59m	West
	Motor Panel Beaters	Boulton, A. S. Motor Industries, 29a Parramatta Rd., Concord	124467	1965	Premise Match	59m	West
	Cycle Dealers & Accessories	Bowles & Brodie, 33 Parramatta Rd., Concord	71495	1965	Premise Match	59m	West
	Motor Towing Services	Burwood Towing Service, 29 Parramatta Rd., Concord	127010	1965	Premise Match	59m	West
	Motor Spare Parts Dealers - Retail	Concord Towing & Spares Pty. Ltd., 41 Parramatta Rd., Concord	126398	1965	Premise Match	59m	West
	Motor Towing Services	Concord Towing & Spares Pty. Ltd., 41 Parramatta Rd., Concord	127025	1965	Premise Match	59m	West
	Motor Wreckers	Concord Towing & Spares Pty. Ltd., 41 Parramatta Rd., Concord	127413	1965	Premise Match	59m	West
	Tyre Dealers, Retreaders & Vulcanizers	Concord Tyre Service, 43 Parramatta Rd., Concord	154677	1965	Premise Match	59m	West
	Radio &/or Television Component Parts Mfrs.	Gray, G. J. & Co. Pty. Ltd., 31 Parramatta Rd., Concord	137794	1965	Premise Match	59m	West
	Fruiterers & Greengrocers	Liwos, A., 37 Parramatta Rd., Concord	91592	1965	Premise Match	59m	West
	Butchers - Retail	Powles, J. P., 35 Parramatta Rd., Concord	59112	1965	Premise Match	59m	West
	Radio &/Or Television Sales & Servicemen	Ray's Radio., 27b Parramatta Rd. Concord	138140	1965	Premise Match	59m	West
	Butchers - Retail	Selby, Chris., 35 Parramatta Rd., Concord	59263	1965	Premise Match	59m	West
	FISH MERCHANTS-RETAIL	Alk's Seafoods, 39 Parramatta Rd., Concord	310859	1961	Premise Match	59m	West

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46	MOTOR BODY BUILDERS	Boulton, A. S., 29a Parramatta Rd., Concord	344102	1961	Premise Match	59m	West
	SPRAYERS-INDUSTRIAL	Boulton, A. S., 29a Parramatta Rd., Concord	252371	1961	Premise Match	59m	West
	WELDERS-ELECTRIC &/OR OXY	Boulton, A. S., 29a Parramatta Rd., Concord	261923	1961	Premise Match	59m	West
	MOTOR SPARE PARTS DEALERS—RETAIL	Boulton, A. S., 41 Parramatta Rd., Concord	351404	1961	Premise Match	59m	West
	CYCLE DEALERS & ACCESSORIES	Bowles & Brodle, 33 Parramatta Rd., Concord	294182	1961	Premise Match	59m	West
	MOTOR TOWING SERVICES	Burwood Towing Service, 29 Parramatta Rd., Concord	352085	1961	Premise Match	59m	West
	MOTOR TOWING SERVICES	Concord Towing & Spares Pty Ltd 41 Parramatta Rd., Concord	352096	1961	Premise Match	59m	West
	MOTOR SPARE PARTS DEALERS—RETAIL	Concord Towing & Spares Pty. Ltd., 41 Parramatta Rd., Concord	351465	1961	Premise Match	59m	West
	MOTOR TOWING SERVICES	Concord Towing & Spares Pty. Ltd., 41 Parramatta Rd., Concord	352097	1961	Premise Match	59m	West
	MOTOR WRECKERS	Concord Towing & Spares Pty. Ltd., 41 Parramatta Rd., Concord	352495	1961	Premise Match	59m	West
	MOTOR CHASSIS STRAIGHTENING EQUIPMENT MFRS.	Curley, S. T. Pty. Ltd., 29 Parramatta Rd., Concord	345653	1961	Premise Match	59m	West
	MOTOR PAINTERS	Curley, S. T. Pty. Ltd., 29 Parramatta Rd., Concord	348774	1961	Premise Match	59m	West
	MOTOR PANEL BEATERS	Curley, S. T. Pty. Ltd., 29 Parramatta Rd., Concord	349511	1961	Premise Match	59m	West
	MOTOR GARAGES & ENGINEERS	Curley, S. T., 29 Parramatta Rd. Concord	347000	1961	Premise Match	59m	West
	RADIO &/OR TELEVISION COMPONENT PARTS MFRS.	Gray, G. J. & Co. Pty. Ltd., 31 Parramatta Rd., Concord	363821	1961	Premise Match	59m	West
	ELECTRICAL SUPPLIES/APPLIANCES-WHOLESALE	Gray, Geoff J. & Co. Pty. Ltd., 31 Parramatta Rd., Concord	303550	1961	Premise Match	59m	West
	ELECTRIC LIGHT GLOBE & ELEMENT MFRS. &/OR DISTS.	Gray, Geoffrey J. & Co. Pty. Ltd, 31 Parramatta Rd, Concord	300733	1961	Premise Match	59m	West
	BATH & SINK HEATERS-ELECTRIC-MFRS. &/OR DISTS.	Gray, Geoffrey J. & Co. Pty. Ltd., 31 Parramatta Rd., Concord	271709	1961	Premise Match	59m	West
	COPPERS-ELECTRIC-MFRS. &/OR DISTS.	Gray, Geoffrey J. & Co. Pty. Ltd., 31 Parramatta Rd., Concord	293170	1961	Premise Match	59m	West
	ELECTRIC CABLE, FLEX & WIRE MFRS. &/OR DISTS.	Gray, Geoffrey J. & Co. Pty. Ltd., 31 Parramatta Rd., Concord	300142	1961	Premise Match	59m	West
	ELECTRIC ELEMENT MFRS. &/OR DISTRIBUTORS	Gray, Geoffrey J. & Co. Pty. Ltd., 31 Parramatta Rd., Concord	300330	1961	Premise Match	59m	West
	ELECTRIC LIGHT FITTINGS (SHADES, STANDARD BRACKETS, ETC) MFRS. &/OR DISTS.	Gray, Geoffrey J. & Co. Pty. Ltd., 31 Parramatta Rd., Concord	300664	1961	Premise Match	59m	West
	ELECTRIC SWITCH & CONTROL GEAR MFRS. &/OR DISTS.	Gray, Geoffrey J. & Co. Pty. Ltd., 31 Parramatta Rd., Concord	301321	1961	Premise Match	59m	West
	HOT WATER SYSTEMS-ELECTRIC-MFRS. &/OR DISTS.	Gray, Geoffrey J. & Co. Pty. Ltd., 31 Parramatta Rd., Concord	324947	1961	Premise Match	59m	West
	ELECTRIC CONDUIT/WIRING ACCESSORIES MFRS.	Gray. Geoffrey J. 1 Co. Pty. Ltd., 31 Parramatta Rd., Concord	300295	1961	Premise Match	59m	West
	BUTCHERS-WHOLESALE	Homebush Boneless Meat Service, 41 Parramatta Rd., Homebush	281476	1961	Premise Match	59m	West
	FRUITERERS/GREENGROCERS	Liwos, A., 37 Parramatta Rd., Concord	315675	1961	Premise Match	59m	West
	BUTCHERS-RETAIL	Powles, J. P., 35 Parramatta Rd., Concord	281005	1961	Premise Match	59m	West
	BUTCHERS-RETAIL	Selby, Chris, 35 Parramatta Rd., Concord	281144	1961	Premise Match	59m	West
	ELECTRICAL CONTRACTORS-LICENSED	Wallace, A. E. & Co., 31 Parramatta Rd., Concord	302682	1961	Premise Match	59m	West

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
46	ELECTRICAL SUPPLIES/APPLIANCES RETAILERS	Wallace, A. E. & Co., 31 Parramatta Rd., Concord	303452	1961	Premise Match	59m	West
	ELECTROPLATERS	Wallace, A. E. & Co., 31 Parramatta Rd., Concord	303983	1961	Premise Match	59m	West
	MOTOR SPARE PARTS MFRS. &/OR WHOLESALERS	Warren, Bill, 41 Parramatta Rd., Concord	351937	1961	Premise Match	59m	West
	GROCERS-RETAIL	Barker, R D., 39 Parramatta Rd., Concord	56371	1950	Premise Match	59m	West
	MOTOR BODY BUILDERS	Boulton, A. S., 29a Parramatta Rd., Concord	82034	1950	Premise Match	59m	West
	MOTOR PAINTERS	Boulton, A. S., 29a Parramatta Rd., Concord	84725	1950	Premise Match	59m	West
	MOTOR PANEL BEATERS	Boulton, A. S., 29a Parramatta Rd., Concord	85184	1950	Premise Match	59m	West
	SPRAYERS-INDUSTRIAL	Boulton, A. S., 29a Parramatta Rd., Concord	104718	1950	Premise Match	59m	West
	WELDERS-ELECTRIC &/OR OXY	Boulton, A. S., 29a Parramatta Rd., Concord	112676	1950	Premise Match	59m	West
	MOTOR CYCLE SALES & SERVICE	Bowles, J., 33 Parramatta Rd., Concord	82899	1950	Premise Match	59m	West
	CYCLE DEALERS & ACCESSORIES	Bowles, R. H., 33 Parramatta Rd., Concord	29846	1950	Premise Match	59m	West
	MOTOR CYLINDER REBORERS	Campbell and Eades, 29 Parramatta Rd., Concord	83021	1950	Premise Match	59m	West
	MOTOR ENGINE RECONDITIONERS	Campbell and Eades, 29 Parramatta Rd., Concord	83252	1950	Premise Match	59m	West
	MOTOR GARAGES &/OR ENGINEERS	Campbell and Eades, 29 Parramatta Rd., Concord	83538	1950	Premise Match	59m	West
	CARRIERS & CARTAGE CONTRACTORS	Paul and Son, 43 Parramatta Rd., Concord	19543	1950	Premise Match	59m	West
	MOTOR PANEL BEATERS	Phillips, N., 29 Parramatta Rd., Concord	85445	1950	Premise Match	59m	West
	BUTCHERS-RETAIL	Powles, J. P., 35 Parramatta Rd., Concord	14152	1950	Premise Match	59m	West
	HAIRDRESSERS (GENT.'S) &/OR TOBACCONISTS	Quinnell, C., 37 Parramatta Rd., Concord	59936	1950	Premise Match	59m	West
	ELECTROPLATERS	Wallace, A. E. and Co., 31 Parramatta Rd., Concord	39295	1950	Premise Match	59m	West
	JEWELLERS-RETAIL &/OR WATCHMAKERS	Wallace, A. E. and Co., 31 Parramatta Rd., Concord	66425	1950	Premise Match	59m	West
	WATCHMAKERS-REPAIRS TO THE TRADE	Wallace, A. E. and Co., 31 Parramatta Rd., Concord	112454	1950	Premise Match	59m	West
	GROCERS-RETAIL	White, E., 39 Parramatta Rd., Concord	56138	1950	Premise Match	59m	West
47	RESTAURANTS.	Dunko Place, 14 Burwood Rd., Burwood. 2134	81498	1986	Premise Match	59m	South West
	RESTAURANTS. (R5180)	Dunka Place, The, 14 Burwood Rd., Burwood. 2134.	70756	1982	Premise Match	59m	South West
	AUCTIONEERS-GENERAL.	Klaric, V., 14 Burwood Rd., Burwood. 2134	3615	1978	Premise Match	59m	South West
	REAL ESTATE AGENTS &/OR VALUERS.	Klaric. V., 14 Burwood Rd., Burwood. 2134	61894	1978	Premise Match	59m	South West
	NEWSPAPER PUBLISHERS	El Telegraph., 14 Burwood Rd., Burwood. 2134	63965	1975	Premise Match	59m	South West
48	Motor Garages & Service Stations	Burwood Shore Service Station, 20 Burwood Rd., Burwood 2134	97601	1991	Premise Match	64m	South West
	MOTOR GARAGES & SERVICE STATIONS.	Burwood Mobil Service Station, 20 Burwood Rd., Burwood. 2134	64286	1986	Premise Match	64m	South West
	MOTOR HIRE SERVICES-DRIVE YOURSELF &/OR RENTAL	Budget Rent & Car., 18 Burwood Rd., Burwood. 2134	59852	1975	Premise Match	64m	South West
	MOTOR CAR &/OR TRUCK DEALERS- NEW &/OR USED.	Deweriy R, Motors., 18 Burwood Rd., Burwood. 2134.	57131	1975	Premise Match	64m	South West
	MOTOR GARAGES &/OR ENGINEERS.	Dewerly, R. Motors., 18 Burwood Rd., Burwood. 2134	58757	1975	Premise Match	64m	South West

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
48	REAL ESTATE AGENTS &/OR VALUERS.	Klaric, V., 16 Burwood Rd., Burwood. 2134	72572	1975	Premise Match	64m	South West
	AUCTIONEERS-GENERAL	Klaric. V., 16 Burwood Rd., Burwood. 2134	3362	1975	Premise Match	64m	South West
	MOTOR GARAGES & ENGINEERS(M6S6)	Myobb Motors., 16-22 Burwood Rd., BURWOOD	338310	1970	Premise Match	64m	South West
	Motor Garages & Engineers	Myobb Motors, 16-22 Burwood Rd. Burwood	122324	1965	Premise Match	64m	South West
49	HOTELS-PRIVATE.	Lansdown House, 25 Burton St., Concord. 2137	36522	1978	Premise Match	64m	North West
	VETERINARY SURGEONS	Baxter, J. W., 25 Burton St., Concord	261047	1961	Premise Match	64m	North West
50	REAL ESTATE AGENTS &/OR VALUERS.	P. Burcul Estate Agents, 7B Burwood Rd., Burwood. 2134	62071	1978	Premise Match	65m	South West
	REAL ESTATE AGENTS &/OR VALUERS.	P. Burcul Estate Agents., 7B Burwood Rd., Burwood. 2134	72765	1975	Premise Match	65m	South West
	REAL ESTATE AGENTS/VALUERS	Sheiles, E. K., 7b Burwood Rd. BURWOOD	365172	1961	Premise Match	65m	South West
	INSURANCE AGENTS	Sheiles, E. K., 7b Burwood Rd., Burwood	328003	1961	Premise Match	65m	South West
51	Motor Car Dealers New &/or Used	Thompson John Sports Cars Pty Ltd, 356 Parramatta Rd, Burwood 2134	52659	1991	Premise Match	69m	West
	MOTOR CAR &/OR TRUCK DEALERS- NEW &/OR USED.	Thompson, John Performance Cars Pty. Ltd., 358 Parramatta Rd., Burwood. 2134.	57453	1975	Premise Match	69m	West
	Motor Car/Truck Dealers - New/Used	Thomas Motors Pty. Ltd., 358 Parramatta Rd., Burwood	120991	1965	Premise Match	69m	West
52	SAUSAGE CASING MFRS. &/OR DISTS.	Bemheimer Australia Pty. Ltd., 9 Burwood Rd., Burwood. 2134	84482	1986	Premise Match	70m	South West
	AEROSOL PACKAGING SPECIALISTS.	Oppenheimer Australia Pty. Ltd., 9 Burwood Rd, Burwood. 2134	1686	1986	Premise Match	70m	South West
	MOTOR CAR/TRUCK DEALERS-NEW/USED (M520)	Auto City., 9 Burwood Rd., Burwood	335812	1970	Premise Match	70m	South West
	Motor Car/Truck Dealers - New/Used	Burwood Autos (Wholesale), 9 Burwood Rd., Burwood	120547	1965	Premise Match	70m	South West
	MOTOR CAR/TRUCK DEALERS—NEW/USED	H. & R. Motors, 9 Burwood Rd., Burwood	345064	1961	Premise Match	70m	South West
53	MIXED BUSINESSES (M408)	Old Fruit Shop (The)., 23 Burwood Rd., Concord	333482	1970	Premise Match	70m	North
	Mixed Businesses	Old Fruit Shop (The), 23 Burwood Rd., Concord	118243	1965	Premise Match	70m	North
	FRUITERERS/GREENGROCERS	Rowles, W. A., 23 Burwood Rd., Concord	316105	1961	Premise Match	70m	North
54	ENGINEERS-GENERAL/MFRG./ MECHANICAL	Stapleton, F. A., 15 Burton St., Concord	307058	1961	Premise Match	71m	North East
	ENGINEERS-GENERAL &/OR MANUFACTURING &/OR MECHANICAL	Stapleton, F. A., 15 Burton St., Concord	41275	1950	Premise Match	71m	North East
55	PAINTERS, PAPERHANGERS/DECORATORS	Stringfellow, M. E., 1 Burton St., Concord	356423	1961	Premise Match	76m	North East
56	ROOFING CONTRACTORS &/OR REPAIRERS.	A. & K. Aluminium Pty, Ltd., 11 Burwood Rd, Burwood. 2134	83599	1986	Premise Match	89m	South West
	ALUMINIUM CLADDING SPECIALISTS.	A. & K. Aluminium Pty. Ltd., 11 Burwood Rd., Burwood. 2134	2666	1986	Premise Match	89m	South West
	BUILDING ALTERATIONS &/OR REPAIRS.	A. & K. Aluminium Pty. Ltd., 11 Burwood Rd., Burwood.2134	8832	1986	Premise Match	89m	South West
	WINDOW &/OR DOOR - ALUMINIUM MFRS. &/OR DISTS. &/OR INSTALLERS.	A.& K. Aluminium Pty. Ltd., 11 Burwood Rd., Burwood. 2134	98999	1986	Premise Match	89m	South West
	VIDEO RECORDER &/OR CASSETTE SALES &/OR HIRE &/OR SERVICE.	Electronic Enterprises Pty. Ltd. 11 Burwood Rd. Burwood. 2134	97539	1986	Premise Match	89m	South West
	ELECTRICAL SUPPLIES &/OR APPLIANCES-RETAIL.	Electronic Enterprises Pty. Ltd., 11 Burwood Rd., Burwood. 2134	27418	1986	Premise Match	89m	South West
	HI-FIDELITY EQUIPMENT SALES &/OR SERVICE.	Electronic Enterprises Pty. Ltd., 11 Burwood Rd., Burwood. 2134	45602	1986	Premise Match	89m	South West

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
56	RADIO &/OR TELEVISION SALES &/OR SERVICEMEN.	Electronic Enterprises Pty. Ltd., 11 Burwood Rd., Burwood. 2134	78755	1986	Premise Match	89m	South West
	HEALTH CENTRES &/OR CLINICS.	Outlook, 11 Burwood Rd., Burwood. 2134	45110	1986	Premise Match	89m	South West
	ROOFING CONTRACTORS &/OR REPAIRERS. (R6475)	A & K. Aluminium Pty. Ltd., 11 Burwood Rd., Burwood. 2134.	72324	1982	Premise Match	89m	South West
	ALUMINIUM PRODUCTS MFRS.&/OR DISTS. (A5160)	A. & K. Aluminium Pty. Ltd., 11 Burwood Rd., Burwood. 2134	2450	1982	Premise Match	89m	South West
	ALUMINIUM CLADDING SPECIALISTS. (A4935)	A. & K. Aluminium Pty. Ltd., 11 Burwood Rd., Burwood. 2134.	2333	1982	Premise Match	89m	South West
	BUILDERS &/OR BUILDING CONTRACTORS. (B6920)	A. & K. Aluminium Pty. Ltd., 11 Burwood Rd., Burwood. 2134.	9107	1982	Premise Match	89m	South West
	BUILDING ALTERATIONS &/ORREPAIRS. (B7140)	A. & K. Aluminium Pty. Ltd., 11 Burwood Rd., Burwood. 2134.	9981	1982	Premise Match	89m	South West
	WINDOW FRAMES-ALUMINIUM - MFRS. &/OR DISTS. (W5320)	A. & K. Aluminium Pty. Ltd., 11 Burwood Rd., Burwood. 2134.	84499	1982	Premise Match	89m	South West
	ELECTRICAL SUPPLIES &/OR APPLIANCES - RETAIL. (E3840)	Electronic Enterprises Pty. Ltd., 11 Burwood Rd., Burwood. 2134.	25731	1982	Premise Match	89m	South West
	HI-FIDELITY EQUIPMENT SALES & /OR SERVICE. (H3897)	Electronic Enterprises Pty. Ltd., 11 Burwood Rd., Burwood. 2134.	39943	1982	Premise Match	89m	South West
	RADIO &/OR TELEVISION SALES&/OR SERVICEMEN. (R1260)	Electronic Enterprises Pty. Ltd., 11 Burwood Rd., Burwood. 2134.	68287	1982	Premise Match	89m	South West
	STEREOPHONIC EOUIPMENT MFRS. &/OR DISTS. (S6940)	Electronic Enterprises Pty. Ltd., 11 Burwood Rd., Burwood. 2134.	77252	1982	Premise Match	89m	South West
	BEAUTY SALONS &/OR LADIES HAIRDRESSERS. (B2000)	Nihat Hair & Beauty, 11 Burwood Rd., Burwood. 2134.	6270	1982	Premise Match	89m	South West
	ALUMINIUM PRODUCTS MFRS. &/OR DISTS	A & K. Aluminium Pty. Ltd., 11 Burwood Rd., Burwood. 2134	2306	1978	Premise Match	89m	South West
	ELECTRICAL SUPPLIES &/OR APPLIANCES-RETAIL.	Electronic Enterprises Pty. Ltd., 11 Burwood Rd., Burwood. 2134	22762	1978	Premise Match	89m	South West
	ELECTRICAL SUPPLIES &/OR APPLIANCES-RETAIL.	Electronic Enterprises Pty. Ltd., 11 Burwood Rd., Burwood. 2134	22764	1978	Premise Match	89m	South West
	RADIO &/OR TELEVISION SALES &/OR SERVICEMEN.	Electronic Enterprises Pty. Ltd., 11 Burwood Rd., Burwood. 2134	61079	1978	Premise Match	89m	South West
	STEREOPHONIC EQUIPMENT MFRS. &/OR DISTS.	Electronic Enterprises Pty. Ltd., 11 Burwood Rd., Burwood. 2134	68456	1978	Premise Match	89m	South West
	STEREOPHONIC EQUIPMENT MFRS. &/OR DISTS.	Electronic Enterprises Pty. Ltd., 11 Burwood Rd., Burwood. 2134	68457	1978	Premise Match	89m	South West
	ALUMINIUM PRODUCTS MFRS. &/OR DISTS.	A. & K. Aluminium Pty. Ltd., 11 Burwood Rd., Burwood. 2134	2120	1975	Premise Match	89m	South West
	ELECTRICAL SUPPLIES &/OR APPLIANCES-RETAIL	Electronic Enterprises Pty, Ltd., 11 Burwood Rd., Burwood. 2134	26310	1975	Premise Match	89m	South West
	RADIO &/OR TELEVISION SALES &/OR SERVICEMEN.	Electronic Enterprises Pty. Ltd., 11 Burwood Rd., Burwood. 2134	71612	1975	Premise Match	89m	South West
	STEREOPHONIC EQUIP MFRS &/OR DISTS.	Electronic Enterprises Pty. Ltd., 11 Burwood Rd., Burwood. 2134	80902	1975	Premise Match	89m	South West
	OSTEOPATHS (O 320)	Trees, Alfred J., 13 Burwood Rd., Burwood	345577	1970	Premise Match	89m	South West
57	LAWNMOWER SALES &/OR SERVICE.	Mowers, S. & V., 1A Shaftsbury Rd., Burwood. 2134	51408	1986	Premise Match	93m	South East
	LAWNMOWER SALES &/OR.SERVICE. (L2600)	Mowers. S. & V., 1A Shaftsbury Rd., Burwood. 2134.	45043	1982	Premise Match	93m	South East
	LAWNMOWER SALES & OR SERVICE	Tumeth. H. Pty. Ltd., 1a Shaftsbury Rd., Burwood. 2134	39997	1978	Premise Match	93m	South East
	LAWN MOWER SALES/SERVICE (L310)	Tumeth, H., 1a Shaftesbury Rd., Burwood	322831	1970	Premise Match	93m	South East

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Business Directory Records 1950-1991
Road or Area Matches

Universal Business Directory records from years 1991, 1986, 1982, 1978, 1975, 1970, 1965, 1961 & 1950, mapped to a road or an area, within the dataset buffer. Records are mapped to the road when a building number is not supplied, cannot be found, or the road has been renumbered since the directory was published:

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
58	Motor Car Dealers New &/or Used	Cullen E D Pty Ltd, Parramatta Rd Concord 2137	52426	1991	Road Match	0m
	MOTOR CAR &/OR TRUCK DEALERS-NEW &/OR USED.	Derek Inns Car Centre, Parramatta Rd., South Strathfield. 2136	62048	1986	Road Match	0m
	MOTOR CAR &/OR TRUCK DEALERS - NEW &/OR USED. (M5840)	Derek Inns, Parramatta Rd., Strathfield. 2135.	54768	1982	Road Match	0m
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Cullen, E D. Pty. Ltd., Parramatta Rd., Concord. 2137	49870	1978	Road Match	0m
	MOTOR PANEL BEATERS	Cullen, E. D. Pty. Ltd., Parramatta Rd., Concord. 2137	51967	1978	Road Match	0m
	MOTOR CAR &/OR TRUCK DEALERS-NEW &/OR USED.	Cullen, E.D. Pty. Ltd., Parramatta Rd., Concord. 2137	48255	1978	Road Match	0m
	MOTOR ACCESSORIES DEALERS.	Cullen. E. D. Pty. Ltd., Parramatta Rd., Concord. 2137	47346	1978	Road Match	0m
	MOTOR BODY REPAIRS &/OR CONVERTERS.	Cullen. E.D. Pty. Ltd., Parramatta Rd., Concord. 2137	47814	1978	Road Match	0m
	MOTOR SPARE PARTS DEALERS-RETAIL.	McCallum Motors Pty Ltd, Parramatta Rd, Concord 2137	52761	1978	Road Match	0m
	MOTOR ACCESSORIES DEALERS.	McCallum Motors Pty. Ltd., Parramatta Rd., Concord. 2137	47436	1978	Road Match	0m
	MOTOR CAR &/OR TRUCK DEALERS-NEW &/OR USED.	McCallum Motors Pty. Ltd., Parramatta Rd., Concord. 2137	48402	1978	Road Match	0m
	MOTOR PAINTERS.	McCallum Motors Pty. Ltd., Parramatta Rd., Concord. 2137	51554	1978	Road Match	0m
	MOTOR PANEL BEATERS	McCallum Motors Pty. Ltd., Parramatta Rd., Concord. 2137	52205	1978	Road Match	0m
	MOTOR SERVICE STATIONS - PETROL, OIL	Golden Fleece Service Station., Parramatta Rd., Strathfield. 2135	61787	1975	Road Match	0m
	MOTOR ACCESSORIES DEALERS.	McCallum Motors Pty. Ltd., Parramatta Rd., Concord. 2137	56232	1975	Road Match	0m
	MOTOR ACCESSORIES-W/SALE	McCallum Motors Pty. Ltd., Parramatta Rd., Concord. 2137	56464	1975	Road Match	0m
	MOTOR CAR &/OR TRUCK DEALERS- NEW &/OR USED.	McCallum Motors Pty. Ltd., Parramatta Rd., Concord. 2137	57294	1975	Road Match	0m
	MOTOR PAINTERS.	McCallum Motors Pty. Ltd., Parramatta Rd., Concord. 2137	60283	1975	Road Match	0m
	MOTOR PANEL BEATERS.	McCallum Motors Pty. Ltd., Parramatta Rd., Concord. 2137	60955	1975	Road Match	0m
	MOTOR SPARE PARTS DEALERS- RETAIL	McCallum Motors Pty. Ltd., Parramatta Rd., Concord. 2137	62275	1975	Road Match	0m
	MOTOR PANEL BEATERS.	Prestige Smash Repairs., Parramatta Rd., Concord. 2137	61052	1975	Road Match	0m
	MOTOR SERVICE STATIONS-PETROL,OIL,Etc.	Brown, E. G., Parramatta Rd., STRATHFIELD	340908	1970	Road Match	0m
	Motor Cycle Sales/Service	Mark's Motor Cycles Pty. Ltd., Parramatta Rd., Strathfield	121418	1965	Road Match	0m
	Motor Service Stations - Petrol, Oil, Etc.	Newton, L. D. Pty. Ltd., Parramatta Rd. Strathfield	126180	1965	Road Match	0m
	RADIO &/OR TELEVISION SALES & SERVICEMEN	Acratone Radio Sales & Service, 1330 Parramatta Rd. CONCORD	364124	1961	Road Match	0m
	MOTOR CYCLE SALES/SERVICE	Mark's Motor Cycles Pty. Ltd., Parramatta Rd., Strathfield	345809	1961	Road Match	0m
	MOTOR SERVICE STATIONS—PETROL, OIL, Etc.	Newton, L. D. Pty. Ltd., Parramatta Rd. STRATHFIELD	350906	1961	Road Match	0m

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
58	DIE & PRESS TOOL MAKERS	Clark, W., Four Ways, Parramatta Rd., Concord	32670	1950	Road Match	0m
	MOTOR GARAGES &/OR ENGINEERS	Four Ways Garage, Parramatta Rd., Concord	83761	1950	Road Match	0m
	MOTOR SERVICE STATIONS-PETROL, Etc.	Four Ways Garage, Parramatta Rd., Concord	85969	1950	Road Match	0m
	HOTELS-LICENSED	Oriental Hotel, Parramatta Rd., Concord	63291	1950	Road Match	0m
	CYLINDER REBORING SPECIALISTS	Pike Bros., Parramatta Rd., Strathfield	30092	1950	Road Match	0m
59	Hire Services	GKN Rental, Parramatta Rd., Burwood. 2134	48435	1991	Road Match	0m
	COMPUTER EQUIPMENT &/OR BUREAU & TIME SHARING SERVICES.	Zoffary Enterprises Pty. Ltd., Parramatta Rd., Burwood. 2134	19456	1986	Road Match	0m
	COMPUTER SALES &/OR SERVICE.	Zoffary Enterprises Pty. Ltd., Parramatta Rd., Burwood. 2134	19630	1986	Road Match	0m
	DATA PROCESSING EQUIPMENT MFRS. &/OR DISTS. &/ OR HIRERS.	Zoffary Enterprises Pty. Ltd., Parramatta Rd., Burwood. 2134	21369	1986	Road Match	0m
	MOTOR CAR &/OR TRUCK DEALERS-NEW &/OR USED.	Still. C., 354 Parramatta Rd. Burwood. 2134	48519	1978	Road Match	0m
	CAFES, COFFEE LOUNGES, Etc. (C030)	Capri Espresso & Milk Bar., 346 Parramatta Rd., Burwood	275429	1970	Road Match	0m
	CAFES, COFFEE LOUNGES, Etc. (C030)	CapriEspresso & Milk Bar., 346 Parramatta Rd., Burwood	275430	1970	Road Match	0m
	MOTOR SERVICE STATIONS-PETROL,OIL,Etc.	Ezi Drive Service Station., 350 Parramatta Rd., BURWOOD	341109	1970	Road Match	0m
	HAIRDRESSERS (GENT.'S) (H070)	Gibbons, R. A., 27 Parramatta Rd., Concord	313921	1970	Road Match	0m
	CLUBS & SPORTING BODIES (C487)	Kia-Ora Sports Club., 23 Parramatta Rd., Concord	284332	1970	Road Match	0m
	DELICATESSENS (D080)	Peckover & Newell., 27a Parramatta Rd., Concord	287814	1970	Road Match	0m
	REAL ESTATE AGENTS/VALUERS(R205)	White, S. L., 23 Parramatta Rd., CONCORD	356223	1970	Road Match	0m
	Cafes, Tea Rooms, Coffee Lounges, Etc.	Cafe The, Green, K. F., 284 Parramatta Rd., Burwood	60181	1965	Road Match	0m
	Cafes, Tea Rooms, Coffee Lounges, Etc.	Capri Espresso & Milk Bar, 346 Parramatta Rd., Burwood	60197	1965	Road Match	0m
	Motor Service Stations - Petrol, Oil, Etc.	Ezi Drive Service Station, 350 Parramatta Rd. Burwood	125520	1965	Road Match	0m
	Hairdressers (Gent.'s)/Tobacconists	Gibbons, R. A., 27 Parramatta Rd., Concord	98030	1965	Road Match	0m
	Clubs & Sporting Bodies	Kia-Ora Sports Club, 23 Parramatta Rd., Concord	69008	1965	Road Match	0m
	Baths - Turkish	Kia-ora Turkish Baths & Massage., 23 Parramatta Rd., Concord	49998	1965	Road Match	0m
	DELICATESSENS	Peckover & Newell, 27a Parramatta Rd., Concord	72572	1965	Road Match	0m
	Metallurgists	Pyrox Ltd., Parramatta Rd., Burwood	114712	1965	Road Match	0m
	DELICATESSENS	Abrahams, L. M., 27a Parramatta Rd., Concord	294526	1961	Road Match	0m
	CAFES, TEA ROOMS, COFFEE LOUNGES, Etc.	Cafe The, Green, K. F., 284 Parramatta Rd., Burwood	282050	1961	Road Match	0m
	MILK, FRUIT JUICE BARS/CONFECTIONERS	Caponas "Capri" Milk Bar, 346 Parramatta Rd., Burwood	338937	1961	Road Match	0m
	HAIRDRESSERS (GENT.'S) /TOBACCONISTS	Gibbons, R. A., 27 Parramatta Rd., Concord	322054	1961	Road Match	0m
	BATHS-TURKISH	Kia-ora Turkish Baths & Massage, 23 Parramatta Rd., Concord	271808	1961	Road Match	0m
	CLUBS & SPORTS BODIES	Kla-Ora Sports Club, 23 Parramatta Rd., Concord	291567	1961	Road Match	0m
	DELICATESSENS	Peckover & Newelt, 27a Parramatta Rd., Concord	295143	1961	Road Match	0m
	RADIO &/OR TELEVISION SALES & SERVICEMEN	Ray's Radio, 27b Parramatta Rd. CONCORD	364129	1961	Road Match	0m

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
59	MUSIC—SHEET, GRAMOPHONE RECORDS—DEALERS	Ray's Radio, 27b Parramatta Rd., Concord	352906	1961	Road Match	0m
	ELECTRICAL SUPPLIES/APPLIANCES RETAILERS	Rays Radios, 27b Parramatta Rd., Concord	303357	1961	Road Match	0m
	HALLS	"Belhaben", Parramatta Rd., Burwood	60285	1950	Road Match	0m
	BANKS	English, Scottish & Australian Bank Ltd, 25 Parramatta Rd., Concord	5976	1950	Road Match	0m
	HAIRDRESSERS (GENT.'S) &/OR TOBACCONISTS	Gibbons, R. A, 27 Parramatta Rd., Concord	59476	1950	Road Match	0m
	CLUBS & SPORTS BODIES	Kia-Ora Sports Club, 23 Parramatta Rd., Concord	25354	1950	Road Match	0m
60	Motor Exhaust Systems &/or Mufflers Mfrs &/or Dists &/or Fitters	Midas Australia Pty Ltd Loftus St Concord 2137	96665	1991	Road Match	0m
	Motor Brake Specialists	Midas Australia Pty Ltd, Loftus St., Concord 2137	52291	1991	Road Match	0m
61	MOTOR GARAGES & SERVICE STATIONS.	Amoco Concord Service Station, 16 Burwood Rd., Concord. 2137	63887	1986	Road Match	0m
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. (M6860)	Amoco Concord Service Station, 16 Burwood Rd., Concord. 2137.	55962	1982	Road Match	0m
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Amoco Service Station, Burwood Rd., Concord. 2137	49244	1978	Road Match	0m
	TIMBER IMPORTERS &/OR DISTS.	Tanmid (Imports) Pty. Ltd, 168 Burwood Rd, Concord.2137	70822	1978	Road Match	0m
	TIMBER MERCHANTS.	Tanner Middleton Pty. Ltd, 168 Burwood Rd, Concord.2137	70994	1978	Road Match	0m
	BUILDERS SUPPLIERS.	Tanner Middleton Pty. Ltd., 168 Burwood Rd., Concord. 2137	8347	1978	Road Match	0m
	DOOR MFRS. &/OR DISTS. &/OR INSTALLERS.	Tanner Middleton Pty. Ltd., 168 Burwood Rd., Concord. 2137	19434	1978	Road Match	0m
	JOINERY MANUFACTURERS.	Tanner Middleton Pty. Ltd., 168 Burwood Rd., Concord. 2137	39203	1978	Road Match	0m
	PLYWOOD MFRS. &/OR MERCHANTS &/OR DISTS.	Tanner Middleton Pty. Ltd., 168 Burwood Rd., Concord. 2137	58460	1978	Road Match	0m
	MOTOR SERVICE STATIONS - PETROL, OIL	Amoco Service Station., Burwood Rd., Concord. 2137	61367	1975	Road Match	0m
	MOTOR SERVICE STATIONS - PETROL, OIL	Concord Auto Port., Burwood Rd., Concord. 2137	61649	1975	Road Match	0m
	COPPERSMITHS (C668)	Crane Copper & Aluminium Pty. Ltd., Burwood Rd., Concord	285820	1970	Road Match	0m
	ROOFING MATERIAL MFRS. &/OR DISTRIBUTORS (R415)	Crane Products Pty. Ltd., Burwood Rd., Concord.	357856	1970	Road Match	0m
	Aluminium Manufacturers - Sheets, Strips, Etc.	Crane Copper & Aluminium Pty. Ltd., Burwood Rd., Concord	45974	1965	Road Match	0m
	Brass Fittings & Brassware Mfrs.	Crane Copper & Aluminium Pty. Ltd., Burwood Rd., Concord	54079	1965	Road Match	0m
	Brass Sheets, Rods, Wire - Mfrs. &/or Dists.	Crane Copper & Aluminium Pty. Ltd., Burwood Rd., Concord	54114	1965	Road Match	0m
	Copper Sheet Mfrs.	Crane Copper & Aluminium Pty. Ltd., Burwood Rd., Concord	70531	1965	Road Match	0m
	Coppersmiths	Crane Copper & Aluminium Pty. Ltd., Burwood Rd., Concord	70549	1965	Road Match	0m
	Roofing Material Mfrs. &/or Distributors	Crane Copper & Aluminium Pty. Ltd., Burwood Rd., Concord	141145	1965	Road Match	0m
	ALUMINIUM MANUFACTURERS-SHEETS, STRIPS, Etc.	Crane Copper & Aluminium Pty. Ltd., Burwood Rd., Concord	267619	1961	Road Match	0m
	COPPER SHEET MFRS.	Crane Copper & Aluminium Pty. Ltd., Burwood Rd., Concord	293163	1961	Road Match	0m
	COPPERSMITHS	Crane Copper & Aluminium Pty. Ltd., Burwood Rd., Concord	293190	1961	Road Match	0m
	FOUNDERS-NON-FERROUS	Crane, G. E. and Sons Pty. Ltd., Burwood Rd., Concord	47818	1950	Road Match	0m

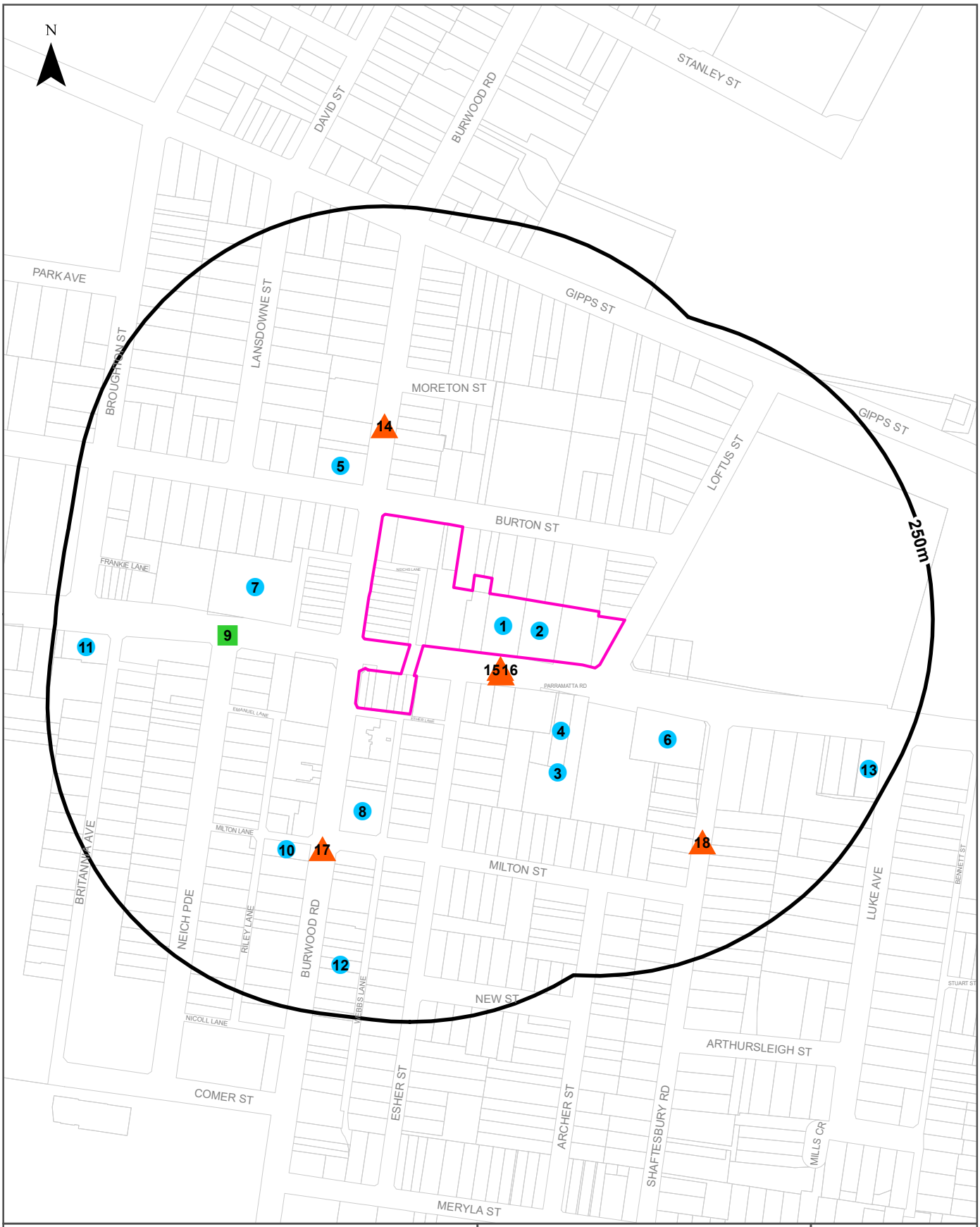
Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
61	TAXIS	Hutson, J. V., Burwood Rd., Concord East	107385	1950	Road Match	0m
	TIMBER IMPORTERS &/OR DISTRIBUTORS	Tanner, Middleton Pty. Ltd., Burwood Rd., Concord	108470	1950	Road Match	0m
62	DATA PROCESSING SYSTEMS &/OR EQUIPMENT.	Zofarry Enterprise Pty. Ltd., Burwood Rd., Burwood North. 2134	21491	1986	Road Match	0m
	COMPUTER SALES &/OR SERVICE.	Zoffary Enterprise Pty. Ltd., Burwood Rd., Burwood North. 2134	19629	1986	Road Match	0m
	PLUMBERS, GASFITTERS &/OR DRAINLAYERS. (P6680)	Greening, E. C. & Son, Burwood Rd., Burwood. 2134.	65159	1982	Road Match	0m
	FLORISTS-RETAIL.	All Night Florist, Burwood Rd., Burwood. 2134	28416	1978	Road Match	0m
	DRESS SHOPS & ACCESSORIES.	Best & Less Pty. Ltd., Burwood Rd., Burwood. 2134	19925	1978	Road Match	0m
	DEPARTMENTAL STORES.	Farmers. Burwood Rd., Burwood. 2134	18653	1978	Road Match	0m
	PLUMBERS, GASFITTERS &/OR DRAINLAYERS.	Greening, E. C. & Son, Burwood Rd., Burwood. 2134	58153	1978	Road Match	0m
	HOTELS-LICENSED.	Royal Sheaf Hotel, Burwood Rd., Burwood. 2134	36369	1978	Road Match	0m
	MOTOR PANEL BEATERS.	Auto Trim Pty. Ltd., Burwood Rd., Burwood. 2134	60588	1975	Road Match	0m
	MOTOR TRIMMERS.	Auto Trim Pty. Ltd., Burwood Rd., Burwood. 2134	62785	1975	Road Match	0m
	BUTCHERS - WHOLESALE	City Wholesale Meat Co. Pty. Ltd., Burwood Rd., Burwood. 2134	11512	1975	Road Match	0m
	MOTOR CAR &/OR TRUCK DEALERS- NEW &/OR USED.	Lintott. Ray Motors., 406 Burwood Rd., Burwood. 2134.	57263	1975	Road Match	0m
	MOTOR SERVICE STATIONS-PETROL,OIL,Etc.	Amoco Service Station., Burwood Rd., BURWOOD	340753	1970	Road Match	0m
	CANNERS & CANNED FOOD SPECIALISTS (C066)	Central Hills Food., Burwood Rd., Burwood	277098	1970	Road Match	0m
	COPPER MFRS.-TUBING (C653)	Crane Enfield Metals Pty. Ltd., Burwood Rd., Burwood	285802	1970	Road Match	0m
	SCHOOLS/COLLEGES-COMMERCIAL(S137)	Stenotype Business College, Burwood Rd., Burwood	359564	1970	Road Match	0m
	Motor Service Stations - Petrol, Oil, Etc.	Amoco Service Station, Burwood Rd. Burwood	125513	1965	Road Match	0m
	Canners & Canned Food Specialists	Central Hills Food., Burwood Rd., Burwood	61808	1965	Road Match	0m
	Copper Mfrs. - Tubing	Crane Enfield Metals Pty. Ltd., Burwood Rd., Burwood	70526	1965	Road Match	0m
	TYRE/TUBE DEALERS	Burwood Park Service Station, 352 Burwood Rd., Burwood	260185	1961	Road Match	0m
	CANNERS & CANNED FOOD SPECIALISTS	Central Hills Food, Burwood Rd., Burwood	283545	1961	Road Match	0m
	NEWSPAPERS & PERIODICALS	“Courier” (The), Burwood Rd., Burwood	88554	1950	Road Match	0m
	FLORISTS-RETAIL	“Gardenia” Florist, Burwood Rd., Burwood	45706	1950	Road Match	0m
	BLOUSE SPECIALISTS	Austral Lingerie Co. 356 Burwood Rd	8555	1950	Road Match	0m
	BANKS	Bank of N.S.W, Burwood Rd, Burwood	5723	1950	Road Match	0m
	SPORTS GOODS RETAILERS	Bolger, Fred., Burwood Rd., Burwood	104389	1950	Road Match	0m
	PICTURE THEATRES-SUBURBAN	Burwood Astor, Burwood Rd., Burwood	92759	1950	Road Match	0m
	CHEMISTS-PHARMACEUTICAL	Burwood D.F.S. Dispensary, Burwood Rd., Burwood	21367	1950	Road Match	0m
	FRUITERERS & GREENGROCERS	Chong, J. F., Burwood Rd., Burwood	49806	1950	Road Match	0m
	FURNITURE-HOUSEHOLD-RETAILERS	Economic Mutual Bargain Store, Burwood Rd., Burwood	53460	1950	Road Match	0m
	DENTISTS	Hogue, S. J., Burwood Rd., Burwood	31988	1950	Road Match	0m
	GROCERS-RETAIL	Lakin, E. L. Pty. Ltd., Bur wood Rd., Burwood	58019	1950	Road Match	0m

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
62	FURNITURE-HOUSEHOLD-RETAILERS	Lyons, A. R., Burwood Rd., Burwood	53573	1950	Road Match	0m
	MILLINERY-RETAIL	O'Malley, Miss., Burwood Rd., Burwood	78898	1950	Road Match	0m
	CLOTHING MANUFACTURERS &/OR WHOLESALERS-LADIES' DRESSES & GOWNS	Regency Mfg. Co., 453 Burwood Rd., Burwood	23506	1950	Road Match	0m
	CLOTHING MFRS. &/OR WHOLESALERS LADIES' MANTLES	Regency Mfg. Co., 453 Burwood Rd., Burwood	23985	1950	Road Match	0m
	ELECTRICAL SUPPLIES &. APPLIANCES RETAILERS	Smith, A. C., Burwood Rd., Burwood	38864	1950	Road Match	0m
	BUTCHERS-RETAIL	Sydney Meat Co., Burwood Rd., Burwood	14393	1950	Road Match	0m
	LEATHER GOODS RETAILERS	Triggs, J., Burwood Rd., Burwood	68386	1950	Road Match	0m
	BUTCHERS-RETAIL	Western Meat Co., Burwood Rd., Burwood	14506	1950	Road Match	0m
	BABY & CHILDREN'S WEAR-RETAIL	Yelds, Mrs. D. H., Burwood Rd., Burwood	4913	1950	Road Match	0m
63	VETERINARY SURGEONS & HOSPITALS	Baxter, J., Burton St., Concord.	111934	1950	Road Match	0m

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Dry Cleaners, Motor Garages & Service Stations

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134



Legend

- Site Boundary
- Buffer 250m
- Property Boundary
- Business directory records mapped to a specific premise
- Business directory records mapped to a road intersection
- Business directory records mapped to a road corridor
- Business directory records mapped to a general area

Scale: 0 60 120 180 240 Meters

Coordinate System: GDA 1994 MGA Zone 56

Date: 04 February 2022

Data Sources: Reproduced with permission of UBD and Hardie Grant Media Pty Ltd DD 01/08/2018
Property Boundaries © NSW Department Finance, Services & Innovation 2022

Historical Business Directories

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134

Dry Cleaners, Motor Garages & Service Stations 1948-1993 Premise or Road Intersection Matches

Dry Cleaners, Motor Garages & Service Stations from UBD Business Directories, mapped to a premise or road intersection, within the dataset buffer.

Note: The Universal Business Directories were published between 1948 and 1993. Dry Cleaners, Motor Garages & Service Stations have been extracted from all of these directories except the following years 1951, 1955, 1957, 1960, 1963, 1973, 1974, 1977, 1987.

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
1	MOTOR GARAGES &/OR ENGINEERS.	Askew & Arnold Pty. Ltd., 11 Parramatta Rd Concord	7845	1972	Premise Match	0m	On-site
	MOTOR GARAGES &/OR ENGINEERS.	Askew & Arnold Pty. Ltd., 11 Parramatta Rd Concord	56534	1971	Premise Match	0m	On-site
	MOTOR GARAGES & ENGINEERS(M6S6)	Askew & Arnold Pty. Ltd., 11 Parramatta Rd., CONCORD	337217	1970	Premise Match	0m	On-site
	MOTOR GARAGES & ENGINEERS.	Askew & Arnold Pty. Ltd., 11 Parramatta Rd Concord	41937	1969	Premise Match	0m	On-site
	MOTOR GARAGES & ENGINEERS	Askew & Arnold Pty. Ltd., 11 Parramatta Rd Concord	21284	1968	Premise Match	0m	On-site
	MOTOR GARAGES & ENGINEERS.	Askew & Arnold Pty. Ltd., 11 Parramatta Rd Concord	6938	1967	Premise Match	0m	On-site
	MOTOR GARAGES & ENGINEERS.	Askew & Arnold Pty. Ltd., 11-13 Parramatta Rd Concord	55893	1966	Premise Match	0m	On-site
	Motor Garages & Engineers	Askew & Arnold Pty. Ltd., 11-13 Parramatta Rd. Concord	122445	1965	Premise Match	0m	On-site
	MOTOR GARAGES & ENGINEERS	Askew & Arnold Pty Ltd., 11-13 Parramatta Rd., Concord	43648	1964	Premise Match	0m	On-site
	MOTOR GARAGES & ENGINEERS.	Askew & Arnold Pty. Ltd., 11-13 Parramatta Rd Concord	29177	1962	Premise Match	0m	On-site
	MOTOR GARAGES & ENGINEERS	Askew & Arnold Pty. Ltd., 11-13 Parramatta Rd. CONCORD	346532	1961	Premise Match	0m	On-site
	MOTOR GARAGES & ENGINEERS	Askew & Arnold Pty Ltd., 11-13 Parramatta Rd Concord	13871	1959	Premise Match	0m	On-site
	MOTOR GARAGE/ENGINEERS.	Askew & Arnold Pty. Ltd., 11-13 Parramatta Rd Concord	552	1958	Premise Match	0m	On-site
	MOTOR GARAGES &/OR ENGINEERS.	Askew & Arnold Pty. Ltd., 11-13 Parramatta Rd Concord	57175	1956	Premise Match	0m	On-site
	MOTOR GARAGES &/OR ENGINEERS.	Askew & Arnold Pty. Ltd., 11-13 Parramatta Rd Concord	44745	1954	Premise Match	0m	On-site
	MOTOR GARAGES &/OR ENGINEERS.	Askew St Arnold Pty. Ltd., 11-13 Parramatta Rd Concord	36537	1953	Premise Match	0m	On-site
	MOTOR GARAGES &/OR ENGINEERS.	Askew & Arnold Pty Ltd., 11-13 Parramatta Rd Concord	27457	1952	Premise Match	0m	On-site
	MOTOR GARAGES &/OR ENGINEERS	Askew and Arnold Pty, Ltd., 11-13 Parramatta Rd., Concord	83388	1950	Premise Match	0m	On-site
	MOTOR SERVICE STATIONS-PETROL, Etc.	Askew and Arnold Pty. Ltd., 11-13 Parramatta Rd., Concord	85756	1950	Premise Match	0m	On-site
	MOTOR GARAGES &/OR ENGINEERS.	Askew And Arnold Pty. Ltd., 11-13 Parramatta Rd Concord	17722	1948-49	Premise Match	0m	On-site
	MOTOR SERVICE STATIONS-PETROL, ETC.	Askew And Arnold Pty. Ltd., 11-13 Parramatta Rd Concord	23099	1948-49	Premise Match	0m	On-site
2	MOTOR GARAGES & ENGINEERS.	Swaile G., 9 Parramatta Rd Concord	29192	1962	Premise Match	0m	On-site
	MOTOR GARAGES & ENGINEERS	Swalle, G., 9 Parramatta Rd., Concord	348249	1961	Premise Match	0m	On-site

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
2	MOTOR GARAGES & ENGINEERS	Swalfe G., 9 Parramatta Rd Concord	13884	1959	Premise Match	0m	On-site
	MOTOR GARAGE/ENGINEERS.	Swaile G., 9 Parramatta Rd Concord	5057	1958	Premise Match	0m	On-site
	MOTOR GARAGES &/OR ENGINEERS.	Swaile G., 9 Parramatta Rd Concord	61550	1956	Premise Match	0m	On-site
	MOTOR GARAGES &/OR ENGINEERS.	Swaile G., 9 Parramatta Rd Concord	54188	1954	Premise Match	0m	On-site
	MOTOR GARAGES &/OR ENGINEERS.	Swaile G., 9 Parramatta Rd Concord	40758	1953	Premise Match	0m	On-site
	MOTOR GARAGES &/OR ENGINEERS.	Swaile G., 9 Parramatta Rd Concord	32309	1952	Premise Match	0m	On-site
	MOTOR GARAGES &/OR ENGINEERS	Swaile, G., 9 Parramatta Rd., Concord	84447	1950	Premise Match	0m	On-site
3	Motor Garages & Service Stations	Burwood Auto Repairs Pty. Ltd., 316 Parramatta Rd., Burwood 2134	97612	1991	Premise Match	24m	South East
	MOTOR GARAGES & SERVICE STATIONS.	Burwood Auto Repairs Pty. Ltd, 316 Parramatta Rd., Burwood. 2134	11253	1990	Premise Match	24m	South East
	MOTOR GARAGE & SERVICE STATIONS.	Burwood Auto Repairs Pty. Ltd., 316 Parramatta Rd., Burwood. 2134	64691	1989	Premise Match	24m	South East
	MOTOR GARAGES & SERVICE STATIONS.	Burwood Auto Repairs Pty. Ltd., 316 Parramatta Rd., Burwood. 2134	53816	1988	Premise Match	24m	South East
	MOTOR GARAGES & SERVICE STATIONS.	Burwood Auto Repairs Pty. Ltd., 316 Parramatta Rd., Burwood. 2134	64285	1986	Premise Match	24m	South East
	MOTOR GARAGES & SERVICE STATIONS.	Burwood Auto Repairs Pty. Ltd., 316 Parramatta Rd., Burwood. 2134	39288	1985	Premise Match	24m	South East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Burwood Auto Repairs Pty. Ltd., 316 Parramatta Rd., Burwood. 2134	27899	1984	Premise Match	24m	South East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Burwood Auto Repairs Pty. Ltd., 316 Parramatta Rd., Burwood 2134	14314	1983	Premise Match	24m	South East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. (M6860)	Burwood Auto Repairs Pty, Ltd., 316 Parramatta Rd., Burwood. 2134.	56368	1982	Premise Match	24m	South East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Burwood Auto Repairs Pty. Ltd., 316 Parramatta Rd., Burwood. 2134	64042	1981	Premise Match	24m	South East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Burwood Auto Repairs Pty Ltd., 316 Parramatta Rd., Burwood. 2134	51547	1980	Premise Match	24m	South East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Burwood Auto Repairs Pty. Ltd., 316 Parramatta Rd., Burwood. 2134.	40936	1979	Premise Match	24m	South East
4	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Burwood Auto Repairs Pty. Ltd., 318 Parramatta Rd., Burwood. 2134	49481	1978	Premise Match	25m	South East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Burwood Auto Repairs Pty. Ltd., 318 Parramatta Rd., Burwood 2134	25203	1976	Premise Match	25m	South East
	MOTOR GARAGES &/OR ENGINEERS.	Burwood Auto Repairs Pty. Ltd., 318 Parramatta Rd., Burwood. 2134	58506	1975	Premise Match	25m	South East
	MOTOR GARAGES &/OR ENGINEERS.	Burwood Auto Repairs Pty. Ltd., 318 Parramatta Rd., Burwood 2134	7692	1972	Premise Match	25m	South East
	MOTOR GARAGES &/OR ENGINEERS.	Burwood Auto Repairs., 318 Parramatta Rd Burwood	56446	1971	Premise Match	25m	South East
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Burwood Auto Repairs., 318 Parramatta Rd Burwood	63082	1971	Premise Match	25m	South East
5	MOTOR GARAGES & SERVICE STATIONS.	BP Concord Service Station, 20 Burwood Rd., Concord. 2137	18627	1993	Premise Match	30m	North West

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
5	Motor Garages & Service Stations	BP Concord Service Station, 20 Burwood Rd, Concord 2137	97646	1991	Premise Match	30m	North West
	MOTOR GARAGES & SERVICE STATIONS.	BP Concord Service Station, 20 Burwood Rd., Concord. 2137	6046	1990	Premise Match	30m	North West
	MOTOR GARAGE & SERVICE STATIONS.	BP Concord Service Station, 20 Burwood Rd., Concord. 2137	64555	1989	Premise Match	30m	North West
	MOTOR GARAGES & SERVICE STATIONS.	BP Concord Service Station, 20 Burwood Rd., Concord. 2137	53665	1988	Premise Match	30m	North West
	MOTOR GARAGES & SERVICE STATIONS.	BP Concord, 20 Burwood Rd., Concord. 2137	64126	1986	Premise Match	30m	North West
	MOTOR SERVICE STATIONS-PETROL,OIL,Etc.	Amoco Service Station., Cnr. Burwood Rd. & Burton St., CONCORD	340756	1970	Premise Match	30m	North West
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Amoco Service Station., Cnr Burwood Rd & Burton St Concord	47666	1969	Premise Match	30m	North West
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Amoco Service Station., Cnr Burwood Rd & Burton St Concord	31100	1968	Premise Match	30m	North West
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Amoco Service Station., Cnr Burwood Rd & Burton St Concord	15577	1967	Premise Match	30m	North West
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Amoco Service Station., Cnr Burwood Rd & Burton St Concord	1149	1966	Premise Match	30m	North West
	Motor Service Stations - Petrol, Oil, Etc.	Amoco Service Station, Cnr. Burwood Rd. & Burton St. Concord	125597	1965	Premise Match	30m	North West
6	MOTOR GARAGES & SERVICE STATIONS.	Esso Burwood Service Station, 298 Parramatta Rd., Burwood. 2134	64612	1986	Premise Match	46m	South East
	MOTOR GARAGES & SERVICE STATIONS.	Esso Burwood Service Station, 298 Parramatta Rd., Burwood. 2134	39613	1985	Premise Match	46m	South East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Esso Burwood Service Station, 298 Parramatta Rd., Burwood. 2134	28193	1984	Premise Match	46m	South East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Esso Burwood Service Station., 298 Parramatta Rd., Burwood. 2134	14617	1983	Premise Match	46m	South East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. (M6860)	Esso Burwood Service Station, 298 Parramatta Rd., Burwood. 2134.	56681	1982	Premise Match	46m	South East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Esso Burwood Service Station., 298 Parramatta Rd., Burwood. 2134	3233	1981	Premise Match	46m	South East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Esso Burwood Service Station., 298 Parramatta Rd., Burwood. 2134	52882	1980	Premise Match	46m	South East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Esso Service Station., 298 Parramatta Rd., Burwood. 2134.	41437	1979	Premise Match	46m	South East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Esso Service Station, 298 Parramatta Rd., Burwood. 2134	49976	1978	Premise Match	46m	South East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Esso Service Station., 298 Parramatta Rd., Burwood 2134	29926	1976	Premise Match	46m	South East
	MOTOR GARAGES &/OR ENGINEERS.	Esso Service Station., 298 Parramatta Rd., Burwood. 2134	58816	1975	Premise Match	46m	South East
	MOTOR GARAGES &/OR ENGINEERS.	Esso Service Station., 298 Parramatta Rd Burwood	7694	1972	Premise Match	46m	South East
	MOTOR GARAGES &/OR ENGINEERS.	Esso Service Station., 298 Parramatta Rd Burwood	56448	1971	Premise Match	46m	South East

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
6	MOTOR GARAGES & ENGINEERS(M6S6)	Esso Service Station., 298 Parramatta Rd., BURWOOD	337749	1970	Premise Match	46m	South East
	MOTOR GARAGES & ENGINEERS.	Esso Service Station., 298 Parramatta Rd Burwood	37710	1969	Premise Match	46m	South East
	MOTOR GARAGES & ENGINEERS	Esso Service Station., 298 Parramatta Rd Burwood	21141	1968	Premise Match	46m	South East
	MOTOR GARAGES & ENGINEERS.	Esso Service Station., 298 Parramatta Rd Burwood	6791	1967	Premise Match	46m	South East
	MOTOR GARAGES & ENGINEERS.	Esso Service Station., 298 Parramatta Rd., Burwood	55750	1966	Premise Match	46m	South East
	Motor Service Stations - Petrol, Oil, Etc.	Esso Service Station, 298 Parramatta Rd. Burwood	125519	1965	Premise Match	46m	South East
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Esso Service Station., 298 Parramatta Rd Burwood	51806	1964	Premise Match	46m	South East
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Atlantic Service Station., 298 Parramatta Rd Burwood	37955	1962	Premise Match	46m	South East
	MOTOR SERVICE STATIONS—PETROL, OIL, Etc.	Atlantic Service Station, 298 Parramatta Rd. BURWOOD	350319	1961	Premise Match	46m	South East
	MOTOR SERVICE STATIONS-PETROL,. OIL, ETC.	Bentley T. J. A. & O., 298 Parramatta Rd., Burwood	24025	1959	Premise Match	46m	South East
7	MOTOR GARAGES & ENGINEERS.	Curley S. T., 29 Parramatta Rd Concord	29183	1962	Premise Match	59m	West
	MOTOR GARAGES & ENGINEERS	Curley, S. T., 29 Parramatta Rd. Concord	347000	1961	Premise Match	59m	West
	MOTOR GARAGES & ENGINEERS	Curley S. T., 29 Parramatta Rd Concord	13876	1959	Premise Match	59m	West
	MOTOR GARAGE/ENGINEERS.	Curley S. T. Pty. Ltd., 29 Parramatta Rd Concord	924	1958	Premise Match	59m	West
	MOTOR GARAGE/ENGINEERS.	Eades Auto Service., 29 Parramatta Rd Concord	995	1958	Premise Match	59m	West
	MOTOR GARAGES &/OR ENGINEERS.	Campbell And Eades., 29 Parramatta Rd Concord	57370	1956	Premise Match	59m	West
	MOTOR GARAGES &/OR ENGINEERS.	Eades Auto Service Sation., 29 Parramatta Rd Concord	57583	1956	Premise Match	59m	West
	MOTOR GARAGES &/OR ENGINEERS.	Campbell And Eades., 29 Parramatta Rd Concord	48996	1954	Premise Match	59m	West
	MOTOR GARAGES &/OR ENGINEERS.	Eades Auto Service., 29 Parramatta Rd Concord	49201	1954	Premise Match	59m	West
	MOTOR GARAGES &/OR ENGINEERS.	Campbell And Eades., 29 Parramatta Rd Concord	36709	1953	Premise Match	59m	West
	MOTOR GARAGES &/OR ENGINEERS.	Eades Auto Service., 29 Parramatta Rd Concord	39945	1953	Premise Match	59m	West
	MOTOR GARAGES &/OR ENGINEERS.	Campbell And Eades., 29 Parramatta Rd., Concord	31428	1952	Premise Match	59m	West
	MOTOR GARAGES &/OR ENGINEERS.	Eades Auto Service., 29 Parramatta Rd Concord	31591	1952	Premise Match	59m	West
	MOTOR GARAGES &/OR ENGINEERS.	Eade's Auto Service., 29 Parramatta Rd Concord	27377	1952	Premise Match	59m	West
	MOTOR GARAGES &/OR ENGINEERS	Campbell and Eades, 29 Parramatta Rd., Concord	83538	1950	Premise Match	59m	West
	MOTOR GARAGES &/OR ENGINEERS.	Campbell And Eades., 29 Parramatta Rd Concord	17853	1948-49	Premise Match	59m	West
8	MOTOR GARAGES & SERVICE STATIONS.	Burwood Shore Service Station, 20 Burwood Rd., Burwood. 2134	18722	1993	Premise Match	64m	South West
	Motor Garages & Service Stations	Burwood Shore Service Station, 20 Burwood Rd., Burwood 2134	97601	1991	Premise Match	64m	South West
	MOTOR GARAGES & SERVICE STATIONS.	Burwood Ampol Service Station, 20 Burwood Rd., Burwood. 2134	11251	1990	Premise Match	64m	South West
	MOTOR GARAGE & SERVICE STATIONS.	Burwood Ampol Service Station, 20 Burwood Rd., Burwood. 2134	64689	1989	Premise Match	64m	South West
	MOTOR GARAGES & SERVICE STATIONS.	Burwood Ampol Service Station, 20 Burwood Rd., Burwood. 2134	53814	1988	Premise Match	64m	South West

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
8	MOTOR GARAGES & SERVICE STATIONS.	Burwood Mobil Service Station, 20 Burwood Rd., Burwood. 2134	64286	1986	Premise Match	64m	South West
	MOTOR GARAGES & SERVICE STATIONS.	Burwood Mobil Service Station, 20 Burwood Rd., Burwood. 2134	39289	1985	Premise Match	64m	South West
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Burwood Mobil Service Station, 20 Burwood Rd., Burwood. 2134	27900	1984	Premise Match	64m	South West
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Burwood Mobil Service Station., 20 Burwood Rd., Burwood 2134	14315	1983	Premise Match	64m	South West
	MOTOR GARAGES &/OR ENGINEERS.	Dewerly, R. Motors., 18 Burwood Rd., Burwood. 2134	58757	1975	Premise Match	64m	South West
	MOTOR GARAGES &/OR ENGINEERS.	Myobb Motors., 16-22 Burwood Rd Burwood	7695	1972	Premise Match	64m	South West
	MOTOR GARAGES &/OR ENGINEERS.	Myobb Motors., 16-22 Burwood Rd Burwood	56449	1971	Premise Match	64m	South West
	MOTOR GARAGES & ENGINEERS(M6S6)	Myobb Motors., 16-22 Burwood Rd., BURWOOD	338310	1970	Premise Match	64m	South West
	MOTOR GARAGES & ENGINEERS.	Myobb Motors., 16-22 Burwood Rd Burwood	37711	1969	Premise Match	64m	South West
	MOTOR GARAGES & ENGINEERS	Myobb Motors., 16-22 Burwood Rd Burwood	21142	1968	Premise Match	64m	South West
	MOTOR GARAGES & ENGINEERS.	Myobb Motors., 16-22 Burwood Rd Burwood	6792	1967	Premise Match	64m	South West
	MOTOR GARAGES & ENGINEERS.	Myobb Motors., 16-22 Burwood Rd Burwood	55751	1966	Premise Match	64m	South West
	Motor Garages & Engineers	Myobb Motors, 16-22 Burwood Rd. Burwood	122324	1965	Premise Match	64m	South West
9	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Ezi Drive., Parramatta Rd & Neich Pde Burwood	51807	1964	Road Intersection	110m	West
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Ezi Drive., Parramatta Rd & Neich Pde Burwood	37961	1962	Road Intersection	110m	West
	MOTOR SERVICE STATIONS—PETROL, OIL, Etc.	Ezi Drive, Parramatta Rd & Neich Pde. BURWOOD	350569	1961	Road Intersection	110m	West
	MOTOR SERVICE STATIONS-PETROL,. OIL, ETC.	Ezi Drive., Parramatta Rd. & Neich Pde., Burwood	24027	1959	Road Intersection	110m	West
	MOTOR SERVICE STATIONS-PETROL, ETC.	Ezi-Drive., Parramatta Rd & Neich Pde Burwood	9516	1958	Road Intersection	110m	West
	MOTOR SERVICE STATIONS-PETROL, ETC.	Ezi-Drive., Parramatta Rd & Neich Pde., Burwood	61895	1956	Road Intersection	110m	West
	MOTOR SERVICE STATIONS-PETROL, ETC.	Ezi-Drive., Parramatta Rd & Neich Pde Burwood	54462	1954	Road Intersection	110m	West
	MOTOR SERVICE STATIONS–PETROL, ETC.	Ezi-Drive., Parramatta Rd. & Neich Pde Burwood	44056	1953	Road Intersection	110m	West
	MOTOR SERVICE STATIONS–PETROL, ETC.	Ezi-Drive. (U.O.Nicholas), Parramatta Rd & Neich Pde., Burwood	35828	1952	Road Intersection	110m	West
	MOTOR SERVICE STATIONS-PETROL, Etc.	Ezi-Drive (U. O. Nicholas), Parramatta Rd. and Neich Pde., Burwood	85948	1950	Road Intersection	110m	West
10	MOTOR GARAGE/ENGINEERS.	Alray Motors., 15 Burwood Rd Burwood	525	1958	Premise Match	118m	South West
	MOTOR GARAGES &/OR ENGINEERS.	Alray Motors., 15 Burwood Rd Burwood	57152	1956	Premise Match	118m	South West
	MOTOR SERVICE STATIONS-PETROL, ETC.	W. L. Engineering Co., 15 Burwood Rd. Burwood	65303	1954	Premise Match	118m	South West

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
11	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Britannia Service Station., 376 Parramatta Rd Burwood	63081	1971	Premise Match	204m	West
	MOTOR SERVICE STATIONS-PETROL,OIL,Etc.	Britannia Service Station., 376 Parramatta Rd., BURWOOD	340903	1970	Premise Match	204m	West
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Britannia Service Station., 376 Parramatta Rd Burwood	47581	1969	Premise Match	204m	West
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Britannia Service Station., 376 Parramatta Rd Burwood	31002	1968	Premise Match	204m	West
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Britannia Service Station., 376 Parramatta Rd Burwood	15483	1967	Premise Match	204m	West
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Britannia Service Station., 376 Parramatta Rd Burwood	1060	1966	Premise Match	204m	West
	Motor Service Stations - Petrol, Oil, Etc.	Britannia Service Station, 376 Parramatta Rd. Burwood	125514	1965	Premise Match	204m	West
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Britannia Service Station., 376 Parramatta Rd Burwood	51803	1964	Premise Match	204m	West
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Britannia Service Station., 376 Parramatta Rd Burwood	37956	1962	Premise Match	204m	West
	MOTOR GARAGES & ENGINEERS	Britannia Service Station, 376 Parramatta Rd. BURWOOD	346738	1961	Premise Match	204m	West
	MOTOR SERVICE STATIONS—PETROL, OIL, Etc.	Britannia Service Station, 376 Parramatta Rd. BURWOOD	350404	1961	Premise Match	204m	West
12	MOTOR GARAGES & ENGINEERS(M6S6)	Quinn, Peter Pty. Ltd., 40 Burwood Rd., BURWOOD	338464	1970	Premise Match	204m	South
	Motor Garages & Engineers	Quinn, J. P. Pty. Ltd., 40 Burwood Rd. Burwood	122325	1965	Premise Match	204m	South
13	Motor Garages & Engineers	Carburettor Service Co. Pty. Ltd., 240 Parramatta Rd. Burwood	122323	1965	Premise Match	216m	East
	MOTOR GARAGES & ENGINEERS	Carburetto Service Co. Pty. Ltd., 240 Parramatta Rd Burwood	43521	1964	Premise Match	216m	East
	MOTOR GARAGES & ENGINEERS.	Carburettor Service Co., 240 Parramatta Rd Burwood	29016	1962	Premise Match	216m	East
	MOTOR GARAGES & ENGINEERS	Carburettor Service Co., 240 Parramatta Rd. BURWOOD	346813	1961	Premise Match	216m	East
	MOTOR GARAGES & ENGINEERS	Carburettor Service Co., 240 Parramatta Rd, Burwood	13732	1959	Premise Match	216m	East
	MOTOR GARAGE/ENGINEERS.	Carburettor Service Co., 240 Parramatta Rd Burwood	781	1958	Premise Match	216m	East
	MOTOR GARAGE/ENGINEERS.	Howarth H. O., 240 Parramatta Rd Burwood	4307	1958	Premise Match	216m	East
	MOTOR GARAGES &/OR ENGINEERS.	Carburettor Service Co., 240 Parramatta Rd Burwood	57382	1956	Premise Match	216m	East
	MOTOR GARAGES &/OR ENGINEERS.	Howarth H. O., 240 Parramatta Rd Burwood	57833	1956	Premise Match	216m	East
	MOTOR GARAGES &/OR ENGINEERS.	Carburettor Service Co., 240 Parramatta Rd Burwood	49008	1954	Premise Match	216m	East
	MOTOR GARAGES &/OR ENGINEERS.	Howarth H. O., 240 Parramatta Rd Burwood	49434	1954	Premise Match	216m	East
	MOTOR GARAGES &/OR ENGINEERS.	Carburettor Service Co., 240 Parramatta Rd Burwood	36719	1953	Premise Match	216m	East
	MOTOR GARAGES &/OR ENGINEERS.	Howarth H. O., 240 Parramatta Rd Burwood	40149	1953	Premise Match	216m	East
	MOTOR GARAGES &/OR ENGINEERS.	Carburettor Service Co., 240 Parramatta Rd., Burwood	31435	1952	Premise Match	216m	East
	MOTOR GARAGES &/OR ENGINEERS.	Howarth H. O., 240 Parramatta Rd Burwood	31769	1952	Premise Match	216m	East
	MOTOR GARAGES &/OR ENGINEERS	Carburettor Service Co., 240 Parramatta Rd., Burwood	83545	1950	Premise Match	216m	East

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
13	MOTOR GARAGES &/OR ENGINEERS	Howarth, H. O., 240 Parramatta Rd., Burwood	83891	1950	Premise Match	216m	East
	MOTOR GARAGES &/OR ENGINEERS.	Carburettor Service Co., 240 Parramatta Rd Burwood	17857	1948-49	Premise Match	216m	East
	MOTOR GARAGES &/OR ENGINEERS.	Howarth H. O., 240 Parramatta Rd Burwood	22472	1948-49	Premise Match	216m	East

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Dry Cleaners, Motor Garages & Service Stations 1948-1993 Road or Area Matches

Dry Cleaners, Motor Garages & Service Stations from UBD Business Directories, mapped to a road or an area, within the dataset buffer. Records are mapped to the road when a building number is not supplied, cannot be found, or the road has been renumbered since the directory was published.

Note: The Universal Business Directories were published between 1948 and 1993. Dry Cleaners, Motor Garages & Service Stations have been extracted from all of these directories except the following years 1951, 1955, 1957, 1960, 1963, 1973, 1974, 1977, 1987.

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
14	MOTOR GARAGES & SERVICE STATIONS.	Amoco Concord Service Station, 16 Burwood Rd., Concord. 2137	63887	1986	Road Match	0m
	MOTOR GARAGES & SERVICE STATIONS.	Amoco Concord Service Station, 16 Burwood Rd., Concord. 2137	38904	1985	Road Match	0m
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Amoco Concord Service Station, 16 Burwood Rd., Concord. 2137	22286	1984	Road Match	0m
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Amoco Concord Service Station., 16 Burwood Rd., Concord 2137	8878	1983	Road Match	0m
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. (M6860)	Amoco Concord Service Station, 16 Burwood Rd., Concord. 2137.	55962	1982	Road Match	0m
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Amoco Concord Service Station., 16 Burwood Rd., Concord. 2137	63631	1981	Road Match	0m
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Amoco Concord Service Station., 16 Burwood Rd., Concord. 2137	50104	1980	Road Match	0m
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Amoco Service Station., 16 Burwood Rd., Concord. 2137.	35647	1979	Road Match	0m
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Amoco Service Station, Burwood Rd., Concord. 2137	49244	1978	Road Match	0m
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Amoco Service Station., Burwood Rd., Concord 2137	23946	1976	Road Match	0m
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Concord Auto Port., Burwood Rd., Concord 2137	29757	1976	Road Match	0m
	MOTOR SERVICE STATIONS - PETROL, OIL	Amoco Service Station., Burwood Rd., Concord. 2137	61367	1975	Road Match	0m
	MOTOR SERVICE STATIONS - PETROL, OIL	Concord Auto Port., Burwood Rd., Concord. 2137	61649	1975	Road Match	0m
	MOTOR GARAGES & ENGINEERS.	Concord Auto Port., Burwood Rd Concord	41942	1969	Road Match	0m
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Concord Auto Port., Burwood Rd Concord	15579	1967	Road Match	0m
15	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Cullen, E D. Pty. Ltd., Parramatta Rd., Concord. 2137	49870	1978	Road Match	0m
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Golden Fleece Service Station., Parramatta Rd., Strathfield 2135	30109	1976	Road Match	0m
	MOTOR SERVICE STATIONS - PETROL, OIL	Golden Fleece Service Station., Parramatta Rd., Strathfield. 2135	61787	1975	Road Match	0m
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Brown E. G., Parramatta Rd Strathfield	2613	1971	Road Match	0m
	MOTOR SERVICE STATIONS-PETROL,OIL,Etc.	Brown, E. G., Parramatta Rd., STRATHFIELD	340908	1970	Road Match	0m

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
15	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Brown E. G., Parramatta Rd Strathfield	50783	1969	Road Match	0m
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Brown E. G., Parramatta Rd Strathfield	36865	1968	Road Match	0m
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Brown E. G., Parramatta Rd Strathfield	20332	1967	Road Match	0m
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Brown E. G., Parramatta Rd Strathfield	1836	1966	Road Match	0m
	Motor Service Stations - Petrol, Oil, Etc.	Newton, L. D. Pty. Ltd., Parramatta Rd. Strathfield	126180	1965	Road Match	0m
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Newton L. D. Pty. Ltd., Parramatta Rd Strathfield	52430	1964	Road Match	0m
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Newton L. D. Pty. Ltd., Parramatta Rd Strathfield	38733	1962	Road Match	0m
	MOTOR SERVICE STATIONS—PETROL, OIL, Etc.	Newton, L. D. Pty. Ltd., Parramatta Rd. STRATHFIELD	350906	1961	Road Match	0m
	MOTOR SERVICE STATIONS-PETROL,. OIL, ETC.	Newton L. D. Pty. Ltd., Parramatta Rd Strathfield	24586	1959	Road Match	0m
	MOTOR SERVICE STATIONS-PETROL, ETC.	Newton L. D. Pty. Ltd., Parramatta Rd Strathfield	9723	1958	Road Match	0m
	MOTOR SERVICE STATIONS-PETROL, ETC.	Newton L.D. Pty. Ltd., Parramatta Rd., Strathfield	62071	1956	Road Match	0m
	MOTOR SERVICE STATIONS-PETROL, ETC.	Newton L. D. Pty. Ltd., Parramatta Rd Strathfield	54601	1954	Road Match	0m
	MOTOR GARAGES &/OR ENGINEERS.	Four Ways Garage., Parramatta Rd Concord	31646	1952	Road Match	0m
	MOTOR GARAGES &/OR ENGINEERS	Four Ways Garage, Parramatta Rd., Concord	83761	1950	Road Match	0m
	MOTOR SERVICE STATIONS-PETROL, Etc.	Four Ways Garage, Parramatta Rd., Concord	85969	1950	Road Match	0m
	MOTOR GARAGES &/OR ENGINEERS.	Pierce A. E., Parramatta Rd Concord	22745	1948-49	Road Match	0m
16	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Ezi Drive Service Station., 350 Parramatta Rd Burwood	63086	1971	Road Match	0m
	MOTOR SERVICE STATIONS-PETROL,OIL,Etc.	Ezi Drive Service Station., 350 Parramatta Rd., BURWOOD	341109	1970	Road Match	0m
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Ezi Drive Service Station., 350 Parramatta Rd Burwood	47586	1969	Road Match	0m
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Ezi Drive Service Station., 350 Parramatta Rd Burwood	31007	1968	Road Match	0m
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Ezi Drive Service Station., 350 Parramatta Rd Burwood	15488	1967	Road Match	0m
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Ezi Drive Service Station., 350 Parramatta Rd Burwood	1065	1966	Road Match	0m
	Motor Service Stations - Petrol, Oil, Etc.	Ezi Drive Service Station, 350 Parramatta Rd. Burwood	125520	1965	Road Match	0m
17	MOTOR SERVICE STATIONS-PETROL,OIL,Etc.	Amoco Service Station., Burwood Rd., BURWOOD	340753	1970	Road Match	0m
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Amoco Service Station., Burwood Rd Burwood	47580	1969	Road Match	0m
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Amoco Service Station., Burwood Rd Burwood	31001	1968	Road Match	0m
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Amoco Service Station., Burwood Rd Burwood	15482	1967	Road Match	0m

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
17	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Amoco Service Station., Burwood Rd Burwood	1059	1966	Road Match	0m
	Motor Service Stations - Petrol, Oil, Etc.	Amoco Service Station, Burwood Rd. Burwood	125513	1965	Road Match	0m
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Amoco Service Station., Burwood Rd Burwood	51802	1964	Road Match	0m
18	MOTOR GARAGES & SERVICE STATIONS.	Circle Service Centre, Shaftesbury Rd., Burwood. 2134	11431	1990	Road Match	103m
	MOTOR GARAGE & SERVICE STATIONS.	Circle Service Centre, Shaftesbury Rd., Burwood. 2134	64875	1989	Road Match	103m
	MOTOR GARAGES & SERVICE STATIONS.	Circle Service Centre, Shaftesbury Rd., Burwood. 2134	59079	1988	Road Match	103m
	MOTOR GARAGES & SERVICE STATIONS.	Circle Service Centre, Shaftesbury Rd., Burwood. 2134	64472	1986	Road Match	103m
	MOTOR GARAGES & SERVICE STATIONS.	Circle Service Centre, Shaftesbury Rd., Burwood. 2134	39469	1985	Road Match	103m
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Circle Service Centre, Shaftesbury Rd., Burwood. 2134	28055	1984	Road Match	103m
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Circle Service Centre., Shaftesbury Rd., Burwood 2134	14475	1983	Road Match	103m
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. (M6860)	Circle Service Centre, Shaftesbury Rd., Burwood. 2134	56531	1982	Road Match	103m
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Circle Service Centre., Shaftesbury Rd., Burwood, 2134.	3085	1981	Road Match	103m
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Circle Service Centre., Shaftesbury Rd., Burwood. 2134	52726	1980	Road Match	103m
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Circle Service Centre., Shaftesbury Rd., Burwood. 2134.	41276	1979	Road Match	103m
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Circle Service Centre, Shaftesbury Rd., Burwood. 2134	49806	1978	Road Match	103m
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Circle Service Centre., Shaftesbury Rd., Burwood 2134	29734	1976	Road Match	103m
	MOTOR SERVICE STATIONS - PETROL, OIL	Circle Service Centre., Shaftesbury Rd., Burwood. 2134	61643	1975	Road Match	103m
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Circle Service Centre., Shaftsbury Rd Burwood	16498	1972	Road Match	103m
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Circle Service Centre., Shaftsbury Rd Burwood	63085	1971	Road Match	103m
	MOTOR SERVICE STATIONS-PETROL,OIL,Etc.	Circle Service Centre., Shaftsbury Rd., BURWOOD	340966	1970	Road Match	103m
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Circle Service Centre., Shaftsbury Rd Burwood	47585	1969	Road Match	103m
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Circle Service Centre., Shaftsbury Rd Burwood	31006	1968	Road Match	103m
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Circle Service Centre., Shaftsbury Rd Burwood	15487	1967	Road Match	103m
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Circle Service Centre., Shaftsbury Rd Burwood	1064	1966	Road Match	103m
	Motor Service Stations - Petrol, Oil, Etc.	Circle Service Centre, Shaftsbury Rd. Burwood	125518	1965	Road Match	103m
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Circle Service Centre., Shaftsbury Rd., Burwood	51805	1964	Road Match	103m

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
18	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Circle Service Centre., Shaftsbury Rd Burwood	37960	1962	Road Match	103m
	MOTOR SERVICE STATIONS—PETROL, OIL, Etc.	Circle Service Centre, Shaftsbury Rd. BURWOOD	350469	1961	Road Match	103m

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Aerial Imagery 2021

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134



Aerial Imagery 2016

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134



Aerial Imagery 2011

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134



Aerial Imagery 2005

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134



Data Source Aerial Imagery: © Aerometrex Pty Ltd	Coordinate System: GDA 1994 MGA Zone 56	Date: 04 February 2022

Aerial Imagery 2000

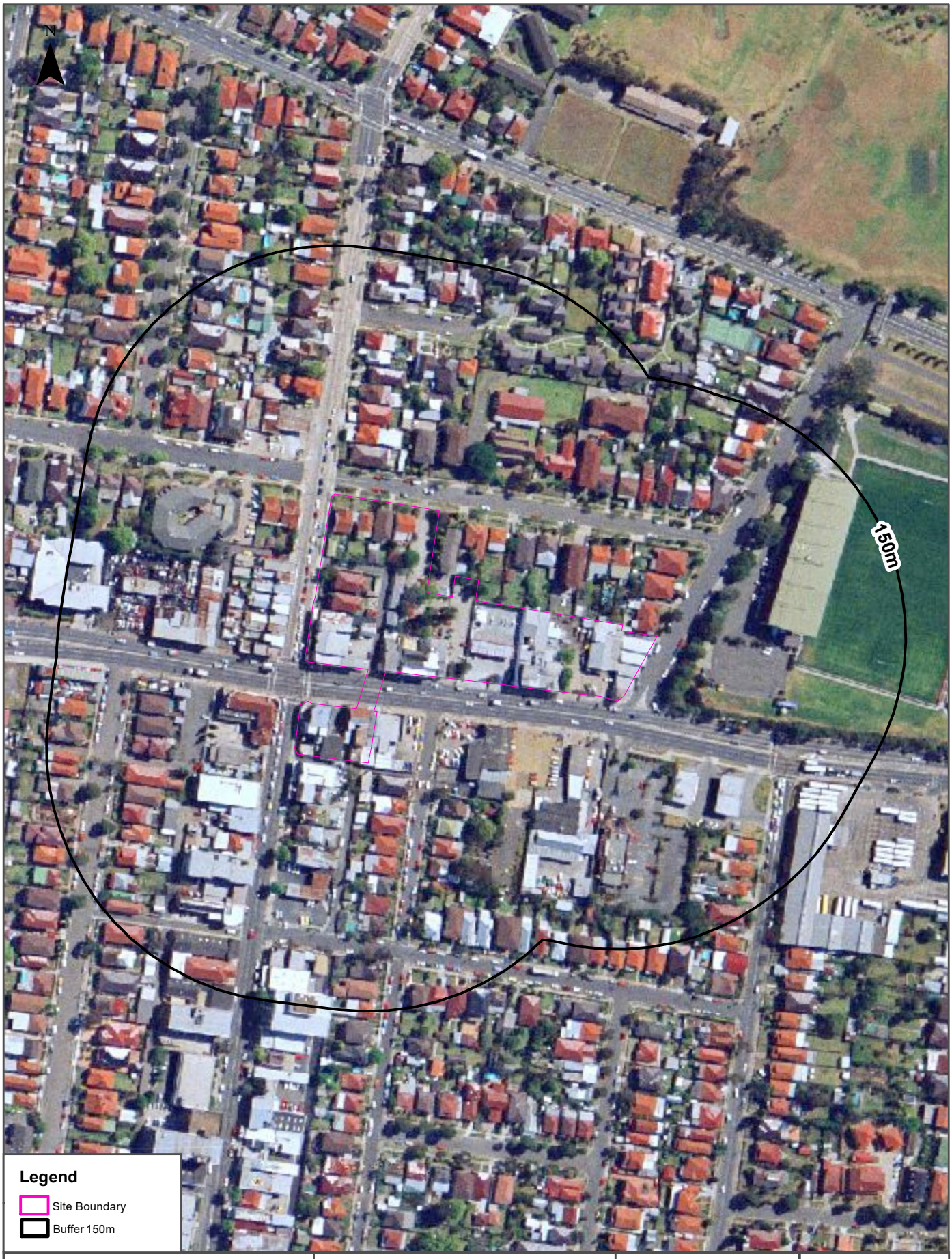
Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134



Scale:	Data Source Aerial Imagery:	Coordinate System:	Date: 04 February 2022
0 30 60 90 120 Meters	© Aerometrex Pty Ltd	GDA 1994 MGA Zone 56	

Aerial Imagery 1994

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134



Aerial Imagery 1991

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134



Scale: 0 30 60 90 120 Meters	Data Sources: Aerial Imagery: © NSW Department of Customer Service	Coordinate System: GDA 1994 MGA Zone 56	Date: 04 February 2022

Aerial Imagery 1986

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134



Aerial Imagery 1982

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134



Aerial Imagery 1978

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134



Scale: 0 30 60 90 120 Meters	Data Source Aerial Imagery: © NSW Department of Customer Service	Coordinate System: GDA 1994 MGA Zone 56	Date: 02 February 2022

Aerial Imagery 1970

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134



Scale: 0 30 60 90 120 Meters	Data Sources: Aerial Imagery: © NSW Department of Customer Service	Coordinate System: GDA 1994 MGA Zone 56	Date: 04 February 2022

Aerial Imagery 1965

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134



Aerial Imagery 1961

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134



Scale: 0 30 60 90 120 Meters	Data Sources: Aerial Imagery: © NSW Department of Customer Service	Coordinate System: GDA 1994 MGA Zone 56	Date: 04 February 2022

Aerial Imagery 1955, 1956

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134



Scale: 0 30 60 90 120 Meters	Data Sources: Aerial Imagery: © NSW Department of Customer Service	Coordinate System: GDA 1994 MGA Zone 56	Date: 04 February 2022

Aerial Imagery 1943

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134



Aerial Imagery 1942

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134



Aerial Imagery 1930

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134



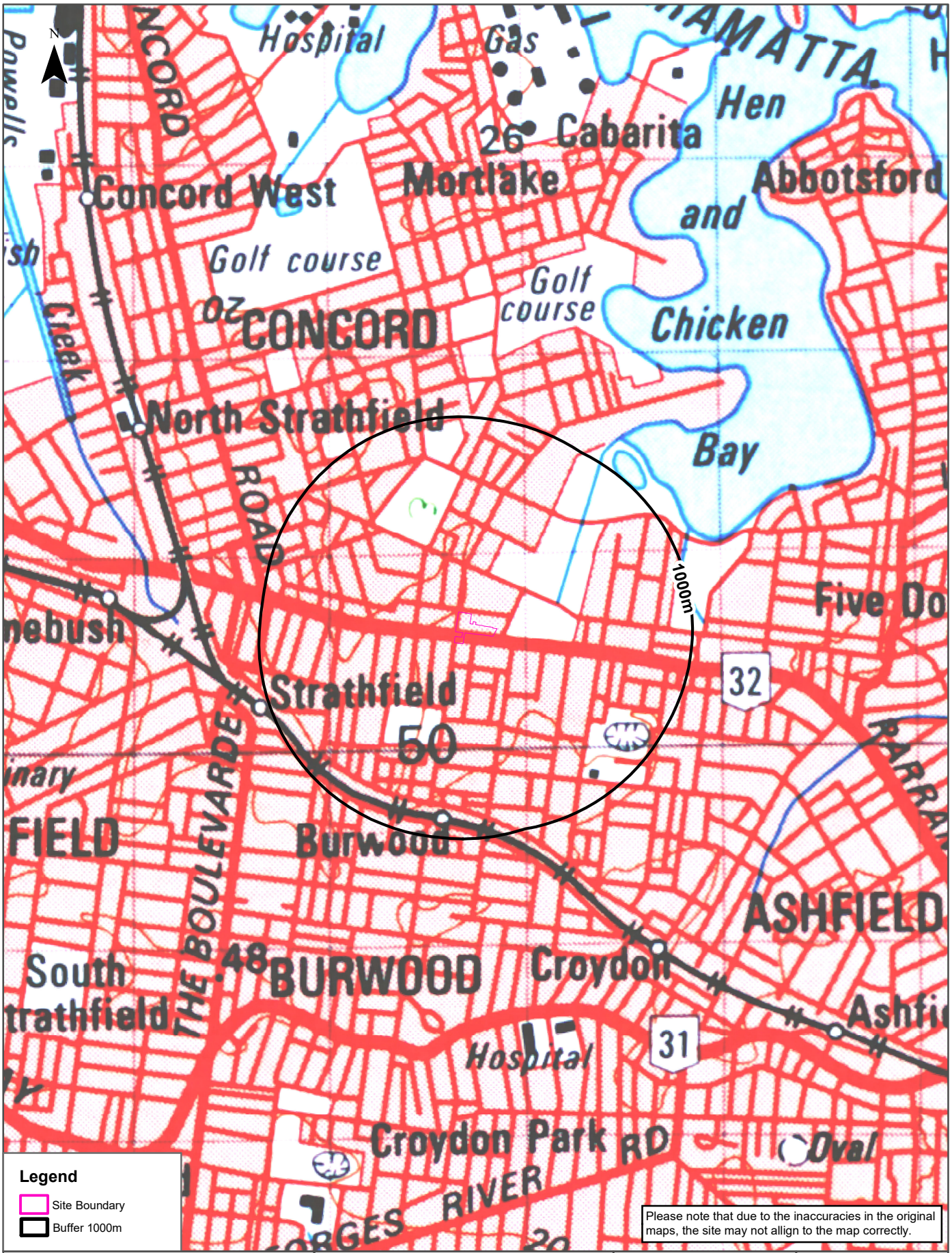
Topographic Map 2015

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134



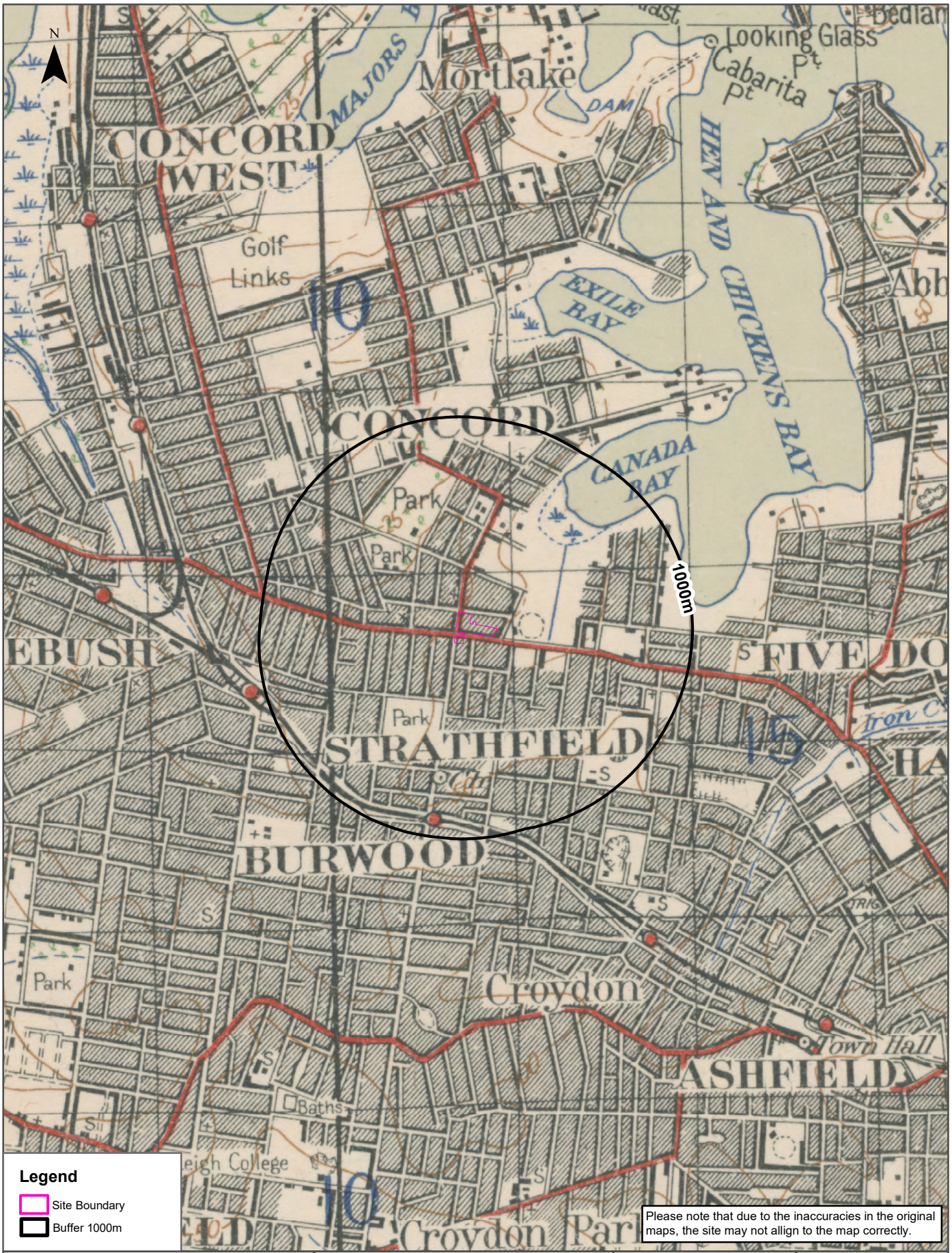
Historical Map 1975

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134



Historical Map c.1936

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134



Scale: 0 310 620 930 1,240 Meters

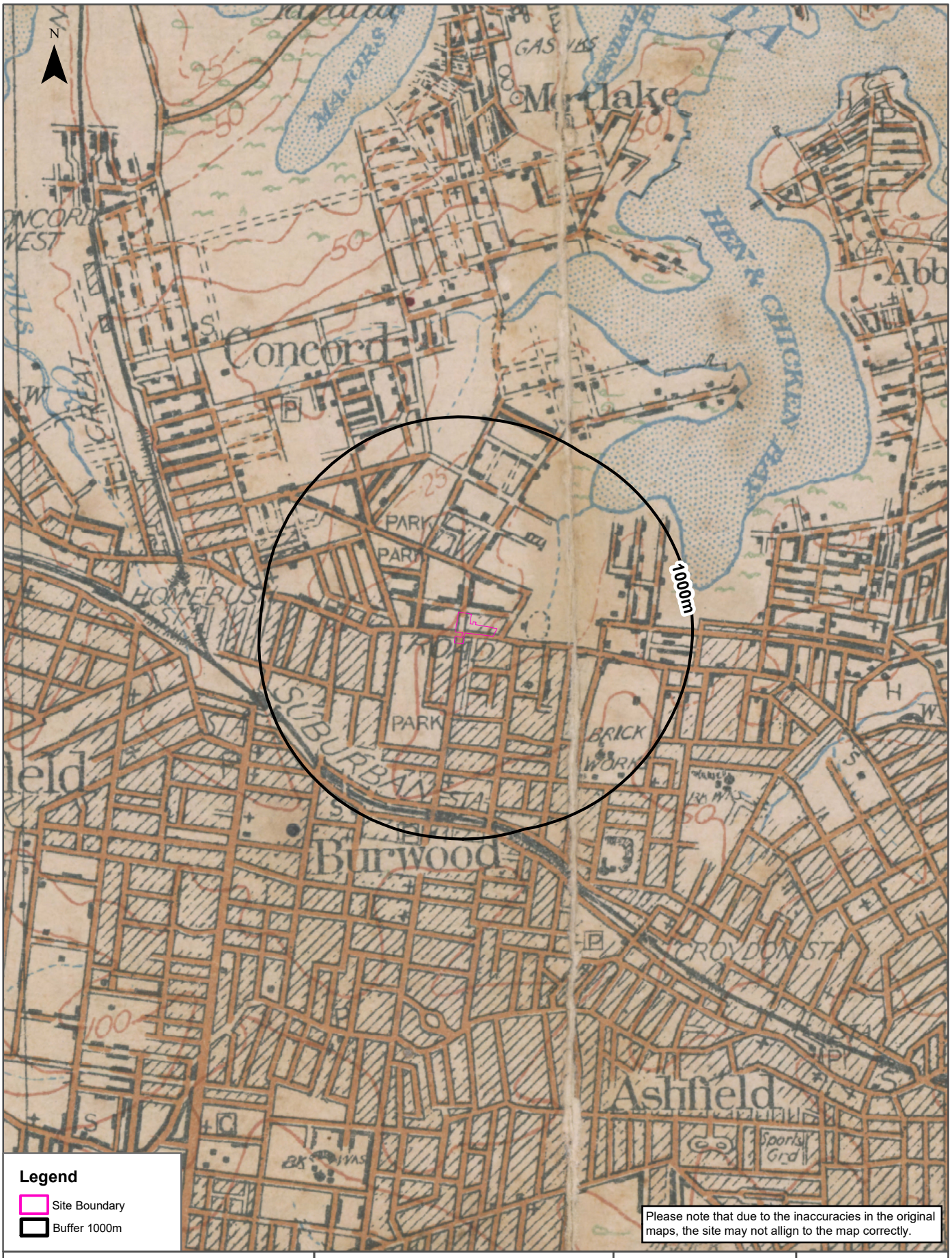
Data Sources: Australia 1:63360
Produced by Australian Section Imperial General Staff

Coordinate System:
GDA 1994 MGA Zone 56

Date: 04 February 2022

Historical Map c.1917

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134



Scale: 0 310 620 930 1,240 Meters

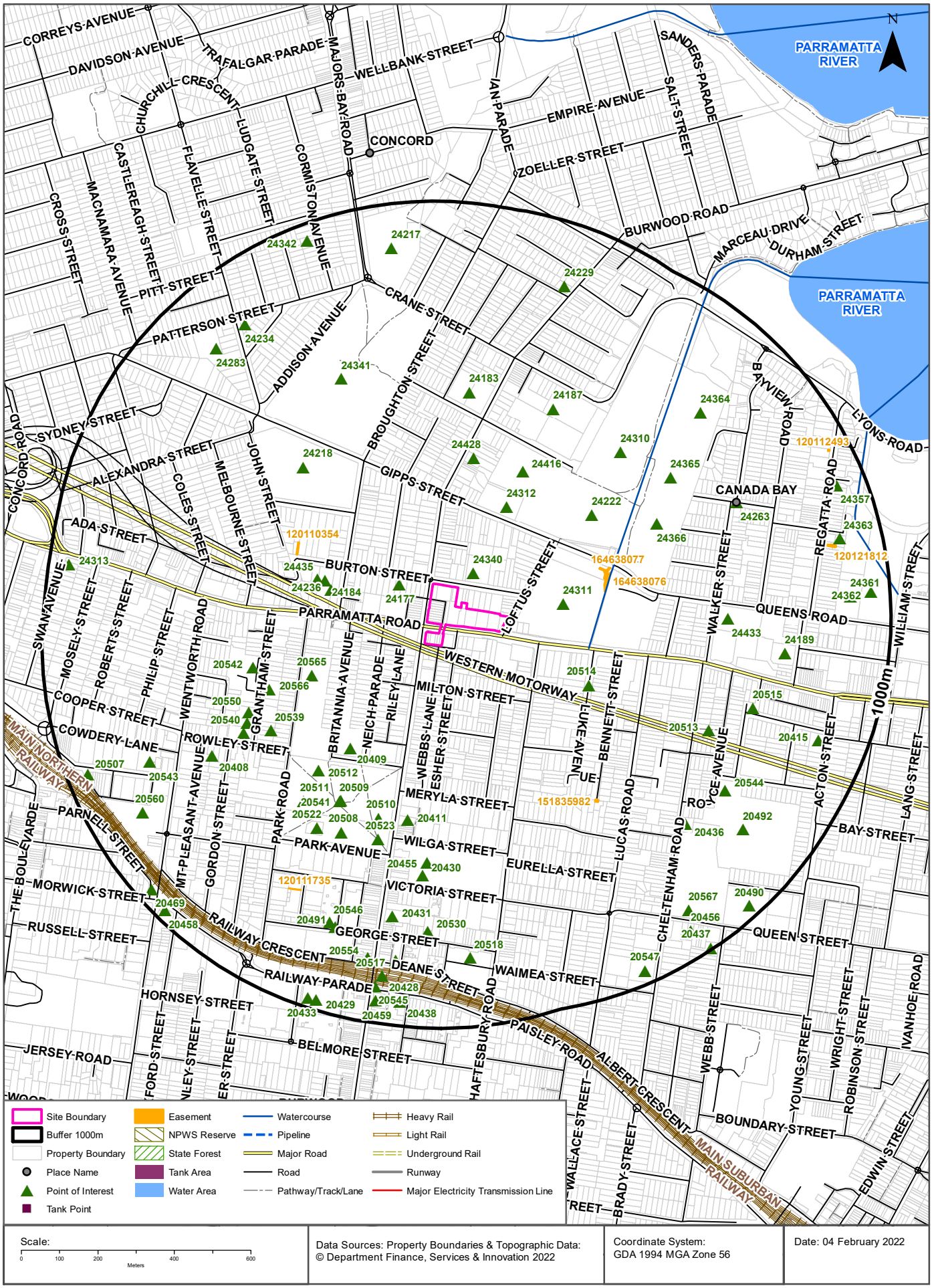
Data Sources: Australia 1:63360
Produced by Australian Section Imperial General Staff

Coordinate System:
GDA 1994 MGA Zone 56

Date: 04 February 2022

Topographic Features

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134



Topographic Features

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134

Points of Interest

What Points of Interest exist within the dataset buffer?

Map Id	Feature Type	Label	Distance	Direction
24340	Place Of Worship	ANGLICAN CHURCH	55m	North
24177	Nursing Home	ST MARYS VILLA RESIDENTIAL AGED CARE	88m	North West
24311	Sports Field	CONCORD OVAL	147m	East
24312	Sports Field	BOWLING GREENS	247m	North East
24236	Community Home	ST MARY'S VILLA NURSING HOME AND HOSTEL	260m	West
20514	Park	LUKE AVENUE RESERVE	271m	South East
24184	Primary School	ST MARY'S PRIMARY SCHOOL	281m	West
24435	Place Of Worship	CATHOLIC CHURCH	300m	West
20565	Primary School	MLC PRIMARY SCHOOL	308m	South West
20409	High School	SOUTHERN CROSS CATHOLIC VOCATIONAL COLLEGE	336m	South West
24428	General Hospital	CONCORD PRIVATE HOSPITAL	340m	North
24222	Park	ST LUKES PARK	344m	North East
24416	Sports Field	CRICKET GROUND	348m	North East
20566	Primary School	MLC MIDDLE SCHOOL	424m	West
20512	Park	BUWOOD PARK DOG OFF LEASH AREA	433m	South West
20542	Psychiatric Hospital	ST JOHN OF GOD PRIVATE HOSPITAL BURWOOD	453m	West
24366	Sports Court	TENNIS COURTS	458m	North East
24218	Park	GODDARD PARK	458m	North West
20539	High School	MLC SCHOOL	461m	South West
20411	Club	CORONATION CLUB	463m	South
20541	Park	BURWOOD PARK	465m	South West
20509	Monument	SANDAKAN MEMORIAL BURWOOD	469m	South West
20510	Monument	MICHAEL TOGNOLINI PEACE GARDEN	472m	South
20550	Community Home	AINSLEY NURSING HOME	494m	South West
24183	Primary School	CONCORD PUBLIC SCHOOL	509m	North
20551	Community Home	LINBURN NURSING HOME	509m	South West
20511	Sports Field	CRICKET PITCH	519m	South West
24310	Sports Field	OVAL	520m	North East
20523	Monument	BURWOOD WAR MEMORIAL ARCH	525m	South
24187	High School	CONCORD HIGH SCHOOL	529m	North East
20540	High School	MLC SCHOOL MUSIC CENTRE	529m	South West

Map Id	Feature Type	Label	Distance	Direction
20508	Park	PLAYGROUND	540m	South West
24365	Sports Court	NETBALL COURTS	558m	North East
20522	Sports Court	TENNIS COURTS	559m	South West
20455	Post Office	BURWOOD NORTH POST OFFICE	569m	South
24433	Special School	LUCAS GARDENS SCHOOL	574m	East
24341	Park	QUEEN ELIZABETH PARK	588m	North West
20430	Shopping Centre	WESTFIELD SHOPPING CENTRE	602m	South
20513	Park	PROWSE RESERVE	602m	South East
20408	High School	MLC SCHOOL ART AND DESIGN CENTRE	629m	South West
24263	Suburb	CANADA BAY	667m	East
20515	Park	KING EDWARD STREET RESERVE	682m	East
20436	SES Facility	BURWOOD SES	699m	South East
20431	Place Of Worship	UNITING CHURCH	717m	South
20544	Park	MONASH RESERVE	721m	South East
24189	SES Facility	CANADA BAY SES	729m	East
24364	Park	CINTRA PARK	732m	North East
20530	Place Of Worship	GOSPEL CHURCH	747m	South
20546	Local Government Chambers	BURWOOD COUNCIL	770m	South
20491	Community Facility	GEORGE STREET COMMUNITY CENTRE	776m	South
20543	General Hospital	STRATHFIELD PRIVATE HOSPITAL	783m	South West
20518	Community Facility	1ST BURWOOD SCOUT HALL	818m	South
20492	Park	WANGAL PARK	819m	South East
20517	Community Facility	BURWOOD PCYC	830m	South
20554	Club	CLUB BURWOOD	834m	South
24229	Place Of Worship	CATHOLIC CHURCH	836m	North
24283	Nursing Home	REDLEAF MANOR AGED CARE	837m	North West
24234	Place Of Worship	SEVENTH DAY ADVENTIST CHURCH	839m	North West
20560	TAFE College	TAFE OPEN TRAINING AND EDUCATION NETWORK	860m	South West
20415	Place Of Worship	CATHOLIC CHURCH	872m	East
20428	Railway Station	BURWOOD RAILWAY STATION	875m	South
20567	High School	BURWOOD GIRLS HIGH SCHOOL	880m	South East
24217	Park	ROTHWELL PARK	884m	North
24363	Park	Park	890m	East
24361	Park	CHARLES HEATH RESERVE	896m	East
20545	Transport Interchange	BURWOOD BUS INTERCHANGE	905m	South
24357	Park	Park	924m	East
20456	Primary School	HOLY INNOCENTS CATHOLIC PRIMARY SCHOOL	929m	South East

Map Id	Feature Type	Label	Distance	Direction
20438	Place Of Worship	ORTHODOX CHURCH	938m	South
20459	Historic Site	FORMER BURWOOD POST OFFICE	942m	South
20507	Park	EVERTON PLACE PARK	945m	South West
24313	Place Of Worship	ANGLICAN CHURCH	947m	West
24362	Sports Centre	FIVE DOCK LEISURE CENTRE	950m	East
24342	Place Of Worship	PRESBYTERIAN CHURCH	957m	North
20469	Park	PARNELL STREET GARDEN	961m	South West
20547	Community Home	ST EZEKIEL MORENO NURSING HOME	965m	South East
20490	Sports Field	Sports Field	970m	South East
20458	Historic Site	BURWOOD SEWER VENT	974m	South West
20429	Shopping Centre	BURWOOD PLAZA	974m	South
20433	Post Office	BURWOOD POST OFFICE	976m	South
20437	Place Of Worship	CATHOLIC CHURCH	995m	South East

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Topographic Features

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134

Tanks (Areas)

What are the Tank Areas located within the dataset buffer?
Note. The large majority of tank features provided by LPI are derived from aerial imagery & are therefore primarily above ground tanks.

Map Id	Tank Type	Status	Name	Feature Currency	Distance	Direction
N/A	No records in buffer					

Tanks (Points)

What are the Tank Points located within the dataset buffer?
Note. The large majority of tank features provided by LPI are derived from aerial imagery & are therefore primarily above ground tanks.

Map Id	Tank Type	Status	Name	Feature Currency	Distance	Direction
N/A	No records in buffer					

Tanks Data Source: © Land and Property Information (2015)
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Major Easements

What Major Easements exist within the dataset buffer?
Note. Easements provided by LPI are not at the detail of local governments. They are limited to major easements such as Right of Carriageway, Electrical Lines (66kVa etc.), Easement to drain water & Significant subterranean pipelines (gas, water etc.).

Map Id	Easement Class	Easement Type	Easement Width	Distance	Direction
164638076	Primary	Water	VAR	260m	East
164638077	Primary	Right of way	4 wide & VAR	268m	East
120110354	Primary	Undefined		363m	North West
151835982	Primary	Right of way	6m	506m	South East
120111735	Primary	Undefined		721m	South West
120121812	Primary	Undefined		845m	East
120112493	Primary	Undefined		941m	North East

Easements Data Source: © Land and Property Information (2015)
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Topographic Features

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134

State Forest

What State Forest exist within the dataset buffer?

State Forest Number	State Forest Name	Distance	Direction
N/A	No records in buffer		

State Forest Data Source: © NSW Department of Finance, Services & Innovation (2018)
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National Parks and Wildlife Service Reserves

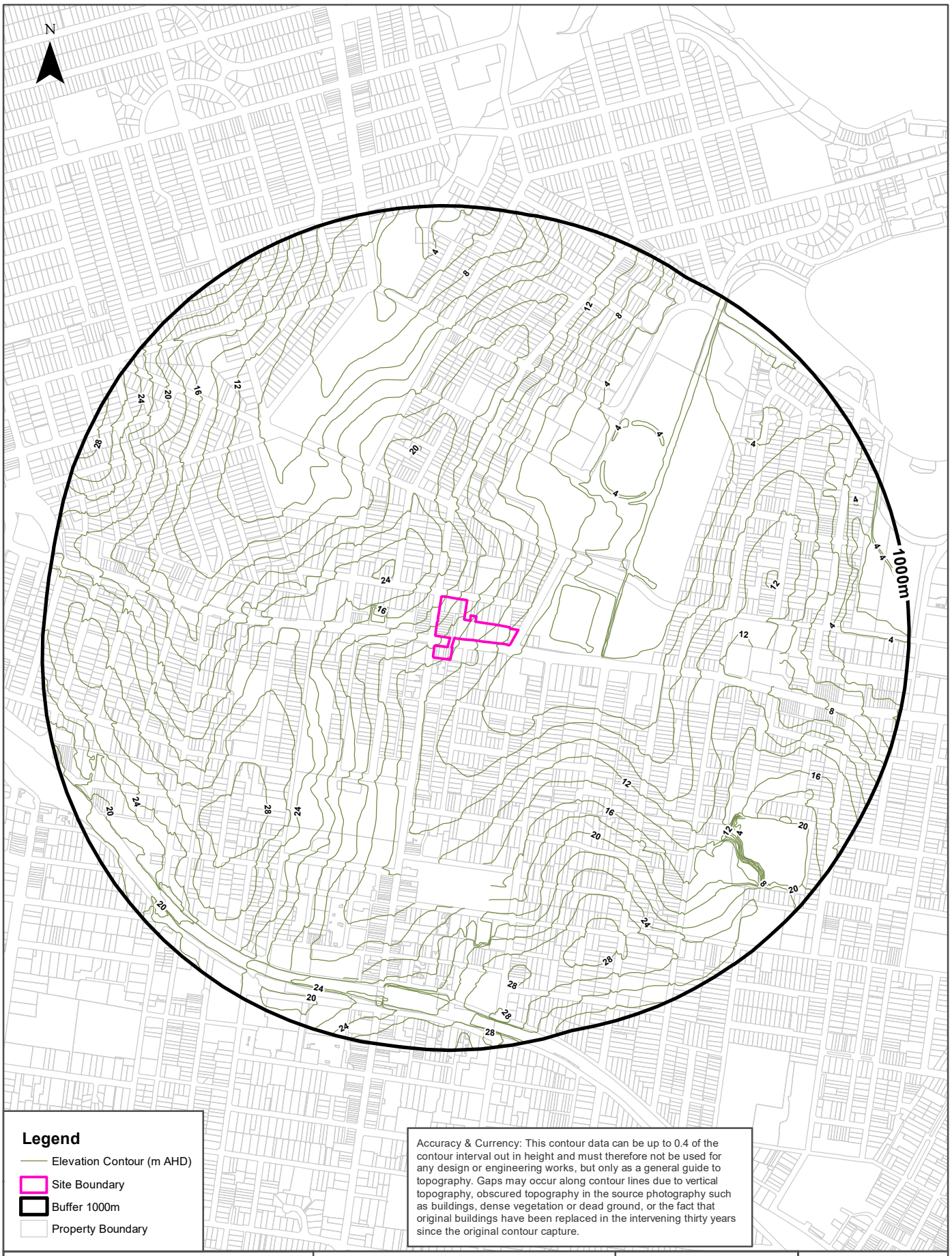
What NPWS Reserves exist within the dataset buffer?

Reserve Number	Reserve Type	Reserve Name	Gazetted Date	Distance	Direction
N/A	No records in buffer				

NPWS Data Source: © NSW Department of Finance, Services & Innovation (2018)
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Elevation Contours (m AHD)

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134



Hydrogeology & Groundwater

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134

Hydrogeology

Description of aquifers within the dataset buffer:

Description	Distance	Direction
Porous, extensive aquifers of low to moderate productivity	0m	On-site

Hydrogeology Map of Australia : Commonwealth of Australia (Geoscience Australia)
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Temporary Water Restriction (Botany Sands Groundwater Source) Order 2018

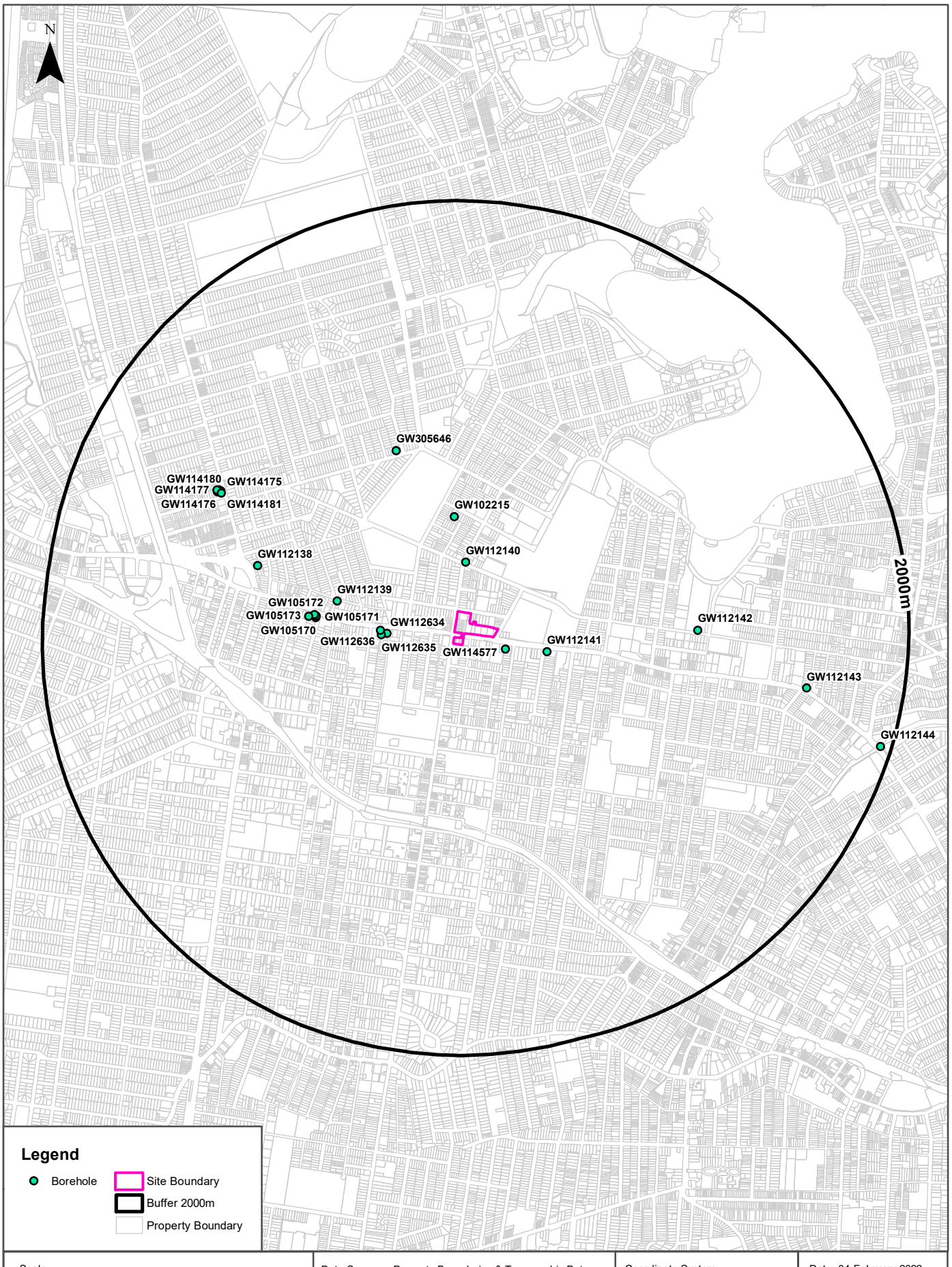
Temporary water restrictions relating to the Botany Sands aquifer within the dataset buffer:

Prohibition Area No.	Prohibition	Distance	Direction
N/A	No records in buffer		

Temporary Water Restriction (Botany Sands Groundwater Source) Order 2018 Data Source : NSW Department of Primary Industries

Groundwater Boreholes

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134



Hydrogeology & Groundwater

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134

Groundwater Boreholes

Boreholes within the dataset buffer:

GW No.	Licence No	Work Type	Owner Type	Authorised Purpose	Intended Purpose	Name	Complete Date	Final Depth (m)	Drilled Depth (m)	Salinity (mg/L)	SWL (m bgl)	Yield (L/s)	Elev (AHD)	Dist	Dir
GW114577	10BL604460	Bore	Private	Monitoring Bore	Monitoring Bore	7 ELEVEN BURWOOD	02/02/2011	2.50	2.50					83m	South East
GW112140	10BL160939	Bore	Other Govt	Monitoring Bore	Monitoring Bore		21/01/2003	52.18	52.18					242m	North
GW112141	10BL160939	Bore	Other Govt	Monitoring Bore	Monitoring Bore		08/11/2002	67.20	67.20					264m	East
GW112634	10BL603209	Bore	Private	Monitoring Bore	Monitoring Bore	Woolworths	06/08/2009	6.00	6.00					325m	West
GW112635	10BL603209	Bore	Private	Monitoring Bore	Monitoring Bore	Woolworths	06/08/2009	6.00	6.00					352m	West
GW112636	10BL603209	Bore	Private	Monitoring Bore	Monitoring Bore	Woolworths	06/08/2009	6.00	6.00					357m	West
GW102215	10BL157754	Bore	Private	Dewatering (groundwater)	Dewatering (groundwater)		12/05/1999	15.00	15.00					462m	North
GW112139	10BL160939	Bore	Other Govt	Monitoring Bore	Monitoring Bore		12/12/2002	36.00	36.00					586m	West
GW105171	10BL161851	Bore	Private	Monitoring Bore	Monitoring Bore		20/11/2002	8.20	8.20		1.54			676m	West
GW105170	10BL161851	Bore		Monitoring Bore	Monitoring Bore		19/11/2002	8.20	8.20		1.61			678m	West
GW105172	10BL161851	Bore	Private	Monitoring Bore	Monitoring Bore		19/11/2002	8.20	8.20		1.55			687m	West
GW105173	10BL161851	Bore		Monitoring Bore	Monitoring Bore		18/11/2002	8.20	8.20		1.55			712m	West
GW305646	30BL181321	Spear	Private	Domestic	Domestic		17/01/2003	6.00						838m	North West
GW112142	10BL160939	Bore	Other Govt	Monitoring Bore	Monitoring Bore		28/11/2002	76.10	76.10					973m	East
GW112138	10BL160939	Bore	Other Govt	Monitoring Bore	Monitoring Bore		14/11/2003	23.90	23.90					999m	West
GW114181	10BL603999	Bore	Private	Monitoring Bore	Monitoring Bore		16/04/2010	5.00	5.00					1287m	North West
GW114175	10BL603999	Bore	Private	Monitoring Bore	Monitoring Bore		16/04/2010	5.80	5.80					1293m	North West
GW114176	10BL603999	Bore	Private	Monitoring Bore	Monitoring Bore		16/04/2010	5.50	5.50					1300m	North West
GW114179	10BL603999	Bore	Private	Monitoring Bore	Monitoring Bore		16/04/2010	5.50	5.50					1302m	North West
GW114177	10BL603999	Bore	Private	Monitoring Bore	Monitoring Bore		16/04/2010	5.50	5.50					1308m	North West
GW114178	10BL603999	Bore	Private	Monitoring Bore	Monitoring Bore		16/04/2010	5.60	5.60					1308m	North West
GW114180	10BL603999	Bore	Private	Monitoring Bore	Monitoring Bore		16/04/2010	4.90	4.90					1312m	North West
GW112143	10BL160939	Bore	Other Govt	Monitoring Bore	Monitoring Bore		03/02/2002	67.16	67.16					1529m	East
GW112144	10BL160939	Bore	Other Govt	Monitoring Bore	Monitoring Bore		20/11/2002	57.10	57.10					1949m	East

Borehole Data Source : NSW Department of Primary Industries - Office of Water / Water Administration Ministerial Corporation for all bores prefixed with GW. All other bores © Commonwealth of Australia (Bureau of Meteorology) 2015. Creative Commons 3.0 © Commonwealth of Australia http://creativecommons.org/licenses/by/3.0/au/deed.en

Hydrogeology & Groundwater

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134

Driller's Logs

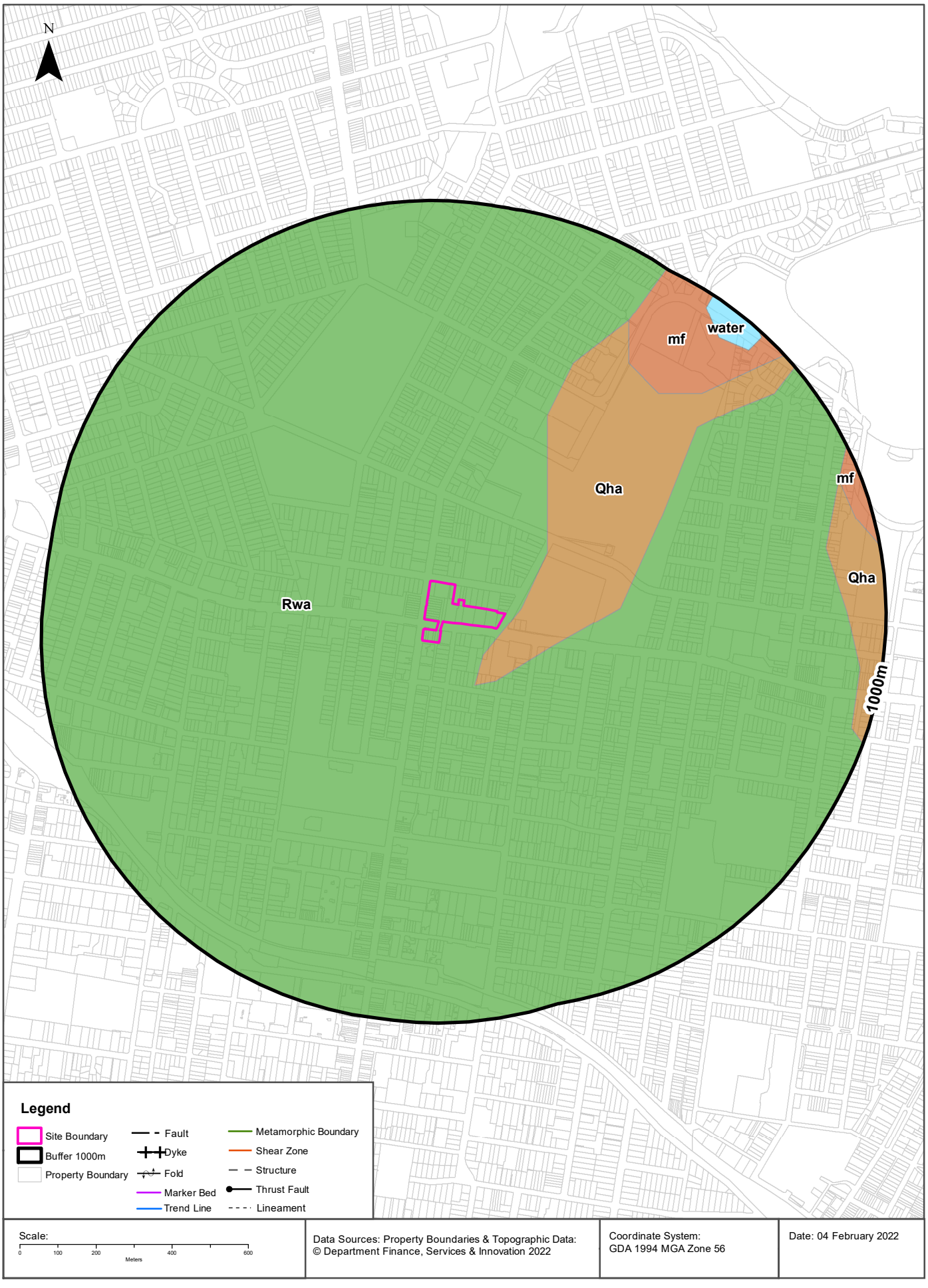
Drill log data relevant to the boreholes within the dataset buffer:

Groundwater No	Drillers Log	Distance	Direction
GW114577	0.00m-0.10m CONCRETE 0.10m-0.30m GRAVEL, SILT MINOR SAND 0.30m-0.80m SAND, GRAVEL,MINOR CLAY 0.80m-1.40m SILTY CLAY MEDIUM SOFT WET AND MOIST 1.40m-2.50m CLAY,STIFF, MOIST,LOW PLASTICITYRED BROWN	83m	South East
GW112634	0.00m-1.00m FILL 1.00m-2.00m CLAY FIRM BROWN 2.00m-3.00m ROCK WEATHERED/SILTSTONE 3.00m-6.00m SHALE WEATHERED	325m	West
GW112635	0.00m-1.00m FILL 1.00m-2.00m CLAY FIRM/ BROWN 2.00m-3.00m ROCK WEATHERED,SILTSTONE 3.00m-6.00m SHALE WEATHERED	352m	West
GW112636	0.00m-1.00m FILL 1.00m-2.00m CLAY FIRM BROWN 2.00m-3.00m ROCK WEATHERED , SILTSTONE 3.00m-6.00m SHALE WEATHERED	357m	West
GW102215	0.00m-15.00m Fill	462m	North
GW105171	0.00m-1.70m CLAY, DARK BROWN,RED,MOIST 1.70m-5.30m SHALE WEATHERED,GREY,DRY 5.30m-8.20m SHALE WEATHERED,DARK GREY	676m	West
GW105170	0.00m-1.70m CLAY, BROWN,RED,FIRM 1.70m-5.20m SHALE WEATHERED, GREY,DRY,HARD 5.20m-8.20m SHALE GREY MOIST HARD	678m	West
GW105172	0.00m-1.70m CLAY,DARK BROWN,MOIST,FIRM 1.70m-5.30m SHALE,WEATHERED,GREY,DRY 5.30m-8.20m SHALE,WEATHERED,DARK GREY,MOIST,HARD	687m	West
GW105173	0.00m-1.80m CLAY,RED-ORANGE,DRY 1.80m-6.70m SHALE,WEATHERED,BEIGE,DRY,HARD 6.70m-8.20m SHALE,SLIGHTLY WEATHERED	712m	West

Drill Log Data Source: NSW Department of Primary Industries - Office of Water / Water Administration Ministerial Corp
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Geology

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134



Geology

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134

Geological Units 1:100,000

What are the Geological Units within the dataset buffer?

Symbol	Description	Unit Name	Group	Sub Group	Age	Dom Lith	Map Sheet	Dist	Dir
Rwa	Black to dark grey shale and laminate	Ashfield Shale	Wianamatta Group		Triassic		Sydney	0m	On-site
Qha	Silty to peaty quartz sand, silt, and clay. Ferruginous and humic cementation in places. Common shell layers				Quaternary		Sydney	16m	North East
mf	Man-made fill. Dredged estuarine sand and mud, demolition rubble, industrial and household waste.				Quaternary		Sydney	705m	North East
water							Sydney	917m	North East

Geological Structures 1:100,000

What are the Geological Structures within the dataset buffer?

Feature	Name	Description	Map Sheet	Distance	Direction
N/A	No records in buffer				

Geological Data Source : NSW Department of Industry, Resources & Energy
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Naturally Occurring Asbestos Potential

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134

Naturally Occurring Asbestos Potential

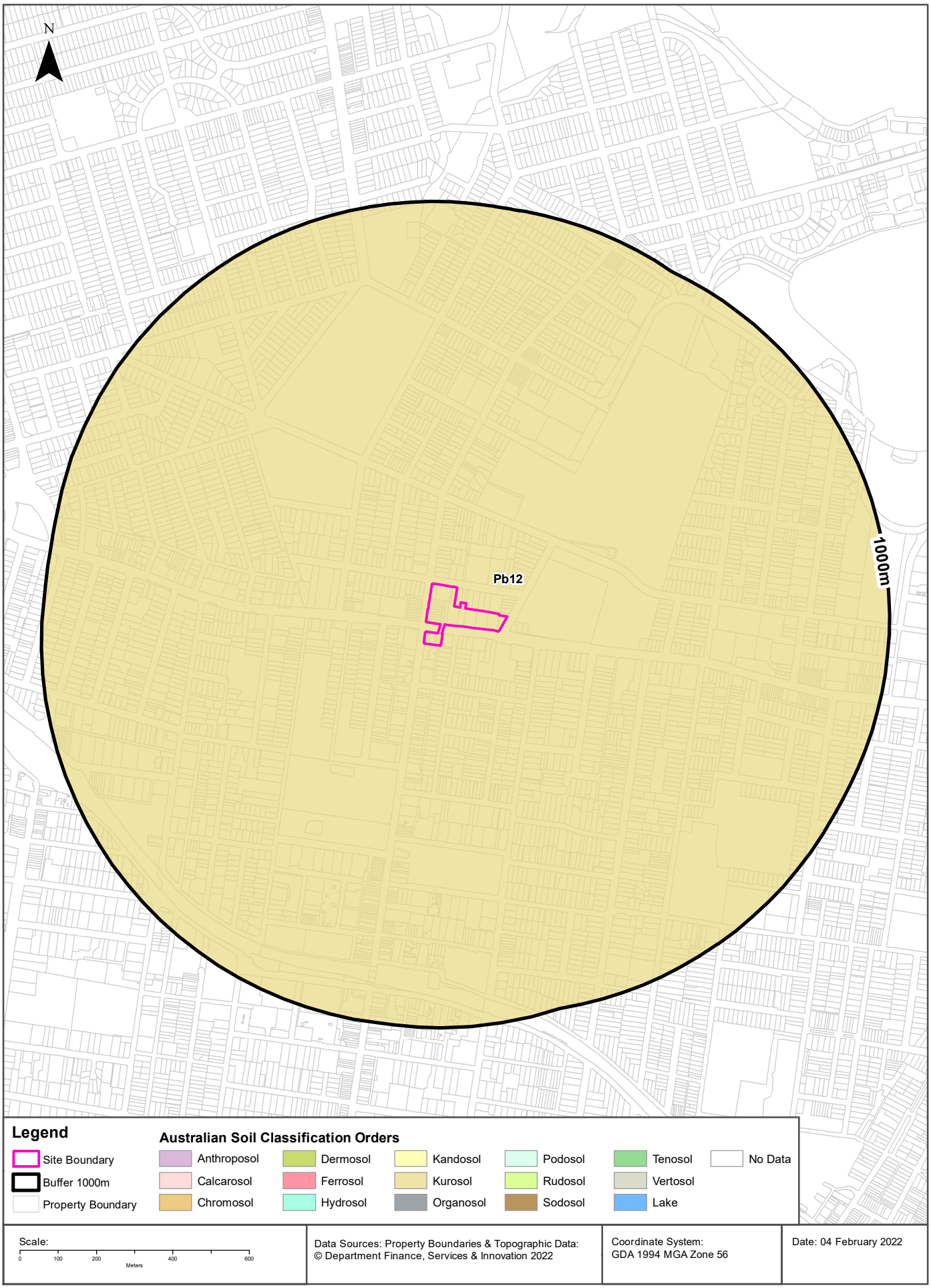
Naturally Occurring Asbestos Potential within the dataset buffer:

Potential	Sym	Strat Name	Group	Formation	Scale	Min Age	Max Age	Rock Type	Dom Lith	Description	Dist	Dir
No records in buffer												

Naturally Occurring Asbestos Potential Data Source: © State of New South Wales through NSW Department of Industry, Resources & Energy

Atlas of Australian Soils

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134



Soils

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134

Atlas of Australian Soils

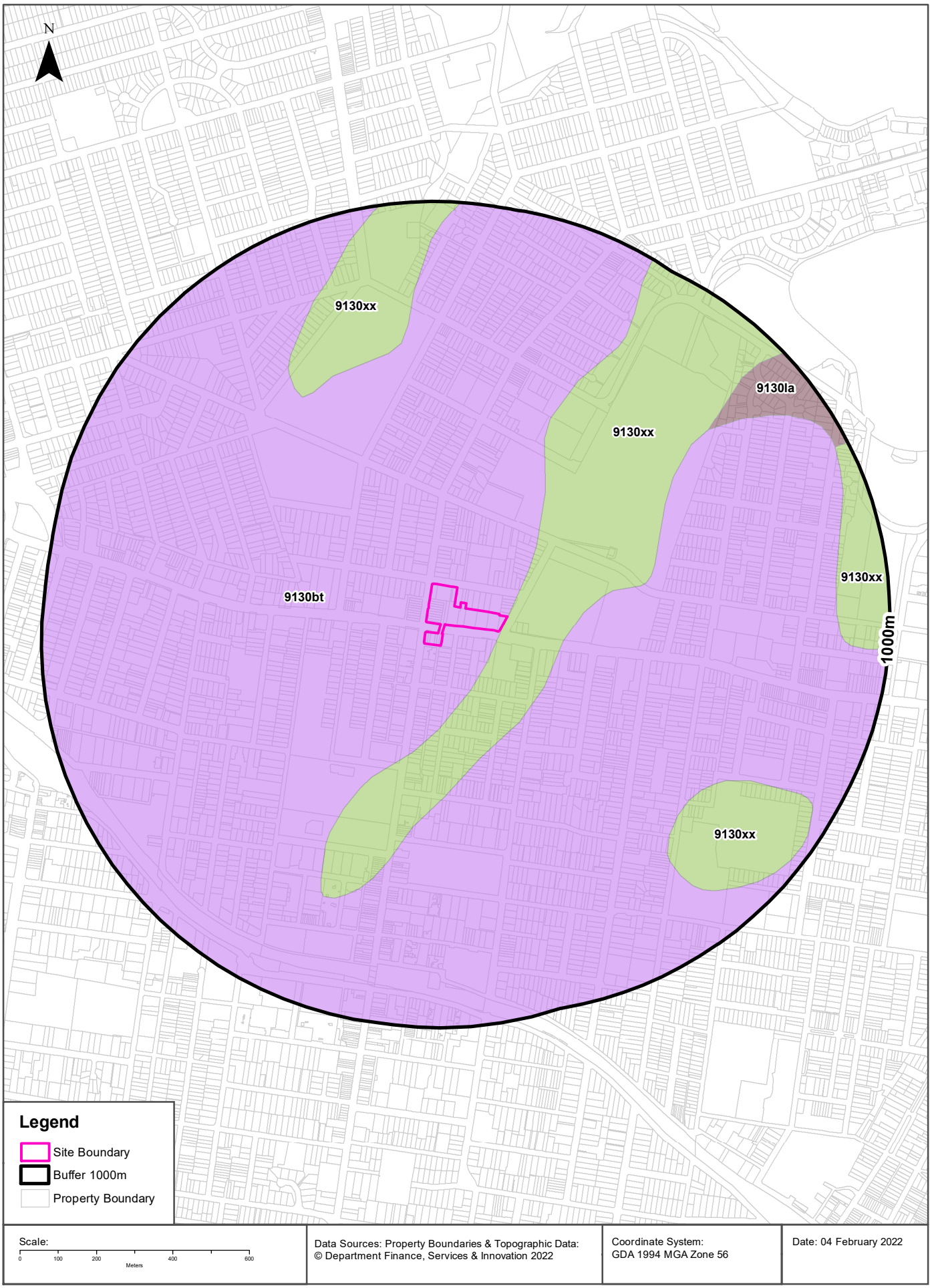
Soil mapping units and Australian Soil Classification orders within the dataset buffer:

Map Unit Code	Soil Order	Map Unit Description	Distance	Direction
Pb12	Kurosol	Gently rolling to rounded hilly country with some steep slopes and broad valleys: chief soils are hard acidic red soils (Dr2.21) with hard neutral and acidic yellow mottled soils (Dy3.42 and Dy3.41) on lower slopes and in valleys. Associated are small areas of various soils including (Gn3.54) on some ridges, (Dr3.31) on some slopes; (Dr2.23) in saddles and some mid-slope positions, and some low- lying swampy areas of (Uf6) soils and (Uc1.2) soils with peaty surfaces. Small areas of other soils such as (Db1.2) are likely throughout.	0m	On-site

Atlas of Australian Soils Data Source: CSIRO
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Soil Landscapes of Central and Eastern NSW

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134



Soils

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134

Soil Landscapes of Central and Eastern NSW

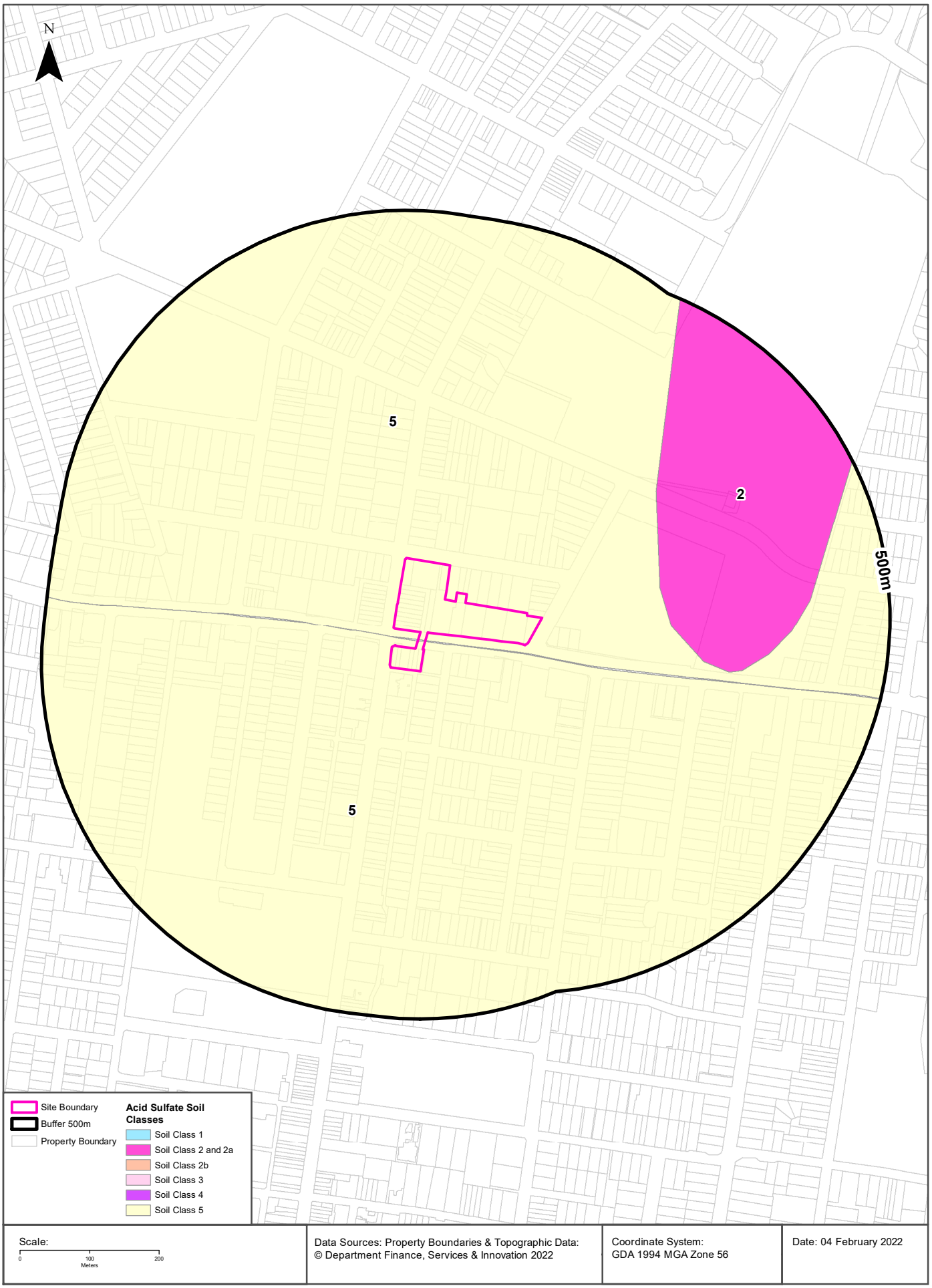
Soil Landscapes of Central and Eastern NSW within the dataset buffer:

Soil Code	Name	Distance	Direction
9130bt	Blacktown	0m	On-site
9130xx	Disturbed Terrain	0m	On-site
9130la	Lambert	716m	North East

Soil Landscapes of Central and Eastern NSW: NSW Department of Planning, Industry and Environment
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Acid Sulfate Soils

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134



Acid Sulfate Soils

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134

Environmental Planning Instrument - Acid Sulfate Soils

What is the on-site Acid Sulfate Soil Plan Class that presents the largest environmental risk?

Soil Class	Description	EPI Name
5	Works within 500 metres of adjacent Class 1, 2, 3, or 4 land that is below 5 metres AHD and by which the watertable is likely to be lowered below 1 metre AHD on adjacent Class 1, 2, 3 or 4 land, present an environmental risk	Canada Bay Local Environmental Plan 2013
5	Works within 500 metres of adjacent Class 1, 2, 3, or 4 land that is below 5 metres AHD and by which the watertable is likely to be lowered below 1 metre AHD on adjacent Class 1, 2, 3 or 4 land, present an environmental risk	Burwood Local Environmental Plan 2012

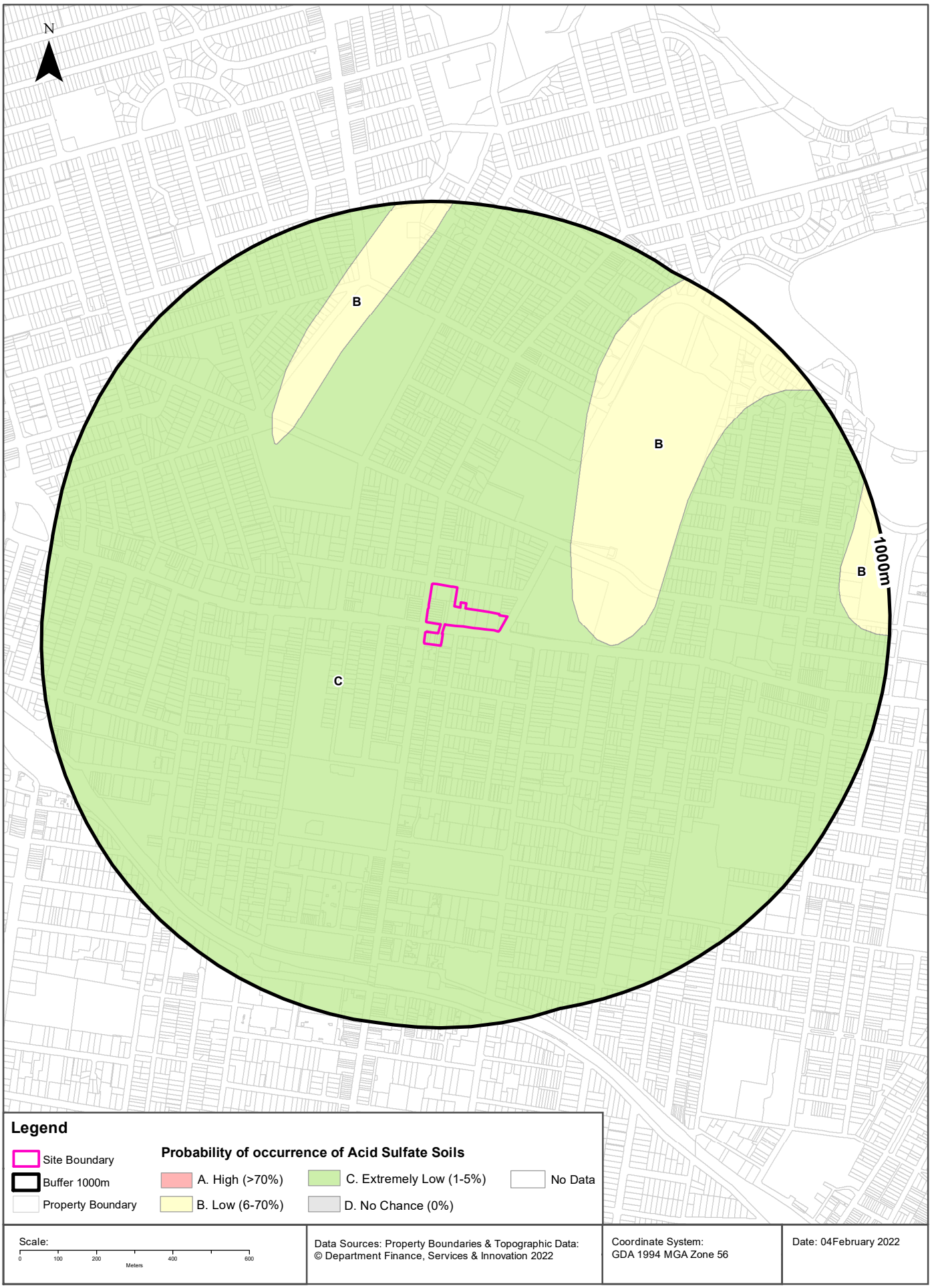
If the on-site Soil Class is 5, what other soil classes exist within 500m?

Soil Class	Description	EPI Name	Distance	Direction
2	Works below natural ground surface present an environmental risk; Works by which the watertable is likely to be lowered present an environmental risk	Canada Bay Local Environmental Plan 2013	175m	North East

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Atlas of Australian Acid Sulfate Soils

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134



Acid Sulfate Soils

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134

Atlas of Australian Acid Sulfate Soils

Atlas of Australian Acid Sulfate Soil categories within the dataset buffer:

Class	Description	Distance	Direction
C	Extremely low probability of occurrence. 1-5% chance of occurrence with occurrences in small localised areas.	0m	On-site
B	Low Probability of occurrence. 6-70% chance of occurrence.	175m	North East

Atlas of Australian Acid Sulfate Soils Data Source: CSIRO
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Dryland Salinity

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134

Dryland Salinity - National Assessment

Is there Dryland Salinity - National Assessment data onsite?

No

Is there Dryland Salinity - National Assessment data within the dataset buffer?

No

What Dryland Salinity assessments are given?

Assessment 2000	Assessment 2020	Assessment 2050	Distance	Direction
N/A	N/A	N/A		

Dryland Salinity Data Source : National Land and Water Resources Audit
The Commonwealth and all suppliers of source data used to derive the maps of "Australia, Forecast Areas Containing Land of High Hazard or Risk of Dryland Salinity from 2000 to 2050" do not warrant the accuracy or completeness of information in this product. Any person using or relying upon such information does so on the basis that the Commonwealth and data suppliers shall bear no responsibility or liability whatsoever for any errors, faults, defects or omissions in the information. Any persons using this information do so at their own risk.
In many cases where a high risk is indicated, less than 100% of the area will have a high hazard or risk.

Mining

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134

Mining Subsidence Districts

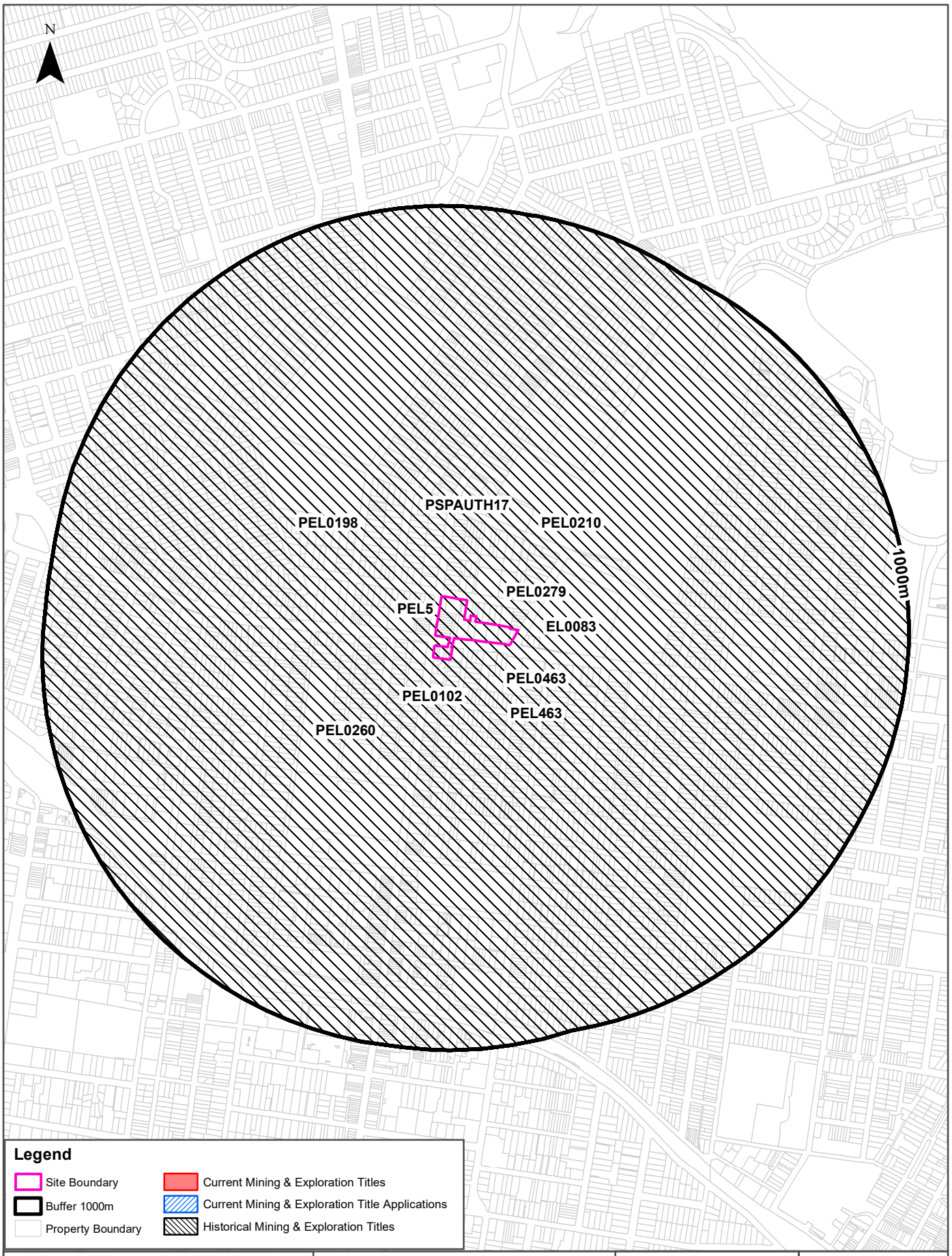
Mining Subsidence Districts within the dataset buffer:

District	Distance	Direction
There are no Mining Subsidence Districts within the report buffer		

Mining Subsidence District Data Source: © Land and Property Information (2016)
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Mining & Exploration Titles

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134



Mining

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134

Current Mining & Exploration Titles

Current Mining & Exploration Titles within the dataset buffer:

Title Ref	Holder	Grant Date	Expiry Date	Last Renewed	Operation	Resource	Minerals	Dist	Dir
N/A	No records in buffer								

Current Mining & Exploration Titles Data Source: © State of New South Wales through NSW Department of Industry

Current Mining & Exploration Title Applications

Current Mining & Exploration Title Applications within the dataset buffer:

Application Ref	Applicant	Application Date	Operation	Resource	Minerals	Dist	Dir
N/A	No records in buffer						

Current Mining & Exploration Title Applications Data Source: © State of New South Wales through NSW Department of Industry

Mining

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134

Historical Mining & Exploration Titles

Historical Mining & Exploration Titles within the dataset buffer:

Title Ref	Holder	Start Date	End Date	Resource	Minerals	Dist	Dir
PEL0210	THE AUSTRALIAN GAS LIGHT COMPANY (AGL), NORTH BULLI COLLIERIES PTY LTD			PETROLEUM	Petroleum	0m	On-site
PEL0463	DART ENERGY (APOLLO) PTY LTD	22/10/2008	6/03/2015	PETROLEUM	Petroleum	0m	On-site
PSPAUTH17	MACQUARIE ENERGY PTY LTD	8/03/2007	7/03/2008	PETROLEUM	Petroleum	0m	On-site
EL0083	CONTINENTAL OIL CO OF AUSTRALIA LIMITED	01 Feb 1967	01 Feb 1968	MINERALS		0m	On-site
PEL463	DART ENERGY (APOLLO) PTY LTD			MINERALS		0m	On-site
PEL5	AGL UPSTREAM INVESTMENTS PTY LIMITED			MINERALS		0m	On-site
PEL0260	NORTH BULLI COLLIERIES PTY LTD, AGL PETROLEUM OPERATIONS PTY LTD, THE AUSTRALIAN GAS LIGHT CO.	9/09/1981	8/03/1993	PETROLEUM	Petroleum	0m	On-site
PEL0198	JOHN STREVENS (TERRIGAL) NL			PETROLEUM	Petroleum	0m	On-site
PEL0102	AUSTRALIAN OIL AND GAS CORPORATION LTD			PETROLEUM	Petroleum	0m	On-site
PEL0279	THE ELECTRICITY COMMISSION OF NSW (TRADING AS PACIFIC POWER)	17/04/1990	11/11/1993	PETROLEUM	Petroleum	0m	On-site

Historical Mining & Exploration Titles Data Source: © State of New South Wales through NSW Department of Industry

State Environmental Planning Policy

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134

State Significant Precincts

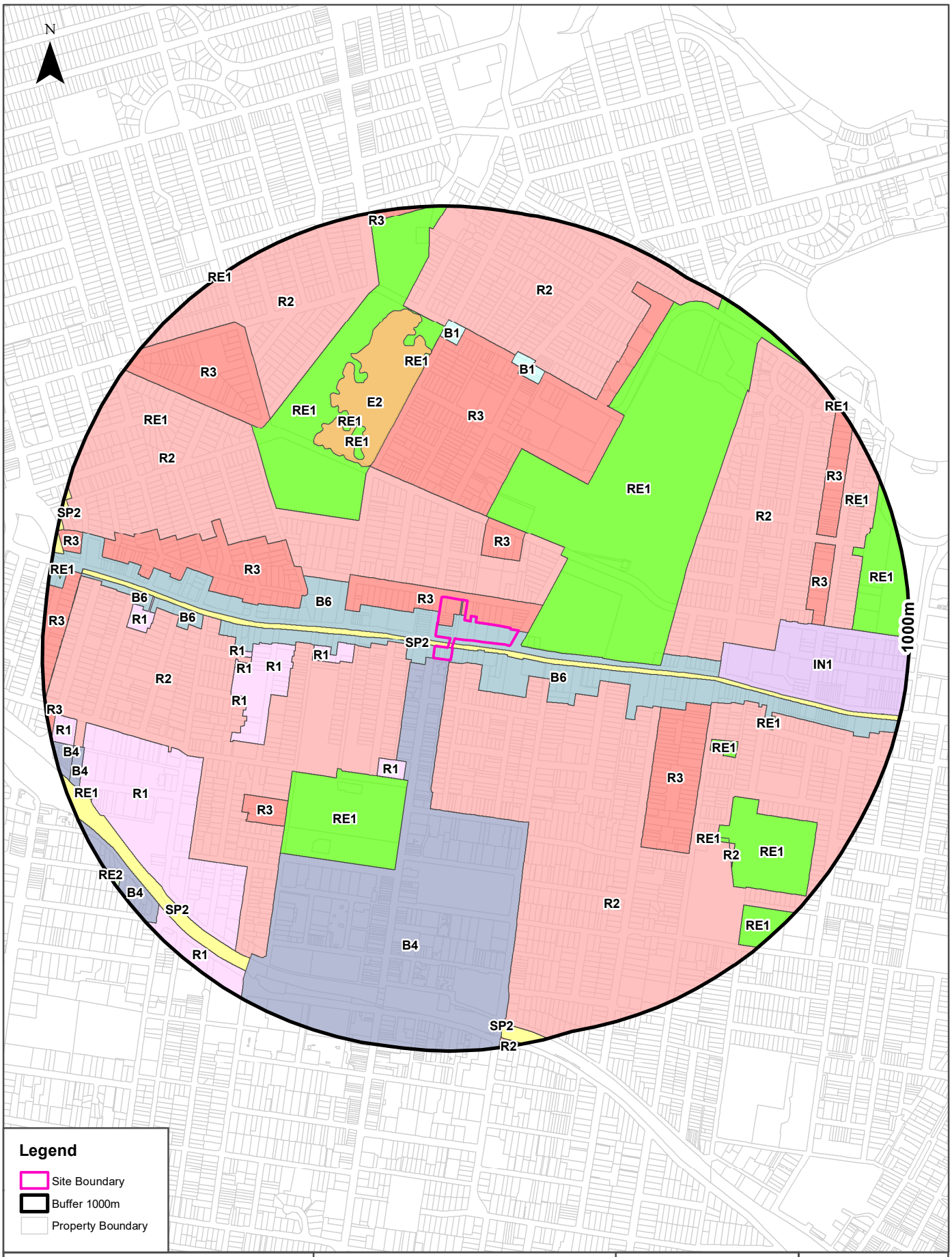
What SEPP State Significant Precincts exist within the dataset buffer?

Map Id	Precinct	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
N/A	No records in buffer							

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EPI Planning Zones

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134



Data Sources: Property Boundaries & Topographic Data: © Department Finance, Services & Innovation 2022
Planning: NSW Crown Copyright - Planning & Environment

Coordinate System: GDA 1994 MGA Zone 56

Date: 04 February 2022

Environmental Planning Instrument

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134

Land Zoning

What EPI Land Zones exist within the dataset buffer?

Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
B6	Enterprise Corridor		Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	30/10/2021		0m	On-site
B6	Enterprise Corridor		Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	17/01/2020		0m	On-site
R3	Medium Density Residential		Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	30/10/2021		0m	On-site
SP2	Infrastructure	Classified Road	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	17/01/2020		0m	On-site
B4	Mixed Use		Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	17/01/2020		1m	South
R2	Low Density Residential		Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	17/01/2020		5m	South East
R2	Low Density Residential		Canada Bay Local Environmental Plan 2013	26/02/2021	26/02/2021	30/10/2021	Amendment No 18	20m	North West
RE1	Public Recreation		Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	30/10/2021		21m	North East
R2	Low Density Residential		Burwood Local Environmental Plan 2012	17/01/2020	17/01/2020	17/01/2020	Amendment No 16	57m	West
R3	Medium Density Residential		Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	30/10/2021		122m	North
R1	General Residential		Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	17/01/2020		204m	West
R3	Medium Density Residential		Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	30/10/2021		224m	North
R1	General Residential		Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	17/01/2020		274m	South West
RE1	Public Recreation		Canada Bay Local Environmental Plan 2013	26/02/2021	26/02/2021	30/10/2021	Amendment No 18	292m	North West
RE1	Public Recreation		Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	17/01/2020		320m	South West
R3	Medium Density Residential		Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	30/10/2021		341m	West
R1	General Residential		Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	17/01/2020		354m	West
R2	Low Density Residential		Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	30/10/2021		374m	East
E2	Environmental Conservation		Canada Bay Local Environmental Plan 2013	26/02/2021	26/02/2021	30/10/2021	Amendment No 18	385m	North
RE1	Public Recreation		Canada Bay Local Environmental Plan 2013	26/02/2021	26/02/2021	30/10/2021	Amendment No 18	408m	North West
R3	Medium Density Residential		Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	17/01/2020		412m	South East
R1	General Residential		Burwood Local Environmental Plan 2012	13/09/2013	13/09/2013	17/01/2020	Amendment No 2	464m	West
R1	General Residential		Burwood Local Environmental Plan 2012	13/09/2013	13/09/2013	17/01/2020	Amendment No 2	468m	West
RE1	Public Recreation		Canada Bay Local Environmental Plan 2013	26/02/2021	26/02/2021	30/10/2021	Amendment No 18	488m	North West
R1	General Residential		Burwood Local Environmental Plan 2012	13/09/2013	13/09/2013	17/01/2020	Amendment No 2	489m	West
IN1	General Industrial		Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	30/10/2021		521m	East
R3	Medium Density Residential		Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	17/01/2020		522m	South West
RE1	Public Recreation		Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	17/01/2020		565m	South East

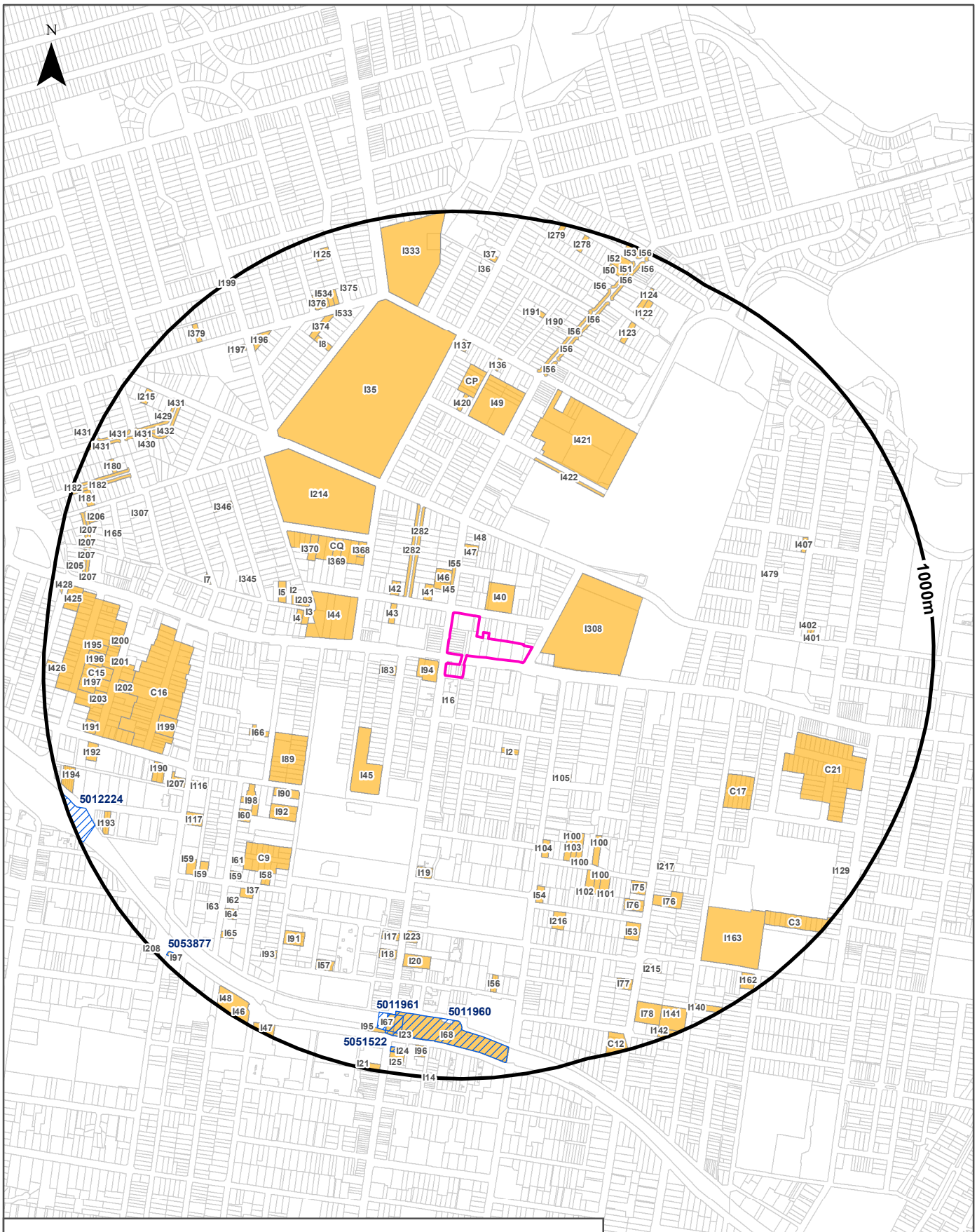
Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
B1	Neighbourhood Centre		Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	30/10/2021		584m	North
RE1	Public Recreation		Canada Bay Local Environmental Plan 2013	26/02/2021	26/02/2021	30/10/2021	Amendment No 18	593m	North
B6	Enterprise Corridor		Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	17/01/2020		597m	West
R2	Low Density Residential		Canada Bay Local Environmental Plan 2013	26/02/2021	26/02/2021	30/10/2021	Amendment No 18	610m	North
R3	Medium Density Residential		Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	30/10/2021		633m	North West
R1	General Residential		Burwood Local Environmental Plan 2012	17/01/2020	17/01/2020	17/01/2020	Amendment No 16	643m	South West
B1	Neighbourhood Centre		Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	30/10/2021		645m	North
RE1	Public Recreation		Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	17/01/2020		666m	East
RE1	Public Recreation		Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	17/01/2020		689m	South East
RE1	Public Recreation		Burwood Local Environmental Plan 2012	16/09/2016	16/09/2016	17/01/2020	Amendment No 9	703m	South East
R1	General Residential		Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	17/01/2020		721m	West
B6	Enterprise Corridor		Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	17/01/2020		730m	West
R3	Medium Density Residential		Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	30/10/2021		735m	East
R2	Low Density Residential		Burwood Local Environmental Plan 2012	16/09/2016	16/09/2016	17/01/2020	Amendment No 9	753m	South East
R3	Medium Density Residential		Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	30/10/2021		799m	North East
RE1	Public Recreation		Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	30/10/2021		848m	North West
RE1	Public Recreation		Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	30/10/2021		851m	East
RE1	Public Recreation		Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	17/01/2020		892m	South East
SP2	Infrastructure	Railway	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	17/01/2020		900m	South West
RE1	Public Recreation		Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	30/10/2021		904m	East
R3	Medium Density Residential		Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	30/10/2021		920m	West
B4	Mixed Use		Burwood Local Environmental Plan 2012	13/09/2013	13/09/2013	17/01/2020	Amendment No 2	923m	West
R1	General Residential		Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	17/01/2020		925m	West
R3	Medium Density Residential		Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	30/10/2021		931m	West
R1	General Residential		Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	17/01/2020		934m	South West
RE1	Public Recreation		Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	17/01/2020		935m	South West
SP2	Infrastructure	Railway	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	17/01/2020		936m	South
B4	Mixed Use		Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	17/01/2020		944m	South West
B4	Mixed Use		Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	17/01/2020		948m	West
R2	Low Density Residential		Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	17/01/2020		968m	South
RE1	Public Recreation		Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	30/10/2021		969m	West
SP2	Infrastructure	Classified Road	Canada Bay Local Environmental Plan 2013	26/02/2021	26/02/2021	30/10/2021	Amendment No 18	972m	West
R3	Medium Density Residential		Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	30/10/2021		975m	North
RE2	Private Recreation		Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	17/01/2020		975m	South West

Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
RE1	Public Recreation		Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	30/10/2021		992m	North East
RE1	Public Recreation		Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	30/10/2021		998m	North West

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Heritage Items

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134


N
1000m
5012224
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I193
I166
I89

Heritage

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134

Commonwealth Heritage List

What are the Commonwealth Heritage List Items located within the dataset buffer?

Place Id	Name	Address	Place File No	Class	Status	Register Date	Distance	Direction
N/A	No records in buffer							

Heritage Data Source: Australian Government Department of the Environment and Energy - Heritage Branch
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National Heritage List

What are the National Heritage List Items located within the dataset buffer?
Note. Please click on Place Id to activate a hyperlink to online website.

Place Id	Name	Address	Place File No	Class	Status	Register Date	Distance	Direction
N/A	No records in buffer							

Heritage Data Source: Australian Government Department of the Environment and Energy - Heritage Branch
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State Heritage Register - Curtilages

What are the State Heritage Register Items located within the dataset buffer?

Map Id	Name	Address	LGA	Listing Date	Listing No	Plan No	Distance	Direction
5011960	Burwood Railway Station group	Great Southern and Western Railway, Burwood	BURWOOD	02/04/1999	01106	2155	846m	South
5011961	Burwood rail underbridge	Great Southern and Western Railway, Burwood	BURWOOD	02/04/1999	01030	2938	854m	South
5051522	Burwood Post Office (former)	168A Burwood Road Burwood	BURWOOD	18/05/2001	01490	1998	935m	South
5012224	Strathfield Railway Station group	Great Southern and Western Railway, Strathfield	STRATHFIELD	02/04/1999	01252	2916	950m	South West
5053877	Burwood Sewer Vent	Railway Parade, Burwood	BURWOOD	15/11/2002	01638	1999	966m	South West

Heritage Data Source: NSW Crown Copyright - Office of Environment & Heritage
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Environmental Planning Instrument - Heritage

What are the EPI Heritage Items located within the dataset buffer?

Map Id	Name	Classification	Significance	EPI Name	Published Date	Commenced Date	Currency Date	Distance	Direction
I94	Bath Arms Hotel	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	19m	South West
I308	St Luke's Park entrance - gateway/entrance. Gates and trees only - landscape	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	21m	East
I40	St Luke's Anglican Church - church and grounds	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	22m	North East
I55	Sandstone kerbing (west side, adjacent) - landscape	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	52m	North
I16	Semi-detached Houses	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	52m	South West
I45	Former Post Office building	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	57m	North West
I41	House 'Lansdowne'	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	64m	North West
I46	Former Anglican Rectory building	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	74m	North West
I282	Street trees - landscape	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	112m	North West
I83	Federation House	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	122m	West
I282	Street trees - landscape	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	126m	North West
I43	House 'Loretto'	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	143m	West
I42	Houses 'Melaleuca' & 'Clewer'. Pair of terrace houses, fences and garden.	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	145m	North West
I47	House	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	147m	North
I48	House	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	166m	North
I2	Attached Houses	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	199m	South
I45	Teachers Residence - Christian Bros. High School	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	227m	South West
I44	St.Mary's Church - church & school	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	240m	West
CQ	Park Av	Conservation Area - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	255m	North West
I368	House 'Netherby' and garden	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	262m	North West
I105	"Fernleigh"	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	285m	South East
I214	Goddard Park - landscape	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	292m	North West

Map Id	Name	Classification	Significance	EPI Name	Published Date	Commenced Date	Currency Date	Distance	Direction
I369	House	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	313m	North West
I3	Federation House	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	355m	West
I203	House	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	358m	West
I370	House	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	370m	North West
I4	House and garden	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	371m	West
I89	Methodist Ladies' College	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	375m	South West
I35	Queen Elizabeth Park - landscape	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	383m	North West
I2	House "Marathon"	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	387m	West
I422	Street trees - landscape	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	408m	North East
I5	House	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	417m	West
I421	Concord High School grounds - landscape	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	429m	North East
I100	Federation Houses	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	433m	South East
I103	Federation House	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	439m	South East
I104	Federation House and Garden	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	443m	South
I100	Federation Houses	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	445m	South East
I49	Concord Primary School - school, grounds	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	458m	North
I66	"Grantham"	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	461m	West
I90	Federation House	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	466m	South West
I100	Federation Houses	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	466m	South East
I19	Victorian Shops	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	480m	South
I92	Victorian Villas	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	493m	South West
I345	House	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	499m	West
I420	House 'Tabratong'	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	502m	North
CP	Salisbury St Housing Group	Conservation Area - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	538m	North

Map Id	Name	Classification	Significance	EPI Name	Published Date	Commenced Date	Currency Date	Distance	Direction
I102	"Orama"	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	540m	South East
I98	Victorian House	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	547m	South West
I100	Federation Houses	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	551m	South East
I54	Victorian House	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	551m	South
I101	Victorian Villa	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	560m	South East
C9	Ilfracombe Avenue Conservation Area	Conservation Area - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	576m	South West
C17	Rostherne Avenue Conservation Area	Conservation Area - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	579m	South East
I60	Victorian Houses	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	589m	South West
I217	House	Item - General	Local	Burwood Local Environmental Plan 2012	29/09/2017	29/09/2017	29/10/2021	598m	South East
I479	House	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	601m	East
I75	House	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	606m	South East
I7	Street tree - landscape	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	609m	West
I136	Shop and residence	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	611m	North
I346	House	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	611m	North West
I56	Street trees - landscape	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	621m	North
I216	House	Item - General	Local	Burwood Local Environmental Plan 2012	29/09/2017	29/09/2017	29/10/2021	624m	South
I56	Street trees - landscape	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	626m	North
C16	Philip Street Conservation Area	Conservation Area - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	629m	West
I76	Villas	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	639m	South East
I223	"Ely House" excluding ground floor shopfronts	Item - General	Local	Burwood Local Environmental Plan 2012	28/09/2018	28/09/2018	29/10/2021	642m	South
I116	"Tablikoom"	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	649m	South West
I137	Shops	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	650m	North
I17	Shops - First Floor Façade	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	653m	South
I58	Semi-detached Houses	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	657m	South West

Map Id	Name	Classification	Significance	EPI Name	Published Date	Commenced Date	Currency Date	Distance	Direction
I76	Villas	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	663m	South East
I56	Street trees - landscape	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	666m	North
I199	Victorian Cottages	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	676m	West
I61	Victorian Houses	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	676m	South West
C21	Wychbury & Alexandra Avenue Conservation Area	Conservation Area - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	681m	East
I402	One of a pair of Terrace Houses	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	683m	East
I401	One of a pair of Terrace Houses	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	691m	East
I53	"Eurella House"	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	694m	South East
I18	Victorian Shops - First Floor Façade	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	695m	South
I117	"Strathview" and "Wentworth"	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	695m	South West
I207	Victorian Villa	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	697m	South West
I20	Congregational (Uniting) Church and Church Hall	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	699m	South
I59	Federation Houses	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	704m	South West
I407	House	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	709m	East
I37	"Twickenham"	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	716m	South West
I8	House	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	723m	North West
I91	"Rossmoyne" - Formerly "Tulloona"	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	729m	South West
I190	Victorian House	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	732m	West
I56	Street trees - landscape	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	740m	North
I56	Victorian Semi-detached Houses	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	743m	South
I190	House	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	750m	North
I59	Federation Houses	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	750m	South West
I62	"Gasgoyne"	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	757m	South West
I163	Burwood Girls' High School	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	762m	South East

Map Id	Name	Classification	Significance	EPI Name	Published Date	Commenced Date	Currency Date	Distance	Direction
I191	House	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	762m	North
I57	"Lochiel Terrace"	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	764m	South West
I374	House	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	765m	North West
C15	Mosely & Roberts Streets Conservation Area	Conservation Area - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	768m	West
I123	House	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	769m	North East
I333	Rothwell Park - landscape	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	770m	North
I59	Federation Houses	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	771m	South West
I202	"Wilgunyah"	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	780m	West
I64	"Aberfoyle"	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	780m	South West
I63	Semi-detached Houses	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	800m	South West
I307	House	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	802m	West
I93	Victorian Villa	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	804m	South West
I215	House	Item - General	Local	Burwood Local Environmental Plan 2012	10/06/2016	10/06/2016	29/10/2021	806m	South East
I200	Victorian Houses	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	808m	West
I77	"Passadena"	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	819m	South East
I196	Adventist Church - church	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	819m	North West
I375	Inter-War Bungalow	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	823m	North
I533	Inter-War Bungalow	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	824m	North West
I534	Inter-War Bungalow	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	825m	North West
I201	Arts and Crafts House	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	826m	West
I376	House	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	827m	North West
I65	Brick Cottage	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	829m	South West
I197	House	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	835m	North West
I431	Street trees - landscape	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	839m	North West

Map Id	Name	Classification	Significance	EPI Name	Published Date	Commenced Date	Currency Date	Distance	Direction
I195	Federation House	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	842m	West
I203	"Helikon"	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	844m	West
I68	Great Southern and Western Railway	Item - General	State	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	846m	South
I122	House	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	846m	North East
I196	Arts and Crafts House	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	847m	West
I432	Traffic island garden - landscape	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	848m	North West
I124	House	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	848m	North East
I36	House	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	850m	North
I67	Burwood Rail Underbridge	Item - General	State	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	854m	South
I56	Street trees - landscape	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	855m	North
I431	Street trees - landscape	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	856m	North West
I197	1930's Housing Group	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	856m	West
I429	House 'Serendipity'	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	863m	North West
I165	House	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	863m	West
C3	Blair Avenue Conservation Area	Conservation Area - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	863m	South East
I430	Sub-station	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	866m	North West
I191	Federation House and Garden	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	872m	West
I182	Street trees - landscape	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	873m	North West
I37	House	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	878m	North
I192	1950's House and Garden	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	881m	West
I56	Street trees - landscape	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	882m	North
I182	Street trees - landscape	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	883m	North West
I78	"Montrose" and Grounds	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	890m	South East
I95	Parcels Office (Former)	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	892m	South

Map Id	Name	Classification	Significance	EPI Name	Published Date	Commenced Date	Currency Date	Distance	Direction
I23	Federation Shop - First Floor Façade	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	900m	South
I193	"Nevada" and "Gleneyr"	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	900m	South West
I180	House 'Kelvin'	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	910m	North West
I206	House 'Wangi'	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	911m	West
I207	Street trees - landscape	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	911m	West
I50	House	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	916m	North
I207	Street trees - landscape	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	917m	West
I425	St Andrew's Church - church	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	920m	West
I141	Ascot Nursing Home	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	921m	South East
I96	St Nectarios Greek Orthodox Church - Formerly Methodist	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	922m	South
I207	Street trees - landscape	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	922m	West
I379	House	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	923m	North West
I431	Street trees - landscape	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	925m	North West
I215	House - Myraville	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	926m	North West
I207	Street trees - landscape	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	928m	West
I129	"Karingal" Cottage and Garden	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	928m	South East
I205	House	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	931m	West
I51	House	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	932m	North
I431	Street trees - landscape	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	933m	North West
I181	House	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	935m	West
I24	Burwood Post Office (Former)	Item - General	State	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	935m	South
I125	Presbyterian Church	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	937m	North
I278	House 'Ypres'	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	942m	North
C12	Lucus Road Conservation Area	Conservation Area - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	944m	South

Map Id	Name	Classification	Significance	EPI Name	Published Date	Commenced Date	Currency Date	Distance	Direction
I52	House	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	944m	North
I162	"Esperanza"	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	944m	South East
I25	Shops - First Floor Façades	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	947m	South
I140	Brackwood Court	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	950m	South East
I194	Whelan's Strathfield Hotel	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	950m	West
I48	School of Arts (Former)	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	951m	South West
I46	Burwood Public School	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	951m	South West
I426	House	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	955m	West
I279	House	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	961m	North
I97	Burwood Sewer Vent	Item - General	State	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	966m	South West
I47	Burwood Council Office (1887 Building Only)	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	969m	South West
I428	Milling Place - mature deodar, cedar trees	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	969m	West
I142	"Wyrac"	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	970m	South East
I56	Street trees - landscape	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	974m	North East
I56	Street trees - landscape	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	978m	North East
I53	House	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	981m	North
I21	Federation Shops - First Floor Façades	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	982m	South
I208	"Chontai"	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	984m	South West
I431	Street trees - landscape	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	995m	North West
I14	Victorian Terraces	Item - General	Local	Burwood Local Environmental Plan 2012	09/11/2012	09/11/2012	29/10/2021	997m	South
I199	Henley Park - landscape	Item - General	Local	Canada Bay Local Environmental Plan 2013	19/07/2013	02/08/2013	26/02/2021	998m	North West

Heritage Data Source: NSW Crown Copyright - Planning & Environment
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Natural Hazards

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134

Bush Fire Prone Land

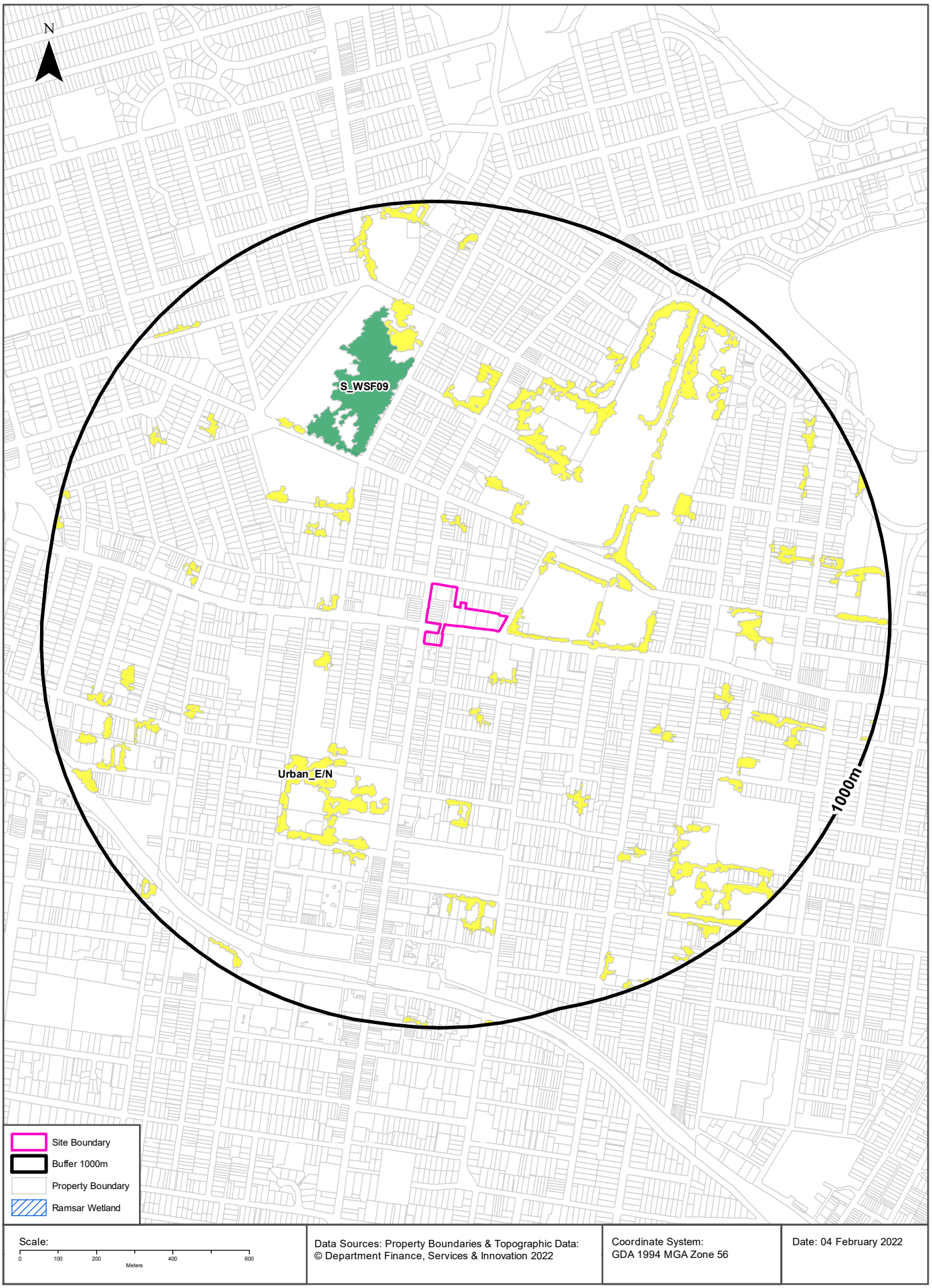
What are the nearest Bush Fire Prone Land Categories that exist within the dataset buffer?

Bush Fire Prone Land Category	Distance	Direction
No records in buffer		

NSW Bush Fire Prone Land - © NSW Rural Fire Service under Creative Commons 4.0 International Licence

Ecological Constraints - Vegetation & Ramsar Wetlands

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134



Ecological Constraints

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134

Native Vegetation

What native vegetation exists within the dataset buffer?

Map ID	Map Unit Name	Threatened Ecological Community NSW	Threatened Ecological Community EPBC Act	Understorey	Disturbance	Disturbance Index	Dominant Species	Dist	Dir
Urban_E/N	Urban_E/N: Urban Exotic/Native			00: Not assessed	00: Not assessed	0: Not assessed	Urban Exotic/Native	14m	East
S_WSF09	S_WSF09: Sydney Turpentine-Ironbark Forest	Sydney Turpentine Ironbark Forest	Turpentine Ironbark Forest (possible)	15: Grassy natives and exotics	19: Clearing/Part clearing	4: Very high	S.glomulifera/E.paniculata/E.resinifera	388m	North

Native Vegetation of the Sydney Metropolitan Area : NSW Office of Environment and Heritage
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Ramsar Wetlands

What Ramsar Wetland areas exist within the dataset buffer?

Map Id	Ramsar Name	Wetland Name	Designation Date	Source	Distance	Direction
N/A	No records in buffer					

Ramsar Wetlands Data Source: © Commonwealth of Australia - Department of Agriculture, Water and the Environment

Ecological Constraints

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134

Groundwater Dependent Ecosystems Atlas

Type	GDE Potential	Geomorphology	Ecosystem Type	Aquifer Geology	Distance	Direction
N/A	No records in buffer					

Groundwater Dependent Ecosystems Atlas Data Source: The Bureau of Meteorology
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Ecological Constraints

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134

Inflow Dependent Ecosystems Likelihood

Type	IDE Likelihood	Geomorphology	Ecosystem Type	Aquifer Geology	Distance	Direction
N/A	No records in buffer					

Inflow Dependent Ecosystems Likelihood Data Source: The Bureau of Meteorology
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Ecological Constraints

Corner of Burwood Road & Parramatta Road, Burwood, NSW 2134

NSW BioNet Atlas

Species on the NSW BioNet Atlas that have a NSW or federal conservation status, a NSW sensitivity status, or are listed under a migratory species agreement, and are within 10km of the site?

Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Animalia	Amphibia	Crinia tinnula	Wallum Froglet	Vulnerable	Not Sensitive	Not Listed	
Animalia	Amphibia	Litoria aurea	Green and Golden Bell Frog	Endangered	Not Sensitive	Vulnerable	
Animalia	Amphibia	Pseudophryne australis	Red-crowned Toadlet	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Actitis hypoleucos	Common Sandpiper	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Anseranas semipalmata	Magpie Goose	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Anthochaera phrygia	Regent Honeyeater	Critically Endangered	Not Sensitive	Critically Endangered	
Animalia	Aves	Apus pacificus	Fork-tailed Swift	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Ardenna grisea	Sooty Shearwater	Not Listed	Not Sensitive	Not Listed	JAMBA
Animalia	Aves	Ardenna pacifica	Wedge-tailed Shearwater	Not Listed	Not Sensitive	Not Listed	JAMBA
Animalia	Aves	Ardenna tenuirostris	Short-tailed Shearwater	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Arenaria interpres	Ruddy Turnstone	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Artamus cyanopterus cyanopterus	Dusky Woodswallow	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Botaurus poiciloptilus	Australasian Bittern	Endangered	Not Sensitive	Endangered	
Animalia	Aves	Burhinus grallarius	Bush Stone-curlew	Endangered	Not Sensitive	Not Listed	
Animalia	Aves	Calidris acuminata	Sharp-tailed Sandpiper	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Calidris alba	Sanderling	Vulnerable	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Calidris canutus	Red Knot	Not Listed	Not Sensitive	Endangered	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Calidris ferruginea	Curlew Sandpiper	Endangered	Not Sensitive	Critically Endangered	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Calidris melanotos	Pectoral Sandpiper	Not Listed	Not Sensitive	Not Listed	ROKAMBA;JAMBA
Animalia	Aves	Calidris ruficollis	Red-necked Stint	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Calidris tenuirostris	Great Knot	Vulnerable	Not Sensitive	Critically Endangered	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Callocephalon fimbriatum	Gang-gang Cockatoo	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Calyptorhynchus banksii samueli	Red-tailed Black-Cockatoo (inland subspecies)	Vulnerable	Category 2	Not Listed	
Animalia	Aves	Calyptorhynchus lathami	Glossy Black-Cockatoo	Vulnerable	Category 2	Not Listed	
Animalia	Aves	Certhionyx variegatus	Pied Honeyeater	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Charadrius leschenaultii	Greater Sand-plover	Vulnerable	Not Sensitive	Vulnerable	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Charadrius mongolus	Lesser Sand-plover	Vulnerable	Not Sensitive	Endangered	ROKAMBA;CAMBA; JAMBA

Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Animalia	Aves	Chlidonias leucopterus	White-winged Black Tern	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Circus assimilis	Spotted Harrier	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Climacteris picumnus victoriae	Brown Treecreeper (eastern subspecies)	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Cuculus optatus	Oriental Cuckoo	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Daphoenositta chrysoptera	Varied Sittella	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Diomedea exulans	Wandering Albatross	Endangered	Not Sensitive	Endangered	
Animalia	Aves	Ephippiorhynchus asiaticus	Black-necked Stork	Endangered	Not Sensitive	Not Listed	
Animalia	Aves	Epthianura albifrons	White-fronted Chat	Endangered Population, Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Erythrotriorchis radiatus	Red Goshawk	Critically Endangered	Category 2	Vulnerable	
Animalia	Aves	Falco hypoleucos	Grey Falcon	Endangered	Category 2	Not Listed	
Animalia	Aves	Falco subniger	Black Falcon	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Gallinago hardwickii	Latham's Snipe	Not Listed	Not Sensitive	Not Listed	ROKAMBA;JAMBA
Animalia	Aves	Gelochelidon nilotica	Gull-billed Tern	Not Listed	Not Sensitive	Not Listed	CAMBA
Animalia	Aves	Glossopsitta pusilla	Little Lorikeet	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Grantiella picta	Painted Honeyeater	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Aves	Haematopus fuliginosus	Sooty Oystercatcher	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Haematopus longirostris	Pied Oystercatcher	Endangered	Not Sensitive	Not Listed	
Animalia	Aves	Haliaeetus leucogaster	White-bellied Sea-Eagle	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Hieraaetus morphnoides	Little Eagle	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Hirundapus caudacutus	White-throated Needletail	Not Listed	Not Sensitive	Vulnerable	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Hydroprogne caspia	Caspian Tern	Not Listed	Not Sensitive	Not Listed	JAMBA
Animalia	Aves	Ixobrychus flavicollis	Black Bittern	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Lathamus discolor	Swift Parrot	Endangered	Category 3	Critically Endangered	
Animalia	Aves	Limicola falcinellus	Broad-billed Sandpiper	Vulnerable	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Limosa lapponica	Bar-tailed Godwit	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Limosa limosa	Black-tailed Godwit	Vulnerable	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Lophochroa leadbeateri	Major Mitchell's Cockatoo	Vulnerable	Category 2	Not Listed	
Animalia	Aves	Lophoictinia isura	Square-tailed Kite	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Manorina melanotis	Black-eared Miner	Critically Endangered	Not Sensitive	Endangered	
Animalia	Aves	Motacilla flava	Yellow Wagtail	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Neophema pulchella	Turquoise Parrot	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Nettapus coromandelianus	Cotton Pygmy-Goose	Endangered	Not Sensitive	Not Listed	
Animalia	Aves	Ninox connivens	Barking Owl	Vulnerable	Category 3	Not Listed	

Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Animalia	Aves	Ninox strenua	Powerful Owl	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Numenius madagascariensis	Eastern Curlew	Not Listed	Not Sensitive	Critically Endangered	ROKAMBA;CAMBA;JAMBA
Animalia	Aves	Numenius minutus	Little Curlew	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA;JAMBA
Animalia	Aves	Numenius phaeopus	Whimbrel	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA;JAMBA
Animalia	Aves	Onychoprion fuscata	Sooty Tern	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Oxyura australis	Blue-billed Duck	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Pandion cristatus	Eastern Osprey	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Petroica boodang	Scarlet Robin	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Petroica phoenicea	Flame Robin	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Philomachus pugnax	Ruff	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA;JAMBA
Animalia	Aves	Pluvialis fulva	Pacific Golden Plover	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA;JAMBA
Animalia	Aves	Pluvialis squatarola	Grey Plover	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA;JAMBA
Animalia	Aves	Polytelis anthopeplus monarchoides	Regent Parrot (eastern subspecies)	Endangered	Category 3	Vulnerable	
Animalia	Aves	Polytelis swainsonii	Superb Parrot	Vulnerable	Category 3	Vulnerable	
Animalia	Aves	Pterodroma leucoptera leucoptera	Gould's Petrel	Vulnerable	Not Sensitive	Endangered	
Animalia	Aves	Pterodroma nigripennis	Black-winged Petrel	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Pterodroma solandri	Providence Petrel	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Ptilinopus regina	Rose-crowned Fruit-Dove	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Ptilinopus superbus	Superb Fruit-Dove	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Rostratula australis	Australian Painted Snipe	Endangered	Not Sensitive	Endangered	
Animalia	Aves	Stagonopleura guttata	Diamond Firetail	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Sterna hirundo	Common Tern	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA;JAMBA
Animalia	Aves	Sternula albifrons	Little Tern	Endangered	Not Sensitive	Not Listed	ROKAMBA;CAMBA;JAMBA
Animalia	Aves	Stictonetta naevosa	Freckled Duck	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Sula dactylatra	Masked Booby	Vulnerable	Not Sensitive	Not Listed	ROKAMBA;JAMBA
Animalia	Aves	Thalassarche melanophris	Black-browed Albatross	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Aves	Thalasseus bergii	Crested Tern	Not Listed	Not Sensitive	Not Listed	JAMBA
Animalia	Aves	Tringa brevipes	Grey-tailed Tattler	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA;JAMBA
Animalia	Aves	Tringa glareola	Wood Sandpiper	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA;JAMBA
Animalia	Aves	Tringa nebularia	Common Greenshank	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA;JAMBA
Animalia	Aves	Tringa stagnatilis	Marsh Sandpiper	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA;JAMBA
Animalia	Aves	Tyto longimembris	Eastern Grass Owl	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Tyto novaehollandiae	Masked Owl	Vulnerable	Category 3	Not Listed	

Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Animalia	Aves	Tyto tenebricosa	Sooty Owl	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Xenus cinereus	Terek Sandpiper	Vulnerable	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Gastropoda	Meridolum corneovirens	Cumberland Plain Land Snail	Endangered	Not Sensitive	Not Listed	
Animalia	Insecta	Petalura gigantea	Giant Dragonfly	Endangered	Not Sensitive	Not Listed	
Animalia	Mammalia	Arctocephalus pusillus doriferus	Australian Fur-seal	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Cercartetus nanus	Eastern Pygmy-possum	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Chalinolobus dwyeri	Large-eared Pied Bat	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Mammalia	Dasyurus maculatus	Spotted-tailed Quoll	Vulnerable	Not Sensitive	Endangered	
Animalia	Mammalia	Dasyurus viverrinus	Eastern Quoll	Endangered	Not Sensitive	Endangered	
Animalia	Mammalia	Eubalaena australis	Southern Right Whale	Endangered	Not Sensitive	Endangered	
Animalia	Mammalia	Falsistrellus tasmaniensis	Eastern False Pipistrelle	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Megaptera novaeangliae	Humpback Whale	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Mammalia	Micronomus norfolkensis	Eastern Coastal Free-tailed Bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Miniopterus australis	Little Bent-winged Bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Miniopterus orianae oceanensis	Large Bent-winged Bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Myotis macropus	Southern Myotis	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Perameles nasuta	Long-nosed Bandicoot	Endangered Population	Not Sensitive	Not Listed	
Animalia	Mammalia	Petauroides volans	Greater Glider	Not Listed	Not Sensitive	Vulnerable	
Animalia	Mammalia	Petaurus australis	Yellow-bellied Glider	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Phascogale tapoatafa	Brush-tailed Phascogale	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Phascolarctos cinereus	Koala	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Mammalia	Pseudomys gracilicaudatus	Eastern Chestnut Mouse	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Pteropus poliocephalus	Grey-headed Flying-fox	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Mammalia	Saccolaimus flaviventris	Yellow-bellied Sheathtail-bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Scoteanax rueppellii	Greater Broad-nosed Bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Vespadelus troughtoni	Eastern Cave Bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Reptilia	Aspidites ramsayi	Woma	Vulnerable	Not Sensitive	Not Listed	
Animalia	Reptilia	Caretta caretta	Loggerhead Turtle	Endangered	Not Sensitive	Endangered	
Animalia	Reptilia	Chelonia mydas	Green Turtle	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Reptilia	Tiliqua occipitalis	Western Blue-tongued Lizard	Vulnerable	Not Sensitive	Not Listed	
Fungi	Flora	Camarophyllopsis kearneyi		Endangered	Not Sensitive	Not Listed	
Fungi	Flora	Hygrocybe anomala var. ianthinomarginata		Vulnerable	Not Sensitive	Not Listed	
Fungi	Flora	Hygrocybe aurantipes		Vulnerable	Not Sensitive	Not Listed	
Fungi	Flora	Hygrocybe austropratensis		Endangered	Not Sensitive	Not Listed	

Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Fungi	Flora	Hygrocybe collucera		Endangered	Not Sensitive	Not Listed	
Fungi	Flora	Hygrocybe griseoramosa		Endangered	Not Sensitive	Not Listed	
Fungi	Flora	Hygrocybe lanecovensis		Endangered	Not Sensitive	Not Listed	
Fungi	Flora	Hygrocybe reesiae		Vulnerable	Not Sensitive	Not Listed	
Fungi	Flora	Hygrocybe rubronivea		Vulnerable	Not Sensitive	Not Listed	
Plantae	Flora	Acacia bynoeana	Bynoe's Wattle	Endangered	Not Sensitive	Vulnerable	
Plantae	Flora	Acacia clunies-rossiae	Kanangra Wattle	Vulnerable	Not Sensitive	Not Listed	
Plantae	Flora	Acacia prominens	Gosford Wattle	Endangered Population	Not Sensitive	Not Listed	
Plantae	Flora	Acacia pubescens	Downy Wattle	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Acacia terminalis subsp. Eastern Sydney	Sunshine wattle	Endangered	Not Sensitive	Endangered	
Plantae	Flora	Caladenia tessellata	Thick Lip Spider Orchid	Endangered	Category 2	Vulnerable	
Plantae	Flora	Callistemon linearifolius	Netted Bottle Brush	Vulnerable	Category 3	Not Listed	
Plantae	Flora	Darwinia biflora		Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Dillwynia tenuifolia		Vulnerable	Not Sensitive	Not Listed	
Plantae	Flora	Epacris purpurascens var. purpurascens		Vulnerable	Not Sensitive	Not Listed	
Plantae	Flora	Epacris sparsa	Sparse Heath	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Eucalyptus leucoxylon subsp. pruinosa	Yellow Gum	Vulnerable	Not Sensitive	Not Listed	
Plantae	Flora	Eucalyptus nicholii	Narrow-leaved Black Peppermint	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Eucalyptus pulverulenta	Silver-leafed Gum	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Eucalyptus scoparia	Wallangarra White Gum	Endangered	Not Sensitive	Vulnerable	
Plantae	Flora	Genoplesium baueri	Bauer's Midge Orchid	Endangered	Category 2	Endangered	
Plantae	Flora	Grevillea beadleana	Beadle's Grevillea	Endangered	Category 3	Endangered	
Plantae	Flora	Hibbertia spanantha	Julian's Hibbertia	Critically Endangered	Category 2	Critically Endangered	
Plantae	Flora	Isotoma fluviatilis subsp. fluviatilis		Not Listed	Not Sensitive	Extinct	
Plantae	Flora	Leptospermum deanei		Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Macadamia integrifolia	Macadamia Nut	Not Listed	Not Sensitive	Vulnerable	
Plantae	Flora	Macadamia tetraphylla	Rough-shelled Bush Nut	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Melaleuca deanei	Deane's Paperbark	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Persoonia hirsuta	Hairy Geebung	Endangered	Category 3	Endangered	
Plantae	Flora	Pimelea curviflora var. curviflora		Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Pomaderris prunifolia	Plum-leaf Pomaderris	Endangered Population	Not Sensitive	Not Listed	
Plantae	Flora	Prostanthera marifolia	Seaforth Mintbush	Critically Endangered	Category 3	Critically Endangered	
Plantae	Flora	Pultenaea pedunculata	Matted Bush-pea	Endangered	Not Sensitive	Not Listed	

Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Plantae	Flora	Rhodamnia rubescens	Scrub Turpentine	Critically Endangered	Not Sensitive	Critically Endangered	
Plantae	Flora	Syzygium paniculatum	Magenta Lilly Pilly	Endangered	Not Sensitive	Vulnerable	
Plantae	Flora	Tetratheca glandulosa		Vulnerable	Not Sensitive	Not Listed	
Plantae	Flora	Tetratheca juncea	Black-eyed Susan	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Wahlenbergia multicaulis	Tadgell's Bluebell	Endangered Population	Not Sensitive	Not Listed	
Plantae	Flora	Wilsonia backhousei	Narrow-leafed Wilsonia	Vulnerable	Not Sensitive	Not Listed	
Plantae	Flora	Zannichellia palustris		Endangered	Not Sensitive	Not Listed	

Data does not include NSW category 1 sensitive species.

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Road Match	Georeferenced to a road or rail corridor
Road Intersection	Georeferenced to a road intersection
Buffered Point	A point feature buffered to x metres
Adjacent Match	Land adjacent to a georeferenced feature
Network of Features	Georeferenced to a network of features
Suburb Match	Georeferenced to a suburb boundary
As Supplied	Spatial data supplied by provider

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APPENDIX H EIL CALCULATIONS

NEPC
National Environment Protection Council

Ecological Investigation Level Calculation Spreadsheet

Developed by CSIRO for the National Environment Protection Council

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Instructions on how to use the Ecological Investigation Level Calculation Spreadsheet

1. Select the ‘Data input and EILs’ worksheet.
2. Within the ‘Inputs’ box click on the cell containing the name of a contaminant (cell B5) and a drop-down menu symbol will appear. Click on the drop-down menu symbol and select the contaminant appropriate to your investigation. The name of the selected contaminant will then automatically appear in the contaminant cell (B5).
3. Depending on the contaminant selected in step 2 the ‘Inputs’ box will be modified.
4. In the cases of arsenic, DDT, lead and naphthalene being selected the ‘Inputs’ box will be cleared of all other cells and no further information is required. The EILs for fresh (present in soil for < 2 years) and aged (present in soil for ≥ 2 years) contamination for these contaminants in the three land-uses are presented in the ‘Outputs’ box.
5. When chromium (III), copper, nickel, or zinc is selected then other cells within the ‘Inputs’ box will appear and each of these cells require information to be added.
6. To obtain EILs for fresh copper contamination you will need to enter a value for the cation exchange capacity, soil pH, soil organic carbon content and either the measured background concentration or the soil iron content. If you do not enter a value into all the necessary cells then a fresh EIL can not be calculated and '# Num!' will appear in the EIL output cells. To obtain EILs for aged copper contamination you will need to enter a value for cation exchange capacity, soil pH, soil organic carbon content and either the measured background concentration or the name of the state where the site is located (or the nearest state) and whether the traffic volume is high or low. If you do not enter a value into all the necessary cells then an aged EIL can not be calculated and '# Num!' will appear in the EIL output cells. After you have entered each value press the ‘enter’ button. If you do not have a measured background concentration ensure that this cell (B16) is empty (not having a number, including 0). This cell can be emptied by using the 'delete' or 'backspace' keys. Do not use any other buttons to clear the cells.
7. To obtain EILs for fresh nickel contamination you will need to enter a value for the cation exchange capacity and either a measured background concentration or the soil iron content. If you do not enter a value into all the necessary cells then a fresh EIL can not be calculated and '# Num!' will appear in the EIL output cells. To obtain EILs for aged nickel contamination you will need to enter a value for the cation exchange capacity and either a measured background concentration or the name of the state where the site is located (or the nearest state) and whether the traffic volume is high or low. If you do not enter a value into all the necessary cells then an aged EIL can not be calculated and '# Num!' will appear in the EIL output cells. After you have entered each value press the ‘enter’ button. If you do not have a measured background concentration ensure that this cell (B16) is empty (not having a number, including 0). This cell can be emptied by using the 'delete' or 'backspace' keys. Do not use any other buttons to clear the cells.
8. To obtain EILs for fresh chromium III contamination you will need to enter a value for the soil clay content and either a measured background concentration or the soil iron content. If you do not enter a value into all the necessary cells then a fresh EIL can not be calculated and '# Num!' will appear in the EIL output cells. To obtain EILs for aged chromium III contamination you will need to enter a value for the soil clay content and either a measured background concentration or the name of the state where the site is located (or the nearest state) and whether the traffic volume is high or low. If you do not enter a value into all the necessary cells then an aged EIL can not be calculated and '# Num!' will appear in the EIL output cells. After you have entered each value press the ‘enter’ button. After you have entered each value press the ‘enter’ button. If you do not have a measured background concentration ensure that this cell (B16) is empty (not having a number, including 0). This cell can be emptied by using the 'delete' or 'backspace' keys. Do not use any other buttons to clear the cells.
9. To obtain EILs for fresh zinc contamination you will need to enter a value for the cation exchange capacity, soil pH and either a measured background concentration or the soil iron content. If you do not enter a value into all the necessary cells then a fresh EIL can not be calculated and '# Num!' will appear in the EIL output cells. To obtain EILs for aged zinc contamination you will need to enter a value for cation exchange capacity, soil pH and either a measured background concentration or the name of the state where the site is located (or the nearest state) and whether the traffic volume is high or low. If you do not enter a value into all the necessary cells then an aged EIL can not be calculated and '# Num!' will appear in the EIL output cells. After you have entered each value press the ‘enter’ button. If you do not have a measured background concentration ensure that this cell (B16) is empty (not having a number, including 0). This cell can be emptied by using the 'delete' or 'backspace' keys. Do not use any other buttons to clear the cells.

Background information on the EIL Calculation Spreadsheet

This spreadsheet is to be used to calculate the Ecological Investigation Levels (EILs) that are to be used in the National Environment Protection (Assessment of Site Contamination) Measure when assessing a contaminated site. The EILs are numerical limits that are designed to protect soil and terrestrial flora and fauna (including pets and wildlife) and soil microbial processes from experiencing substantial deleterious effects caused by contaminants. Ecological Investigation Levels are the ecological equivalents of the investigation levels that aim to protect human health (HILs) and groundwater (GILs). Measured concentrations of contaminants in the soil at a site are compared to the appropriate EILs and if they exceed the EILs then further investigation in the form of an ecological risk assessment that conforms to Schedule B5a (NEPC, 2011) should be conducted.

This spreadsheet uses the methodology set out in Heemsbergen et al. (2008) and Schedule B(5)b (NEPC, 2011) to calculate EILs for contaminated sites that have three land-uses: (1) national parks and areas of high conservation value; (2) urban residential and open public space; and (3) commercial and industrial land.

The toxicity data used and the actual calculations of the EILs for arsenic, chromium III, copper, DDT, lead, naphthalene, nickel and zinc are presented in Warne et al (2009) and Schedule B(5)c (NEPC, 2010). However, it should be noted that the example EIL values presented in Warne et al. (2009) have been rounded off during their calculation and therefore the values presented in that report will not match exactly with those derived by the EIL calculation spreadsheet. The EIL values calculated by the spreadsheet ALWAYS take precedence over those presented in Warne et al. (2009).
The method for deriving the EILs was developed in order to overcome all of the major limitations of the previous EILs (NEPM, 1999). The exact method used to calculate each EIL varied according to

(1) the physicochemical properties of the contaminant – which modified the key exposure pathways that were considered;

(2) whether the toxicity data could be expressed in terms of added contaminant concentrations (obtained by subtracting the background concentration from the total contaminant concentration). When such data were available a limit of how much contaminant could be added to soil before ecotoxicological effects commenced was determined – termed the Added Contaminant Level (ACL). Either a measured or predicted ambient background concentration (ABC) was then added to the ACL to obtain the EIL (see below)

EIL = ACL + ABC

The advantage of this 'added risk' method is that the EILs can never be less than the ambient background concentration.

When the toxicity data could not be expressed in terms of added concentration then the EIL was expressed as a total concentration, and it does not consider the ambient background concentration at the site.

(3) whether high quality empirical relationships were available that could predict the toxicity of contaminants using soil physicochemical properties. When these were available soil-specific EILs could be derived (where soils with different properties will have their own unique EIL). When these relationships were not available generic EILs (where a single numerical EIL applies to all Australian soils of a particular land-use) were derived.

(4) whether an ageing leaching factor (ALF) was available. The vast majority of toxicity data is derived from laboratory-based experiments that use freshly spiked contaminants. The two characteristics that differ between such laboratory experiments and field-based experiments are ageing and leaching of contaminants. Toxicity data from laboratory-based experiments were used to derive EILs for fresh contamination (i.e. when the contaminant has been present in the soil for less than 2 years). When ALFs were available they were used to adjust laboratory-based toxicity data to field-based data that was combined with actual field data to derive EILs for aged contamination (i.e. where the contaminant has been present in the soil for 2 or more years).

References

Heemsbergen D, Warne MStJ, McLaughlin MJ, Kookana R. 2008. A Proposed Australian Methodology to Derive Ecological Investigation Levels in Contaminated Soils. CLW Science Report. Prepared for the NEPM Review Team. 76p.

NEPC (National Environment Protection Council). 1999. National Environment Protection (Assessment of Site Contamination) Measure 1999. Schedule B(1) Guideline on the Investigation Levels for Soil and Groundwater. NEPC, Adelaide, Australia.16p.

NEPC (National Environment Protection Council). 2011. National Environment Protection (Assessment of Site Contamination) Measure. Schedule B(5)a. Guideline on Risk Assessment. National Environment Protection Council, Adelaide, South Australia. 42p.

NEPC (National Environment Protection Council). 2011. National Environment Protection (Assessment of Site Contamination) Measure. Schedule B(5)b. Guidelines on the Australian methodology to derive Ecological Investigation Levels in contaminated soils. National Environment Protection Council, Adelaide, South Australia. 85p.

NEPC (National Environment Protection Council). 2011. National Environment Protection (Assessment of Site Contamination) Measure. Schedule B(5)c. Soil quality guidelines for arsenic, chromium III, copper, DDT, lead, naphthalene, nickel and zinc. National Environment Protection Council, Adelaide, South Australia. 185p.

Background information on the EIL Calculation Spreadsheet

Warne MStJ, Heemsbergen DA, McLaughlin MJ, Kookana RS. 2009. Proposed soil quality guidelines for arsenic, chromium (III), copper, DDT, lead, naphthalene, nickel and zinc. CSIRO Land and Water Science Report 44/09. 195p.

Inputs
Select contaminant from list below
Pb
Below needed to calculate fresh and aged ACLs
Below needed to calculate fresh and aged ABCs
or for fresh ABCs only
or for aged ABCs only

Outputs		
Land use	Lead generic EILs (mg contaminant/kg dry soil)	
	Fresh	Aged
National parks and areas of high conservation value	110	470
Urban residential and open public spaces	270	1100
Commercial and industrial	440	1800

CERTIFICATE OF ANALYSIS

Work Order	: **ES2203509**	Page	: 1 of 3
Client	: **ENVIRONMENTAL RESOURCES MANAGEMENT (ERM)**	Laboratory	: Environmental Division Sydney
Contact	: MS JESSICA LAWRENCE	Contact	: Customer Services ES
Address	: LEVEL 15 309 KENT STREET SYDNEY NSW AUSTRALIA 2000	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: +61 02 8584 8888	Telephone	: +61-2-8784 8555
Project	: 0577577-Burwood	Date Samples Received	: 02-Feb-2022 13:18
Order number	: ----	Date Analysis Commenced	: 03-Feb-2022
C-O-C number	: ----	Issue Date	: 09-Feb-2022 10:28
Sampler	: MADUSHANI BOLONGHE		
Site	: ----		
Quote number	: EN/114		
No. of samples received	: 4		
No. of samples analysed	: 4		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Aleksandar Vujkovic	Laboratory Technician	Newcastle - Inorganics, Mayfield West, NSW
Ankit Joshi	Inorganic Chemist	Sydney Inorganics, Smithfield, NSW
Dian Dao	Senior Chemist - Inorganics	Sydney Inorganics, Smithfield, NSW

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- ALS is not NATA accredited for the analysis of Exchangeable Cations on Alkaline Soils when performed under ALS Method ED006.
- ED007 and ED008: When Exchangeable Al is reported from these methods, it should be noted that Rayment & Lyons (2011) suggests Exchange Acidity by 1M KCl - Method 15G1 (ED005) is a more suitable method for the determination of exchange acidity (H+ + Al3+).

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH121_0.16	BUR_BH124_0.15	BUR_BH122_0.7	BUR_BH123_1.0	----
			Sampling date / time	18-Jan-2022 00:00	18-Jan-2022 00:00	18-Jan-2022 00:00	18-Jan-2022 00:00	----
Compound	CAS Number	LOR	Unit	ES2203509-001	ES2203509-002	ES2203509-003	ES2203509-004	--------
				Result	Result	Result	Result	----
EA002: pH 1:5 (Soils)								
pH Value	----	0.1	pH Unit	**9.2**	**9.4**	**5.3**	**5.1**	**----**
EA150: Soil Classification based on Particle Size								
Clay (<2 µm)	----	1	%	**13**	**8**	**----**	**----**	**----**
EA152: Soil Particle Density								
Soil Particle Density (Clay/Silt/Sand)	----	0.01	g/cm3	**2.64**	**2.70**	**----**	**----**	**----**
ED006: Exchangeable Cations on Alkaline Soils								
Exchangeable Calcium	----	0.2	meq/100g	**4.9**	**7.4**	**----**	**----**	**----**
Exchangeable Magnesium	----	0.2	meq/100g	<0.2	<0.2	**----**	**----**	**----**
Exchangeable Potassium	----	0.2	meq/100g	**0.4**	**1.0**	**----**	**----**	**----**
Exchangeable Sodium	----	0.2	meq/100g	<0.2	**0.2**	**----**	**----**	**----**
Cation Exchange Capacity	----	0.2	meq/100g	**5.3**	**8.6**	**----**	**----**	**----**
Exchangeable Sodium Percent	----	0.2	%	<0.2	**2.8**	**----**	**----**	**----**
ED007: Exchangeable Cations								
Exchangeable Calcium	----	0.1	meq/100g	**----**	**----**	**4.9**	**4.8**	**----**
Exchangeable Magnesium	----	0.1	meq/100g	**----**	**----**	**1.0**	**2.5**	**----**
Exchangeable Potassium	----	0.1	meq/100g	**----**	**----**	**0.3**	**0.5**	**----**
Exchangeable Sodium	----	0.1	meq/100g	**----**	**----**	**0.3**	**0.5**	**----**
Cation Exchange Capacity	----	0.1	meq/100g	**----**	**----**	**6.5**	**8.9**	**----**
Exchangeable Sodium Percent	----	0.1	%	**----**	**----**	**4.4**	**5.9**	**----**
EP004: Organic Matter								
Total Organic Carbon	----	0.5	%	<0.5	<0.5	<0.5	<0.5	**----**

Inter-Laboratory Testing

Analysis conducted by ALS Newcastle, NATA accreditation no. 825, site no. 1656 (Chemistry) 9854 (Biology).

(SOIL) EA150: Soil Classification based on Particle Size

(SOIL) EA152: Soil Particle Density

APPENDIX I HISTORICAL DATA

Table 4-9: Summary of detected analytical groundwater results

Jacobs TYPSA

			Major Ions									Ionic Balance		Alkalinity		Inorganics						Metals								
			Ferrous Iron (filtered) mg/L	Iron (filtered) mg/L	Sodium (Filtered) mg/L	Potassium (filtered) mg/L	Calcium (Filtered) mg/L	Magnesium (Filtered) mg/L	Chloride mg/L	Fluoride mg/L	Sulphate (as SO4) (filtered) mg/L	Total Anions (meq/L)	Total Cations (meq/L)	Bicarbonate Alkalinity (as CaCO3) mg/L	Total Alkalinity (as CaCO3) mg/L	Nitrate (as N) mg/L	Nitrite (as N) mg/L	Ammonia (as N) mg/L	Total Kjeldahl Nitrogen (as N) mg/L	Nitrogen (Total) mg/L	Total Phosphorus (as P) mg/L	Arsenic (Filtered) µg/L	Barium (Total) µg/L	Cadmium (Filtered) µg/L	Chromium (Filtered) µg/L	Copper (Filtered) µg/L	Cobalt (Filtered) µg/L	Lead (Filtered) µg/L	Maganese (Filtered) µg/L	Nickel (Filtered) µg/L
NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusion, Sand																														
Recreation and Aesthetics (exc. PFAS)											999					110[2]						100[3]		20[3]	500[4]	20000[5]		100[3]	5000[3]	200[3]
Structural Impacts (Mild Upper Limits)									5999[6]		999[7]																			
ANZG (2018) Freshwater 95% LOSP Toxicant DGVs																		0.91				13		0.2	1	1.4		3.4	1900	11
NEMP 2020 PFAS Ecological Freshwater Water 99% Protection																														
Sample Point	**Location**	**Sample Date**																												
SMW_BH712	Crossover cavern northern boundary	25/03/2021		0.17	9	2	14		9	0.7	9			29	29	0.06		0.04	0.5	0.6		3			1	2			8	2
SMW_BH713	Station box northern boundary	1/04/2021		1.16	2400	47	143	220	4320	0.7	287			826	826			0.76				3					2		249	2
SMW_BH713s		25/03/2021			139	2	2	2	56		226	6.56	6.36	14	14	0.61			0.3	0.9	0.09			0.2		7	7		253	6
SMW_BH715	12 m north of Station box	25/03/2021		0.15	783	46	143	35	1330	0.6	644			177	177	0.13		0.06	1.3	1.4	0.13	1			21	2	4	7	34	3
SMW_BH715s		25/03/2021		2.84	860	8	24	43	1120	0.4	573			89	89	1.92	0.13	0.13	0.8	2.8	0.23					1	19		899	22
SMW_BH714	16 m south of Station box on Great Western Highway	19/03/2021			1240	23	63	97	1560	2.1	476			597	597	0.06		0.2	0.2	0.3	0.01				2	4	12		919	17
SMW_BH714s		19/03/2021		0.07	159	4	3	4	46	1.4	95			247	247	0.02		0.03	0.2	0.2	0.15	1		0.3		10	41		648	40
SMW_BH046	35 m north-east of Station box	18/09/2018		2.3	1600	26	121	182	3040	0.9	456			544	544			0.22	1.1	1.1	0.3	1					3		531	4
SMW_BH046s		Well was dry on 18/09/2018																												
SMW_BH044	48 m north-east of Crossover cavern	20/09/2018		0.39	1820	30	81	147	2690	0.5	458			954	954	0.4		1.3	1.3	1.3	0.02	2							64	2
R255_10_BH4	280 m east of Station box	15/11/2004		5.5				207	3,150		244				288	0.09		1.87			0.05	1	79	2	10	38		19	366	51
R720_LSJH-TC-BH411-1	99 m south of Station box	19/10/2015			594	12	30	32	539		323	28	30.3	304	304											8			837	53
R720_LSJH-TC-BH411-2		19/10/2015	0.1		2,000	33	143	224	3,240		343	109	109	522	522											9			566	129
R718_BH1326	326 m south-east of Station box	4/11/2014																				3		0.2		2				42
R718_BH1333	18 m south-east of Station box	4/11/2014																						0.2		1				12
R718_BH1331	5 m north of Southern entry shaft	4/11/2014																				3								6
R718_BH1336	82 m south-east of Station box	4/11/2014																								2				2

#1 To obtain F2 subtract napthalene from the >C10 - C16 fraction.
#2 NHMRC (2011) - Health. Converted from guideline for nitrate (as nitrate). Multiplied by a factor of x10
#4 NHMRC (2011) - Health. Guideline for Cr (VI) conservatively adopted for comparison to total chromium. Speciated analysis should be undertaken where guideline is
#5 NHMRC (2011) - Health
#6 AS 2159-2009 Exposure Classfication for Concrete Piles in Groundwater (Soil Condition A). <6000 mg/L equates to 'mild' classification.
#7 AS 2159-2009 Exposure Classfication for Concrete Piles in Groundwater (Soil Condition A). <1000 mg/L sulphate equates to 'mild' classification.
#8 PFAS NEMP 2.0, Table 1. Human health guideline values developed by health

Table 4-9: Summary of detected analytical groundwater results

					Pesticides		VOCs	TRH							BTEX		PFAS				
			Vanadium (Total) µg/L	Zinc (Filtered) µg/L	Chlorfenvinphos E µg/L	Chlorfenvinphos Z µg/L	Bis(2-ethylhexyl)phthalate µg/L	TRH >C10-C16 minus Napthalene (F2) mg/L	TRH >C10-C16 Fraction mg/L	TRH >C16-C34 Fraction F3 mg/L	TRH >C34-C40 Fraction F4 mg/L	TRH+C10-C40 (Sum of Total) mg/L	TRH C15 - C28 Fraction mg/L	TRH+C10 - C36 (Sum of total) mg/L	Toluene µg/L	Total BTEX µg/L	Perfluorobutane Sulfonic acid (PFBS) µg/L	Perfluorohexane sulfonic acid (PFHxS) µg/L	Perfluorooctanoic acid (PFOA) µg/L	Sum of PFAS µg/L	Sum of PFHxS and PFOS µg/L
NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusion, Sand															NL						
Recreation and Aesthetics (exc. PFAS)															800[5]	600[5]			10[8]		2[8]
Structural Impacts (Mild Upper Limits)																					
ANZG (2018) Freshwater 95% LOSP Toxicant DGVs			6	8			1								180						
NEMP 2020 PFAS Ecological Freshwater Water 99% Protection																			19		
Sample Point	**Location**	**Sample Date**																			
SMW_BH712	Crossover cavern northern boundary	25/03/2021																			
SMW_BH713	Station box northern boundary	1/04/2021								530		560	560	560							
SMW_BH713s		25/03/2021		52																	
SMW_BH715	12 m north of Station box	25/03/2021		7						260		260	280	280			0.03	0.02	0.02	0.07	
SMW_BH715s		25/03/2021		67															0.01	0.01	
SMW_BH714	16 m south of Station box on Great Western Highway	19/03/2021		15											<2-2	2					
SMW_BH714s		19/03/2021		44																	
SMW_BH046	35 m north-east of Station box	18/09/2018																			
SMW_BH046s		Well was dry on 18/09/2018																			
SMW_BH044	48 m north-east of Crossover cavern	20/09/2018																			
R255_10_BH4	280 m east of Station box	15/11/2004	70	144	4.5	4.5	48														
R720_LSJH-TC-BH411-1	99 m south of Station box	19/10/2015		20																	
R720_LSJH-TC-BH411-2		19/10/2015		28																	
R718_BH1326	326 m south-east of Station box	4/11/2014		14				0.11	0.11	0.18	0.2		0.17								
R718_BH1333	18 m south-east of Station box	4/11/2014		59																	
R718_BH1331	5 m north of Southern entry shaft	4/11/2014		14																	
R718_BH1336	82 m south-east of Station box	4/11/2014		11																	

#1 To obtain F2 subtract napthalene from the >C10 - C16 fraction.
#2 NHMRC (2011) - Health. Converted from guideline for nitrate (as nitrate). Multiplied by a factor of x10
#4 NHMRC (2011) - Health. Guideline for Cr (VI) conservatively adopted for comparison to total chromium. Speciated analysis should be undertaken where guideline is
#5 NHMRC (2011) - Health
#6 AS 2159-2009 Exposure Classfication for Concrete Piles in Groundwater (Soil Condition A). <6000 mg/L equates to 'mild' classification.
#7 AS 2159-2009 Exposure Classfication for Concrete Piles in Groundwater (Soil Condition A). <1000 mg/L sulphate equates to 'mild' classification.
#8 PFAS NEMP 2.0, Table 1. Human health guideline values developed by health

Table 4-6: Summary of detected analytical soil results

					Metals										TRH				PAHs															
					Arsenic (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Lead TCLP (mg/L)	Mercury (mg/kg)	Nickel (mg/kg)	Nickel TCLP (mg/L)	Zinc (mg/kg)	TRH C15-C28 (mg/kg)	TRH C29-C36 (mg/kg)	TRH C16-C34 (mg/kg)	TRH C34-C40 (mg/kg)	Fluoranthene (mg/kg)	Pyrene (mg/kg)	Chrysene (mg/kg)	Benzo(a)anthracene (mg/kg)	Benzo(b,k+k)fluoranthene (mg/kg)	Benzo(g,h,i)perylene (mg/kg)	Indeno(1,2,3-c,d)pyrene (mg/kg)	Benzo(b+j)fluoranthene (mg/kg)	Benzo(a)pyrene (mg/kg)	Phenanthrene	Anthracene (mg/kg)	Sum of PAH (mg/kg)	Benzo(a)pyrene TEQ (zero) (mg/kg)	Benzo(a)pyrene TEQ (half LOR) (mg/kg)	Benzo(a)pyrene TEQ (LOR) (mg/kg)
HIL D, Table 1A(1) NEPC 2013					3000	900	3600	240000	1500		730	6000		400000			27000[1]	38000[1]												4000[1]				
EILs, ESLs, Commercial and industrial NEPC 2013					160[4]		310[4]	85[4]	1800[4]			55[4]		110[4]																				1.4[5]
NSW 2014 General Solid Waste (CT1)					100	20	100		100		4	40														10			200				
NSW 2014 Restricted Solid Waste (CT2)					400	80	400		400		16	160														40			800				
NSW 2014 General Solid Waste SCC1									1500			1050																					
NSW 2014 General Solid Waste TCLP1										5			2																					
National ASS Guidelines 2018																																		
Sample Point	**Location**	**Sample Date**	**Sample ID**	**Depth (mbgl)**																														
SMW_BH713	Station box northern boundary	26/10/2020	SMW_BH713/0.4-0.5	0.4-0.5	10		28	39	89		0.2	7		96					0.9	1						0.6	0.6			3.1	0.7	1	1.3
SMW_BH714	16 m south of Station box on Great Western Highway	16/11/2020	SMW_BH714/0.5-0.6	0.5-0.6	15		47	16	44			10		19																				
SMW_BH715	12 m north of Station box	22/09/2020	SMW_BH715/0.2	0.2			4	10	23			11		34																				
			SMW_BH715/0.5	0.5																														
			SMW_BH715/1.3	1.3	9		5	10	11																									
SMW_BH716	19 m south of Station box in cross passage footprint	6/11/2020	BH716_0.4-0.5	0.4-0.5	11		22	12	22			2																						
SMW_BH046	35 m north-east of Station box	30/04/2018	BH046_0.50-0.60	0.50-0.60	5		21	8	19			4																						
			BH046_1.50-1.95	1.50-1.95	8		7	10	16																									
R718_BH1326	326 m south-east of Station box	29/09/2014	BH1326_0.2-0.3	0.2-0.3																														
			BH1326_0.5-0.6	0.5-0.6	5		26	8	23			4		39																				
			BH1326_8-8.1	8-8.1	4		8	61	22			28		170																				
R718_BH1331	5 m north of Southern entry shaft	7/10/2014	BH1331_0.65	0.65	8	0.4	22	30	25			3		14																				
R718_BH1333	18 m south-east of Station box	7/10/2014	BH1333_0.7-0.8	0.7-0.8	8		19	7	18			1		2																				
			BH1333_3	3.0																														
			BH1333_4	4.0	8		19	46	21			19		74																				
			BH1333_5	5.0																														
			BH1333_6	6.0																														
R718_BH1336	82 m south-east of Station box	10/10/2014	BH1336_0.5	0.5	5	0.4	31	13	16		0.2	16		17																				
			BH1336_3	3.0	6		17	9	17			6		9																				
			BH1336_4	4.0																														
			BH1336_5	5.0																														
			BH1336_6	6.0																														
			BH1336_7	7.0																														
R718_BH1341	310 m north-east of Station box	24/09/2014	BH1341_0.2-0.3	0.2-0.3																														
			BH1341_1-1.1	1-1.1	7		7	57	22			26		100																0.1		0.12			
			BH1341_1.9-2	1.9-2																														
			BH1341_3-3.1	3-3.1																														
			BH1341_4.1-4.2	4.1-4.2																														
			BH1341_5.1-5.2	5.1-5.2																														
AF_BH28	63 m south of Station box	19/11/2021	AFBH28_0.2-0.3	0.2-0.3		0.8	9	230	56			160	0.4	57																				
			AFBH28_0.5-0.6	0.5-0.6			2	10	5			6		6					0.1										0.2		0.3			
			AFBH28_1.2-1.3	1.2-1.3			11	14	150	0.1	0.1	3		130					0.5	0.5	0.2	0.4	0.4	0.1	0.1		0.3	0.3	0.1	2.9				
AF_BH29I	100 m west of Station box	11/01/2022	AFBH29I_0.25-0.30	0.25-0.30			4	180	10			13		8	200	170	320	140						0.1						0.1				
			AFBH29I_0.4-0.5	0.4-0.5			16	3	23					2																				
			AFBH29I_1.35-1.45	1.35-1.45			4	15	10					2																				

1# - CRC Care Technical Report #10, Table A4, Direct Contact Criterion, Commercial/industrial, coarse soil type.
2# - PFAS NEMP 2.0, Table 2, Human health investigation levels for soil
3# - Addendum to the Waste Classification Guidelines (2014) - Part 1: classifying waste Table 2
4# - The most conservative value (ACL) was applied.
5# - National Environment Protection (Assessment of Site Contamination) Measure 1999, Technical Working Group, ERRATA Updated 30 April 2014
6# - Ecological indirect exposure, Table 3, Ecological guideline values for soil, PFAS NEMP 2.0.
7# - Ecological direct exposure, Table 3, Ecological guideline values for soil, PFAS NEMP 2.0.
* 1 = slight; 2 = moderate; 3 = high; and 4 = vigorous

Table 4-6: Summary of detected analytical soil results

					PFAS										Acid Sulfate Soils					
					PFHxS (mg/kg)	PFOS (mg/kg)	PFHxA (mg/kg)	PFHpA (mg/kg)	PFOA (mg/kg)	PFOA TCLP (mg/L)	Sum of PFAS (mg/kg)	Sum of PFHxS and PFOS (mg/kg)	Sum of PFHxS and PFOS TCLP (mg/L)	Sum of PFAS (WA DER List) (mg/kg)	pHF (pH units)	pHfox (pH units)	pH Difference (Field)	Reaction Rate (*)	Net Acidity ex ANC (%S)	Net Acidity ex ANC (mol H+/t)
				HIL D, Table 1A(1) NEPC 2013					50[2]			20[2]								
				EILs, ESLs, Commercial and industrial NEPC 2013		0.01[6]			10[7]											
				NSW 2014 General Solid Waste (CT1)					18[3]			1.8[3]								
				NSW 2014 Restricted Solid Waste (CT2)																
				NSW 2014 General Solid Waste SCC1					18[4]			1.8[4]								
				NSW 2014 General Solid Waste TCLP1						0.05[3]			0.05[3]							
				National ASS Guidelines 2018											<4	≤3.5	1		0.03	18
Sample Point	**Location**	**Sample Date**	**Sample ID**	**Depth (mbgl)**																
SMW_BH713	Station box northern boundary	26/10/2020	SMW_BH713/0.4-0.5	0.4-0.5		0.0002					0.0002	0.0002		0.0002						
SMW_BH714	16 m south of Station box on Great Western Highway	16/11/2020	SMW_BH714/0.5-0.6	0.5-0.6																
SMW_BH715	12 m north of Station box	22/09/2020	SMW_BH715/0.2	0.2		0.0006			0.0003		0.0009	0.0006		0.0009						
			SMW_BH715/0.5	0.5	0.0003	0.0016	0.0005	0.0002	0.001			0.0019		0.0036						
			SMW_BH715/1.3	1.3																
SMW_BH716	19 m south of Station box in cross passage footprint	6/11/2020	BH716_0.4-0.5	0.4-0.5																
SMW_BH046	35 m north-east of Station box	30/04/2018	BH046_0.50-0.60	0.50-0.60											7.3	D	2.9	4	0.03	18
			BH046_1.50-1.95	1.50-1.95											5.7	5.4	0.3	4		
R718_BH1326	326 m south-east of Station box	29/09/2014	BH1326_0.2-0.3	0.2-0.3																
			BH1326_0.5-0.6	0.5-0.6																
			BH1326_8-8.1	8-8.1																
R718_BH1331	5 m north of Southern entry shaft	7/10/2014	BH1331_0.65	0.65																
R718_BH1333	18 m south-east of Station box	7/10/2014	BH1333_0.7-0.8	0.7-0.8																
			BH1333_3	3.0											6.5	4.6	1.9	1		
			BH1333_4	4.0											6.4	3.7	2.7	1	0.02	14
			BH1333_5	5.0											6.8	4.2	2.6	1		
			BH1333_6	6.0											7.2	5.4	1.8	2	0.02	13
R718_BH1336	82 m south-east of Station box	10/10/2014	BH1336_0.5	0.5																
			BH1336_3	3.0																
			BH1336_4	4.0											7.4	8.3	-0.9	4		
			BH1336_5	5.0											7.5	6.6	0.9	3		
			BH1336_6	6.0											7.4	6.5	0.9	3		
			BH1336_7	7.0											7.1	5.8	1.3	3		
R718_BH1341	310 m north-east of Station box	24/09/2014	BH1341_0.2-0.3	0.2-0.3																
			BH1341_1-1.1	1-1.1																
			BH1341_1.9-2	1.9-2											7.6	6.8	0.8	2		
			BH1341_3-3.1	3-3.1											6.2	4.3	1.9	3		
			BH1341_4.1-4.2	4.1-4.2											5.9	6.3	-0.4	2		
			BH1341_5.1-5.2	5.1-5.2											7.2	6	1.2	1		
AF_BH28	63 m south of Station box	19/11/2021	AFBH28_0.2-0.3	0.2-0.3																
			AFBH28_0.5-0.6	0.5-0.6		0.1	0.1													
			AFBH28_1.2-1.3	1.2-1.3											5.1	4.1	1	1	0.051	32
AF_BH29I	100 m west of Station box	11/01/2022	AFBH29i_0.25-0.30	0.25-0.30																
			AFBH29i_0.4-0.5	0.4-0.5																
			AFBH29i_1.35-1.45	1.35-1.45											9.3	7.3	2			

1# - CRC Care Technical Report #10, Table A4, Direct Contact Criterion, Commercial/industrial, coarse soil type.
2# - PFAS NEMP 2.0, Table 2, Human health investigation levels for soil
3# - Addendum to the Waste Classification Guidelines (2014) - Part 1: classifying waste Table 2
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7# - Ecological direct exposure, Table 3, Ecological guideline values for soil, PFAS NEMP 2.0.
* 1 = slight; 2 = moderate; 3 = high; and 4 = vigorous

APPENDIX J WASTE CLASSIFICATION REPORT

15 August 2022

Hector Martin
Project Wide Construction Manager
Acciona Ferrovial Joint Venture
E: hector.martin@ctp-afjv.com.au

RE: Waste Classification at Burwood North Station Station Box and South-eastern Shaft Sydney Metro West; Central Tunnelling Package

ADE Consulting Group Pty Ltd
ABN: 14 617 358 808

Head Office
6/7 Millennium Court
Silverwater NSW 2128

Melbourne Office
4/95 Salmon Street
Port Melbourne VIC 3207

Brisbane Office
3/22 Palmer Avenue
Murarrie QLD 4172

Email: info@ade.group
Website: www.ade.group
Telephone: 1600 796 922

1 General Information and Background

ADE Consulting Group Pty Ltd (ADE) was commissioned by Acciona Ferrovial Joint Venture (AFJV) to undertake a waste classification at the Sydney Metro West, Burwood North Station worksite, located at the junction of Parramatta Road and eastern portion of Burwood Road, Concord, New South Wales (NSW) (the site). The objective of this report is to provide a waste classification for the in-situ soil materials within two subject areas at the site, the Station Box footprint and the South-eastern Shaft (SES) footprint, as presented in **Figure 1** (**Appendix I**) and further defined below:

1.1. Subject Area 1: Station Box Footprint

The Station Box footprint (Subject Area 1) is located immediately north of Parramatta Road, extending from Burwood Road to Loftus Street. Subject Area 1 is defined by an area size of approximately 4,600 m^2, with a proposed average excavation depth of 34.0 m below ground level (bgl). The breakdown of approximate spoil volumes expected to be generated from the Station Box excavation works is presented in **Figure 4** (**Appendix I**).

1.2. Subject Area 2: SES Footprint

The SES footprint (Subject Area 2) is located immediately south of Parramatta Road, between Burwood Road and Esher Street. Subject Area 2 is defined by an area size of approximately 700 m^2, with a proposed average excavation depth of 13.5 metres below ground level (m bgl). The breakdown of approximate spoil volumes expected to be generated from the SES footprint is presented in **Figure 4** (**Appendix I**).

1.3. Previous Assessments

In preparing this waste classification report, ADE has been supplied with the following environmental reports:

- Sampling and Analysis Quality Plan – Burwood Construction Site, Sydney Metro West; Central Tunnelling Package. Prepared for AFJV , date: 24 January 2022, project No: 0628507 (ERM, 2022a), and
- Detailed Site Investigation, Burwood Construction Site, Sydney Metro West; Central Tunnelling Package. Prepared for AFJV, dated 11 February 2022 (ERM, 2022b).

Following a review of the analytical data presented in the ERM (2022b) detailed site investigation (DSI) report, a total of 12 sampling locations (10 within the Station Box footprint and two within the SES footprint) were identified to be located within the subject areas, and as such, analytical data from these locations have been incorporated within the dataset of this report (refer to **Figures 2 and 3 - Appendix I**) for waste classification purposes.

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2. Desktop Review

2.1. Acid sulfate soils

The site was identified as having 'No Known Occurrence' regarding acid sulfate soils (ASS)[1]. Additionally, no observations / odours indicative of potential ASS (PASS) was noted in ERM (2022b) or during this investigation.

2.2. EPA online records

A review of the 'List of NSW Contaminated Sites Notified to the EPA' in Burwood and Concord (the 'Burwood North' site is located in Concord) identified the following:

- one site (Burwood State Transit Authority depot, located on the corner of Shaftesbury and Parramatta Roads, Burwood) as formally regulated for contamination. This depot is approximately 300 m south-east of the site and is not considered to have impacted the site.
- one site (operating service station) located at 89 Parramatta Road Concord, is positioned over 500m west of the Burwood North site. Industrial sites that have underground petroleum storage systems (UPSS) typically have impacts limited to within 300m of the UPSS. On this basis, it is considered unlikely that this service station would have adversely impacted the Burwood North site.
- Former Concord RSL Club and Majors Bay Reserve (the Club is located within the Reserve) are 'notified sites', in relation to historical landfills. The historical landfills (operating between 1949 and 1971) are understood to contain waste impacted with dioxins and pesticides. The historical landfills are situated over 2,500m from the Burwood North site. The historical landfills are also located close to Parramatta River i.e. lower in geographical elevation compared to the Burwood North site and are therefore considered to be down hydraulic gradient. On this basis, the historical landfills are considered unlikely to have adversely impacted the Burwood North site.

As such, ADE considers the contaminants of potential concern (CoPCs) to be adequately addressed, as outlined in Section 2.4 below.

Refer to **Supporting Documents (Appendix VII)** for searches of the NSW EPA Contaminated Land Register.

2.3. Potential contaminating activities

Past activities that may have led to contamination at the site include:

- Uncontrolled filling at the site
- Application of herbicides/pesticides to control local weeds and pests
- Legacy contaminants from historical site usage related to mechanical workshops and a car wash, and
- Residential land use and development (predominantly in the northern portion of the site).

2.4. Contaminants analysed

Based on ADE's desktop assessment (including the assessment of historical site and surrounding activities) and a review of the ERM sampling and analysis quality plan (SAQP) (ERM, 2021), the following suite of analytes were included in this investigation:

- Heavy metals – arsenic, cadmium, chromium, copper, lead, mercury, nickel and zinc,
- Total recoverable hydrocarbons (TRHs),
- Polycyclic aromatic hydrocarbons (PAHs),

[1] NSW and Department of Planning, Industry and Environment 2021 online portal eSPADE v2.1 (espade.environment.nsw.gov.au)

- Polychlorinated biphenyls (PCBs),
- Benzene, toluene, ethyl-benzene and total xylenes (BTEX),
- Organochlorine pesticides (OCPs),
- Organophosphorus pesticides (OPPs),
- Polyfluoroalkyl Substances (PFAS) including perfluorooctane sulfonate (PFOS) + perfluorohexane sulfonate (PFHxS),
- Volatile organic compounds (VOCs),
- Asbestos (as per Australian Standard 4964-2004: Method for the qualitative identification of asbestos in bulk samples).

The subsequent soil analytical results tables are presented in **Appendix II**.

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3. Sampling Plan and Methodology

3.1. Sampling rationale

Following a review of analytical data presented in the ERM (2022b) report, ADE recommended additional sampling locations within the subject areas to comply with the Victorian EPA (2010)[2] sample design guidelines. The new sampling locations (BWN-BH105, BWN-BH106, ADE-TP07, BWN-BH108 and SES-BH1 to SES-BH4) are presented in **Figure 2** (**Appendix I**) alongside previous sampling locations from ERM (2022b). Additionally, eight asbestos delineation boreholes (as explained in Section 4.3) were completed immediately outside of the subject areas.

3.2. Soil sampling method

The soil sampling methodology undertaken for ADE's recently completed boreholes is presented below in **Table 1.**

Table 1. Summary of sampling method

Item	Details
Service Location	All service locating activities were undertaken by AFJV, prior to ADE's fieldworks.
Excavation Methodology	Boreholes BWN-BH105, BWN-BH106, ADE-TP07 and BWN_BH08 were completed using a concrete corer, push tube drill rig and/or hand augers. Boreholes SES-BH1 to SES-BH4 were completed via concrete corer and hand auger only. All boreholes were terminated within the natural soil/rock profiles, ranging from 0.5 – 1.5 m bgl. All boreholes were re-instated with soil cuttings in the order in which it was excavated and resurfaced with concrete.
Soil Logging	Soil logging of recovered shallow soil material was completed in general accordance with the Australian Standard AS1726-1993: Geotechnical site investigations. Borehole log details are presented in **Appendix IV**.
Sampling methodology	Soil samples were collected directly via gloved hand from the auger or push tube. Soil samples were collected at a rate of up to one sample every 0.1-0.5m. Soil samples were collected at varying depths throughout the soil profile, with at least one sample taken in the fill material (typically between the 0 and 0.5 m bgl depth range) and one from natural soil (typically > 0.5m bgl). Soil samples were transferred into laboratory prepared 150 ml amber jars, PFAS specific jars and ziplock bags, which were filled to minimise headspace. Sample jars were placed in a cooler box containing crushed ice. A clean pair of gloves was used for each sample collection event. No decontamination of equipment was required as samples were collected directly from gloved hand.
QA/QC Program	Intra-laboratory duplicates were collected at a frequency of one per 20 primary samples collected. Inter-laboratory duplicates were collected at a frequency of one per 20 primary samples collected. Trip Blanks were collected at a frequency one per day. Trip Spikes were collected at a frequency of one per day.
Disposal of Soil Cuttings	All soil cuttings were re-instated within the excavation.
Soil Sample Analysis	Analyses conducted by a National Association of Testing Authorities (NATA) accredited laboratory as per established internationally recognised procedures including those published by US Environmental Protection Agency, American Public Health Association, Australian Standards and National Environmental Protection Measure.

[2] EPA Victoria 2010 Industrial Waste Resource Guidelines. Available at: https://www.epa.vic.gov.au/about-epa/publications/iwrg702

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3.3. Sampling Plan

For the in-situ assessment of the subject soil materials, ADE made reference to the sampling density outlined in the NSW EPA *Contaminated Sites Sampling Design Guidelines* (NSW EPA, 1995) and Victorian EPA (2009)[3] soil sampling guidelines. **Table 2** below compares the recommended number of sampling locations for the contamination assessment against soil samples taken (in accordance with NSW EPA, 1995) and **Table 3** presents the comparison of soil samples taken against the recommended number of samples suggested in the Victorian EPA (2009) guidelines for waste classification.

Table 2. Minimum Sampling Density for Assessment of the In-situ Soil Materials

Size of Subject Area (m^2)		Number of Recommended Sampling Points as per NSW EPA (1995)		Number of Sampling Points Undertaken		Minimum Sampling Density and Arrangement Achieved?	
Station Box[1]	SES[2]	Station Box	SES	Station Box	SES	Station Box	SES
500	500	5	5	14	6	Yes	Yes
1,000	1,000	6	6				
2,000	2,000	7	7				
2,500	2,500	8	8				
3,000	3,000	9	9				
4,000	4,000	11	11				
5,000	5,000	13	13				
6,000	6,000	15	15				
7,000	7,000	17	17				
8,000	8,000	19	19				
9,000	9,000	20	20				
10,000	10,000	21	21				
15,000	15,000	25	25				

Notes to Table 1
1. Area size of the Station Box is approximately 4,600 m^2.
2. Area size of the SES is approximately 700 m^2.

Table 3. Volumetric sampling density for assessment of the fill materials

Material Type	Approximate Volume (m^3)		No. Primary Samples collected		Vic EPA (2009) IWRG - Table 3 Minimum number of samples for 95% UCL estimate		Minimum Sampling Density Achieved for 95% UCL estimate?	
	Station Box [1]	SES[2]	Station Box	SES	Station Box	SES	Station Box	SES
Fill	4,600 m^3 (4,600 m^2 x average 1.0 m fill)	581 m^3 (700 m^2 x avg. 0.83 m fill)	24	13	19	10	Yes	Yes

Notes to Table 3
Volumetric considerations were not deemed necessary for the natural materials
1. Based on an average depth of fill calculated to be 1.0 m bgl across the Station Box footprint
2. Based on an average depth of fill calculated to be 0.83 m bgl across the SES footprint

The comparisons made in **Table 2** and **Table 3** above demonstrate that sufficient soil sampling has been conducted to adequately inform waste classification in accordance with the adopted regulatory guidance/requirements.

[3] EPA Victoria 2009 Industrial Waste Resource Guidelines. Available at: https://www.epa.vic.gov.au/about-epa/publications/iwrg702

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4. Discussion of field observations and results

4.1. Soil composition and depth

Fill materials encountered across the subject areas (Station Box and SES footprints) generally comprised of silty sand / sandy clay, with gravel and sandstone inclusions. The depth of fill was observed to have varied from ground surface to a maximum of 2.0 m bgl across the site. ADE calculated the average depth of fill at the Station Box to be approximately 1.0 m in thickness and the average depth of fill at the SES to be approximately 0.83 m in thickness. Natural soil materials encountered across the site generally comprised of silty clay / clay / shale / siltstone.

The soil descriptions reported within this investigation are consistent with the findings reported in the DSI (ERM, 2022b). Photographs of the soil profiles identified during the intrusive works are presented in **Appendix III** and detailed descriptions are included in the borelogs (refer to **Appendix IV**). Due to the varying strata depths across the site, the Station Box and SES areas were split into grids, as depicted in **Figure 3 (Appendix I).** A summary of the extent (depth) of fill material in each of the site grids is presented below in **Table 4** and is based on the information presented within the borelogs from ADE and ERM (refer to **Appendix IV**).

A summary of the extent (depth) of fill material in each of the six grids within the subject areas is presented below in **Table 4**.

Table 4. Summary of shallow fill material within the six subject grids

Location	Maximum Depth of Fill	Average Depth of Fill
Station Box - Grid 1	Approximately 1.5 m bgl	Approximately 1.0 mbgl
Station Box - Grid 2	Approximately 2.0 m bgl	Approximately 1.5 m bgl.
Station Box - Grid 3	Approximately 0.8 m bgl	Approximately 0.8 m bgl
Station Box - Grid 4	Approximately 1.0 m bgl	Approximately 1.0 m bgl
SES - Grid 5	Approximately 1.5 m bgl	Approximately 0.83 m bgl.
SES - Grid 6	Approximately 1.5 m bgl	Approximately 0.83 m bgl

Note to Table 4:
Fill depths and averages are presented in **Appendix 1 – Figure 4**.

4.2. Contaminant Results - Station Box footprint

Analytical data collected from the Station Box footprint is presented in **Table 1a (Appendix II)** and toxicity characteristic leaching potential (TCLP) data is presented in **Table 1c (Appendix II)**. The subsequent laboratory analytical certificates are presented in **Appendix V**.

4.2.1 Fill Layer

Most soil samples collected from the fill layer across the Station Box footprint returned concentrations below the adopted contaminant threshold (CT) criteria, with the exception of samples shown in **Table 5** below. **Table 5** identifies samples exceeding the CT1 and CT2 criteria for lead (Pb) (100 and 400 mg/kg respectively), CT1 criteria for nickel (Ni) (40 mg/kg) and CT1 and CT2 criteria benzo(a)pyrene (BaP) (0.8 and 3.2 mg/kg respectively).

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Table 5. Summary of CT exceedances within the Station Box fill materials

Station Box Grid	Location	Contaminant concentrations (CT1 exceedances)	Contaminant concentrations (CT2 exceedances)	TCLP[1]
Grid 1	BH103	BUR-BH103_0.1: Pb – 420 mg/kg BUR-BH103_0.1: BaP - 6.5 mg/kg	BUR-BH103_0.1: Pb – 420 mg/kg BUR-BH103_0.1: BaP - 6.5 mg/kg	<LOR
	BH104	BUR_BH104_0.2: BaP - 2.3 mg/kg	-	<LOR
	BH106	BUR_BH106_0.2: Pb – 223 mg/kg BUR_BH106_0.2: BaP - 2.4 mg/kg	-	<LOR
Grid 2	BH108	BUR_BH108_0.2: Pb – 267 mg/kg BUR_BH108_0.2: BaP - 4.2 mg/kg	BUR_BH108_0.2: BaP - 4.2 mg/kg	<LOR
	BH110	BUR_BH110_0.2: Pb – 131 mg/kg	-	<LOR
	BH111	BUR_BH111_0.5- Pb – 118 mg/kg	-	<LOR
	BH105	BWN_BH105-0.5-0.7: Pb – 347.1 mg/kg	-	<LOR
	BH106	BWN_BH106-0.7: Pb – 149.3 mg/kg	-	<LOR
	TP107	ADE-TP107-0.0-0.2: Ni – 93.9 mg/kg	-	<LOR
Grid 3	BH112	BUR_BH112_0.2: Ni – 95 mg/kg	-	<LOR

Notes to Table 5
LOR – Limit of reporting
1 – TCLP analysis was conducted on analytes that exceeded the adopted CT criteria (i.e. TCLP metals and/or TCLP PAH)

All samples exceeding the CT1 and CT2 criteria were submitted for TCLP analysis. All TCLP results were below the adopted TCLP1 criteria, refer to **Table 1c** (**Appendix III**). All samples that underwent TCLP analysis were subsequently compared against the specific contaminant concentration (SCC) criteria and were reported to be below the adopted SCC1 criteria (1,500 mg/kg for Pb, 1,050 mg/kg for Ni and 10 mg/kg for BaP). As such, all fill materials within the Station Box met the chemical criteria assigned for General Solid Waste (GSW) (refer to the grid cross section in **Appendix I – Figure 4**).

4.2.2 Natural Layer

Most soil samples collected from the natural layer within the Station Box footprint returned concentrations below the adopted background ranges for heavy metals (Berkman, 1989)[4] and without evidence of contamination from manufactured chemicals, process residues, or wastes from industrial, commercial, mining or agricultural activities. The exceptions were total petroleum hydrocarbons (TPH) and polycyclic aromatic hydrocarbons (PAH) within three samples, as outlined below in **Table 6**. On this basis, with the exception of the below locations, the natural soils would be classified as virgin excavated natural material (VENM).

Table 6. Summary of VENM exceedances within the Station Box natural materials

Station Box Grid	Location	Contaminant concentrations (VENM exceedances)
Grid 2	BH108	BUR_BH108_11.0: TRH (C6-C9) and TPH (C10-C36) – 30 mg/kg and 600 mg/kg BUR_BH108_11.0: Total PAHs – 0.8 mg/kg BUR_BH108_20.0: TPH (C6-C9) – 11 mg/kg
Grid 3	BH114	BUR_BH114_5.0: TRH (C6-C9) and TRH (C10-C36) – 16 mg/kg and 180 mg/kg

The above-mentioned samples collected from the natural layer reported concentrations of TPH and/or PAH exceeding the laboratory detection limit, and therefore do not meet the definition of VENM. Since the

[4] Background ranges, taken from the Field Geologist's Manual, compiled by D A Berkman, Third Edition 1989. Publisher – The Australasian Institute of Mining & Metallurgy (Berkman, 1989)

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concentration of TPH and PAH in these samples are below the adopted CT1 criteria (650 mg/kg for TPH C6-C9, 10,000 mg/kg for TPH C10-C36 and 200 mg/kg for total PAHs), they meet the chemical criteria assigned for GSW. The cross section in **Figure 4** (**Appendix 1**) illustrates the separation of VENM and GSW based on the presence of contaminants shown in **Table 6** above.

Due to the inherent variability (heterogenous nature) of soil and uncertainty in historical analytical results (particularly from natural soils in Grids 2 and 3 of the Station Box), ADE considers that further investigation is warranted. This may alter the waste classifications presented within this report. The uncertainties related to the in-situ waste classification of the deeper natural material can be summarised with the following questions:

- Has the contamination resulted from previous land use(s) at or within the vicinity of the site (noting historical industrial activities and resulting contamination within the vicinity of the site)?
- Is the hydrocarbon contamination likely to be naturally occurring or anthropogenic?
- Is it possible that cross contamination of samples occurred during the previous sampling efforts?
- Could contamination have migrated in groundwater from nearby fuel storage sites to the station box site?

4.3. Contaminant Results - SES footprint

Analytical data collected from the SES footprint is presented in **Table 1b** (**Appendix II**). TCLP data is presented in **Table 1c** (**Appendix II**). The subsequent laboratory analytical certificates are presented in **Appendix V**.

4.3.1 Fill Layer

Most soil samples collected from the fill layer across the SES footprint returned concentrations below the adopted CT criteria, with the exception of samples shown in **Table 7** below. **Table 7** identifies samples exceeding the CT1 and CT2 criteria for Pb (100 and 400 mg/kg respectively), CT1 criteria for Ni (40 mg/kg) and CT1 and C2 criteria for BaP (0.8 and 3.2 mg/kg respectively).

Table 7. Summary of CT exceedances within the SES fill materials

Station Box Grid	Location	Contaminant concentrations (CT1 exceedances)	Contaminant concentrations (CT2 exceedances)	TCLP[1]
Grid 5	BH115	BUR_BH115_0.2: Pb – 263 mg/kg BUR_BH115_0.2: Ni – 59 mg/kg BUR_BH115_0.2: BaP – 2.6 mg/kg BUR_BH115_0.5 Pb – 4,380 mg/kg BUR_BH115_0.5 BaP – 1.2 mg/kg BUR_BH115_1.0 Pb – 186 mg/kg	BUR_BH115_0.5 Pb – 4,380 mg/kg	0.3 mg/L <LOR <LOR 28.7 mg/L <LOR 8.5 mg/L
Grid 6	BH125	BUR_BH125_0.2: Pb – 445 mg/kg BUR_BH125_0.2: BaP 3.6 mg/kg	BUR_BH125_0.2: Pb – 445 mg/kg BUR_BH125_0.2: BaP 3.6 mg/kg	<LOR <LOR
	BH1	SES-BH1-0.0-0.2: Pb – 400.3 mg/kg SES-BH1-0.0-0.2: Ni – 159.8 mg/kg SES-BH1-BR2: Pb – 194 mg/kg SES-BH1-BR2: Ni – 57.3 mg/kg	SES-BH1-0.0-0.2: Pb – 400.3 mg/kg	<LOR 0.3 mg/L <LOR <LOR
	BH3	SES-BH3-0.0-0.2: Pb – 334.9 mg/kg	-	<LOR

Notes to Table 7
LOR – Limit of reporting
1 – TCLP analysis was conducted on analytes that exceeded the adopted CT criteria (i.e. TCLP metals and/or TCLP PAH)

All samples exceeding the CT1 and CT2 criteria were submitted for TCLP analysis. All TCLP results were below the adopted TCLP1 criteria except for TCLP Pb in BUR_BH115_0.5 (28.7 mg/L) and BUR_BH115_1.0 (8.5 mg/L), which exceeded the TCLP2 and TCLP1 criteria respectively, refer to Table 1c (**Appendix III**). All samples that underwent TCLP analysis were subsequently compared against the SCC criteria and were reported to be below the adopted SCC1 criteria (1,500 mg/kg for Pb, 1,050 mg/kg for Ni and 10 mg/kg for BaP) except for BUR_BH115_0.5 (Pb – 4,380 mg/kg). As such, all fill materials within the SES footprint met the chemical criteria assigned for GSW except for fill

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within the vicinity of BUR_BH115_0.5 and BUR_BH115_1.0 (refer to the grid cross section in **Appendix I – Figure 4**).

Sample BUR_BH115_0.5 collected from the northern portion of the SES footprint reported concentrations of Pb (4,380 mg/kg) exceeding the Pb SCC1 criteria (1,500 mg/kg) but below the Pb SCC2 criteria (6,000 mg/kg). This sample was submitted for TCLP Pb analysis and reported a TCLP value of 28.7 mg/L which exceeds the Pb TCLP2 criteria (20 mg/L). As such, the soil materials surrounding BUR_BH115_0.5, ranging from 0.2 to 1.0 m bgl are considered to be **Hazardous Waste**.

Sample BUR_BH115_1.0 reported a concentration of Pb (186 mg/kg) above the Pb CT1 criteria (100 mg/kg) and was submitted for TCLP Pb analysis. The subsequent TCLP concentration was 8.5 mg/L, which exceeded the TCLP1 criteria (5 mg/L) but was below the Pb TCLP2 criteria (20 mg/L). As such, the soil materials surrounding BUR_BH115_1.0, ranging from 1.0 to 5.0 m bgl are considered to be **Restricted Solid Waste (RSW)**.

4.3.2 Natural Layer

Most soil samples collected from the natural layer within the SES footprint returned concentrations below the background ranges for VENM (Berkman, 1989), with the exception of TPHs, PAHs and metals in two samples, as outlined in **Table 8** below.

Table 8. Summary of VENM exceedances within the SES natural materials

SES Grid	Location	Contaminant concentrations (VENM exceedances)
Grid 5	BH115	BUR_BH115_15.0: TPH C6-C9 – 44 mg/kg and TPH C10-C36 – 450 mg/kg BUR_BH115_15.0: Total PAHs – 1.1 mg/kg
Grid 6	BH2	SES-BH2-1.0-1.2: Cu – 274.4 mg/kg SES-BH2-1.0-1.2: Pb – 565.2 mg/kg SES-BH2-1.0-1.2: Zinc – 456.8 mg/kg SES-BH2-1.0-1.2: BaP – 1.05 mg/kg

Since the concentration of TPH C6-C9 (44 mg/kg) and TPH C10-C36 (450 mg/kg) in BUR_BH115_15.0 are below the adopted CT1 criteria (650 mg/kg for TPH C6-C9 and 10,000 mg/kg for TPH C10-C36), these soils meet the chemical criteria assigned for GSW. The concentration of Pb (565.2 mg/kg) and BaP (1.05 mg/kg) in SES-BH2-1.0-1.2 exceeded the adopted CT1 criteria and underwent TCLP Pb and BaP analyses. The subsequent TCLP Pb and BaP concentration were below the adopted TCLP1 criteria. As such, the concentration of Pb and BaP in SES-BH2-1.0-1.2 were compared to the SCC criteria and were found to be below the adopted SCC1 criteria (1,500 mg/kg for Pb and 10 mg/kg for BaP) and deemed to meet the chemical criteria assigned for GSW. The cross section in **Figure 4** (**Appendix 1**) illustrates the separation of VENM and GSW based on the presence of the contaminants shown in Table 8.

As per the discussion for the Station Box, ADE considers that additional sampling in the SES may refine the waste classification through better vertical delineation of contamination in Grid 6.

4.4. Asbestos Results

No asbestos was detected within any of the samples submitted for laboratory analysis within the Station Box and SES footprints. As such, the soil materials within Station Box and SES footprints are not considered 'Special Waste'.

4.4.1 Asbestos Impacted Soils (Outside the Subject Areas)

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Bonded asbestos fragments were identified within fill materials at two sample locations (BUR_BH116_0.2 ACM and BUR_BH123_0.3) immediately outside the subject areas. ADE advanced four delineation boreholes surrounding each of BUR_BH116_0.2 and BUR_BH123_0.3 (refer to **Appendix I – Figures 2 and 3**). ADE collected 500 mL asbestos samples (analysed for fibrous asbestos and asbestos fines) at 0.0-0.2 m bgl and 0.3-0.5 m bgl at each of the eight delineation locations, with no asbestos identified within any of these delineation samples. Additionally, these samples were also visually inspected for bonded asbestos fragments, with none of these fragments identified. As such, the asbestos impacted soils at BUR_BH116_0.2 and BUR_BH123_0.3 have been successfully delineated (vertically and laterally) and are not deemed to extend into the SES and Station Box subject areas (refer to **Appendix I – Figures 2 and 3**). Refer to Tables 1a and 1b (**Appendix II**) and **Appendix V** for the analytical results.

ADE notes that due to access constraints, boreholes were used to obtain soil samples (i.e., for both the ERM 2022b and ADE investigations). Boreholes are known to provide a limited assessment of asbestos in soils (as opposed to test pits via an excavator; the preferred method for more reliable asbestos assessments). Therefore, should any unexpected finds of asbestos be identified during future excavation works on-site, ADE recommends that further asbestos assessment be undertaken, and the waste classifications presented in this report should be updated.

4.5. Summary

Based on the assessment conducted and the currently available data, the following waste classifications were identified:

- The subject areas were divided into six grids (Grids 1-4 in the Station Box and Grids 5-6 in the SES):
    - Grid 1: all fill material considered to be **GSW (non-putrescible)** to approximately 1.0 m bgl with all underlying natural material considered to be **VENM**
    - Grid 2: all fill material considered to be **GSW (non-putrescible)** to approximately 1.5 m bgl with underlying natural material considered to be **VENM** from approximately 1.5 to 11.0 m bgl. Due to the presence of select contaminants, natural material from approximately 11.0 to 34.0 m bgl is considered to be **GSW (non-putrescible)**
    - Grid 3: all fill material considered to be **GSW (non-putrescible)** to approximately 1.0 m bgl with underlying natural material considered to be **VENM** from approximately 1.0 to 5.0 m bgl. Due to the presence of select contaminants, natural material from approximately 5.0 to 10.0 m bgl is considered to be **GSW (non-putrescible).** The lower-most profile of Grid 3 (10.0 to 34.0 m bgl) is classified as **VENM**
    - Grid 4: all fill material considered to be **GSW (non-putrescible)** to approximately 1.0 m bgl with all underlying natural material considered to be **VENM**
    - Grid 5: fill material from the ground surface to approximately 1.0 m bgl is considered to be **Hazardous Waste** with the underlying natural material from approximately 1.0 to 5.0 m bgl considered to be **RSW (non-putrescible)**. The lower-most profile of Grid 5 (5.0 to 13.5 m bgl) is classified as **VENM,** and
    - Grid 6: all fill material considered to be **GSW (non-putrescible)** to approximately 1.0 m bgl with underlying natural material also considered to be **GSW (non-putrescible)** from approximately 1.0 to 5.0 m bgl. The lower-most profile of Grid 6 (5.0 to 13.5 m bgl) is classified as **VENM**.
- The vertical profiles for Grids 1-6, including the subsequent waste classifications and approximate waste volumes, are presented in the cross section in **Figure 4** (**Appendix I**).

5. Conclusions

Based on the currently available data and evidence collected during the investigation, ADE has concluded the following:

5.1. Station Box Area (Subject Area 1)

- The entire fill layer across the Station Box footprint is classified as **GSW (non-putrescible)**.
- Natural materials across the Station Box footprint are considered to be VENM, with the exception of materials surrounding BH108 (Grid 2) from approximately 11.0 to 34.0 m bgl and materials surrounding BH114 (Grid 3) from approximately 5.0 to 10.0 m bgl.
- The natural materials from approximately 11.0 to 31.0 m bgl in Grid 2 and approximately 5.0 to 10.0 m bgl in Grid 3 are considered to be **GSW (non-putrescible)**.

5.2. SES Footprint (Subject Area 2)

- The fill layer across the SES footprint is classified as **GSW (non-putrescible)**, with the exception of fill materials surrounding BH115 (Grid 5). Since sample BUR_BH115_0.5 reported TCLP Pb concentrations exceeding the Pb TCLP2 criteria, fill materials surrounding BUR_BH115_0.5 from 0.2 to 1.0 m bgl are considered to be **Hazardous Waste**.

- Additionally, sample BUR_BH115_1.0 reported concentrations of Pb exceeding the Pb CT1 criteria but below the Pb SCC1 criteria and also had a Pb TCLP concentration above the Pb TCLP1 criteria but below the Pb TCLP2 criteria. As such, the soil materials surrounding BUR_BH115_1.0, ranging from approximately 1.0 to 5.0 m bgl are considered **Restricted Solid Waste (non-putrescible)**.

- Chemical data indicated that one sample (SES-BH2_1.0-1.2), collected from the natural layer within Grid 6, had concentrations of Pb and BaP exceeding the adopted CT1 criteria (but below the adopted SCC1 criteria) and underwent TCLP Pb and BaP analyses. The subsequent TCLP Pb and BaP concentrations were below the adopted TCLP1 criteria. As such, natural materials surrounding SES-BH2_1.0-1.2 from approximately 1.0 to 5.0 m bgl are considered **General Solid Waste (non-putrescible)**.

- All natural materials across the SES footprint from approximately 5.0 to 13.5 m bgl are considered to be VENM.

This report has been prepared in accordance with the NSW EPA (2014) waste classification guidelines for the purpose of off-site disposal. For compliance with regulatory guidelines, ADE considers the current dataset for the subject areas to be adequate based on the recommended sampling densities in the VIC EPA (2010) and NSW EPA (1995) guidelines.

Prepared by:	**Reviewed by:**	**Reviewed and Issued by:**
Mathew Lynch	Dr Santo Ragusa	Thesan Naidoo
Environmental Consultant	Principal Consultant	Project Manager
B.Sci (Env. Sci.)	PhD (CenvP SC 41129)	B.Sci. (Hon.)

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6. Limitations

This report has been prepared for the exclusive use of the client and is limited to the scope of the work agreed in the terms and conditions of contract (including assumptions, limitations and qualifications, circumstances, and constraints). ADE has relied upon the accuracy of information and data provided to it by the client and others.

ADE has used a degree of care and skill ordinarily exercised in similar investigations by reputable members of the environmental industry in Australia. No other warranty, expressed or implied, is made or intended. No one section or part of a section, of this report should be taken as giving an overall idea of this report. Each section must be read in conjunction with the whole of this report, including its appendixes and attachments. The report is an integral document and must be read in its entirety.

To the fullest extent permitted by law, ADE does not accept or assume responsibility to any third party (other than the client) for the investigative work, the report or the opinions given. The scope of work conducted, and report herein may not meet the specific needs (of which ADE is not aware) of third parties. ADE cannot be held liable for third party reliance on this document. Any third party who relies upon this report does so at its own risk.

The subsurface environment can present substantial uncertainty due to it complex heterogeneity. The conclusions presented in this report are based on limited investigation of conditions at specific sampling locations chosen to be as representative as possible under the given circumstances. However, it is possible that this investigation may not have encountered all areas of contamination at the site due to the limited sampling and testing program undertaken.

The material subject to classification pertains only to the site and subject area outlined within the report and must be consistent with the waste description reported. ADE notes that due to access constraints, boreholes were used to obtain soil samples (i.e., for both the ERM 2022b and ADE investigations). Boreholes are known to provide a limited assessment of asbestos in soils (as opposed to test pits via an excavator; the preferred method for more reliable asbestos assessments). Therefore, should any unexpected finds of asbestos be identified during future excavation works on-site, ADE recommends that further asbestos assessment be undertaken, and the waste classifications presented in this report should be updated.

ADE does not verify the accuracy or completeness of, or adopt as its own, the information or data supplied by others and excludes all liability with respect to such information and data. To the extent that conditions differ from assumptions set out in the report, and to the extent that information provided to ADE is inaccurate or incomplete or has changed since it was provided to ADE, the opinions expressed in this report may not be valid and should be reviewed.

ADE's professional opinions are based upon its professional judgement, experience, training, and results from analytical data. In some cases, further testing and analysis may be required, thus producing different results and/or opinions. ADE has limited its investigation to the scope agreed upon with its client.

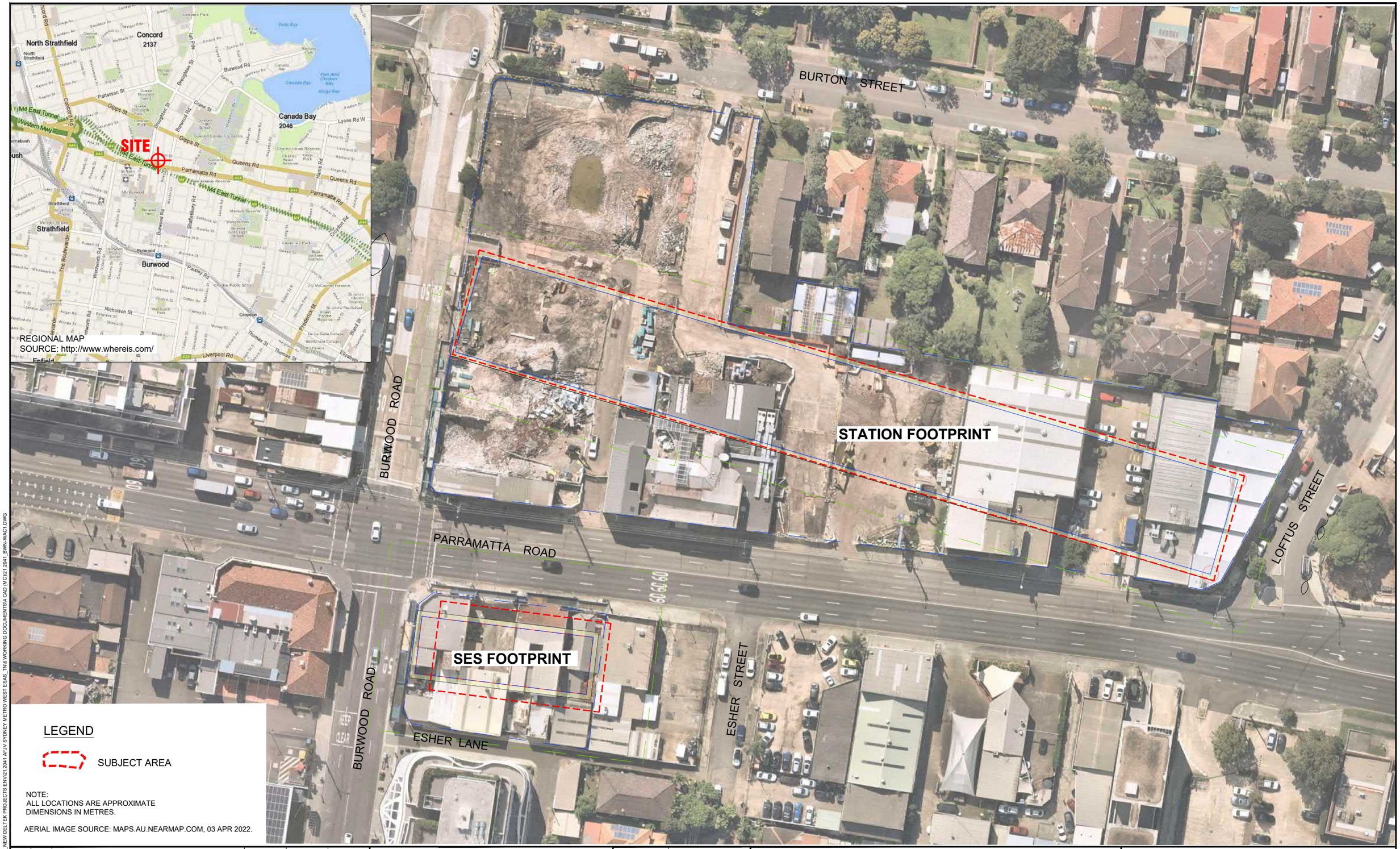
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7. References

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Appendix I – Figures

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LEGEND

SUBJECT AREA

NOTE:
ALL LOCATIONS ARE APPROXIMATE
DIMENSIONS IN METRES.

AERIAL IMAGE SOURCE: MAPS.AU.NEARMAP.COM, 03 APR 2022.

revision	no.	description	drawn	approved	date
	A	FIRST ISSUE	MC	MT	10/05/22

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SCALE 1:850 @A3 METRES

drawn	MC
approved	MT
date	10/05/2022
scale	AS SHOWN
original size	A3

client: ACCIONA FERROVIAL JOINT VENTURE (AFJV)

project: WASTE ANALYSIS AND CLASSIFICATION REPORT
BURWOOD STATION, BURWOOD, NSW

title: SUBJECT AREA AND SITE LOCATION PLAN

project no: 21.2041_BWN_WAC1 | figure no: FIGURE 1 | rev: A

ADE CONSULTING GROUP
Sydney Office
ADE Consulting Group Pty Ltd
Unit 6 / 7 Millennium Court, Silverwater, NSW 2128
www.ADE.group | info@ade.group | 1300 976 922

PLOT DATE: 16/05/2022 6:34:51 PM DWG FILE: W:_NEW DELTEK PROJECTS ENV\21.2041 AFJV SYDNEY METRO WEST ESAS_TW\6 WORKING DOCUMENTS\4 CAD (MC)\21.2041_BWN-WAC1.DWG

BH103
BH104
BH107
BH106
BH108/MW108
BH110
BH111
BWN_105
STATION FOOTPRINT
BH113
BH114
BH123-DEL1N
BH123
BH123-DEL1W
BH123-DEL1E
BH123-DEL1S
BWN_106
ADE_TP107
BWN_108
BH112
BURWOOD ROAD
PARRAMATTA ROAD
LOFTUS STREET
SES_BH1
BH115
SES_BH3
SES FOOTPRINT
SES_BH2
BH125
BH116-DEL1N
SES_BH4
BH116-DEL1W
BH116-DEL1E
BH116
BH116-DEL1S
ESHER LANE
ESHER STREET

NOTE:
ALL LOCATIONS ARE APPROXIMATE
DIMENSIONS IN METRES.

AERIAL IMAGE SOURCE: MAPS.AU.NEARMAP.COM, 03 APR 2022.

LEGEND

- SUBJECT AREA
- MW — BORE HOLE / GROUNDWATER WELL, (ERM 2022)
- BH — BORE HOLE WASTE CLASSIFICATION, (ERM 2022)
- BH — BORE HOLE, (ADE 2022)
- BH — DELINEATION SAMPLE LOCATION

revision	no.	description	drawn	approved	date
	A	FIRST ISSUE	MC	MT	10/05/22

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drawn	MC
approved	TN
date	10/05/2022
scale	AS SHOWN
original size	A3

client: ACCIONA FERROVIAL JOINT VENTURE (AFJV)

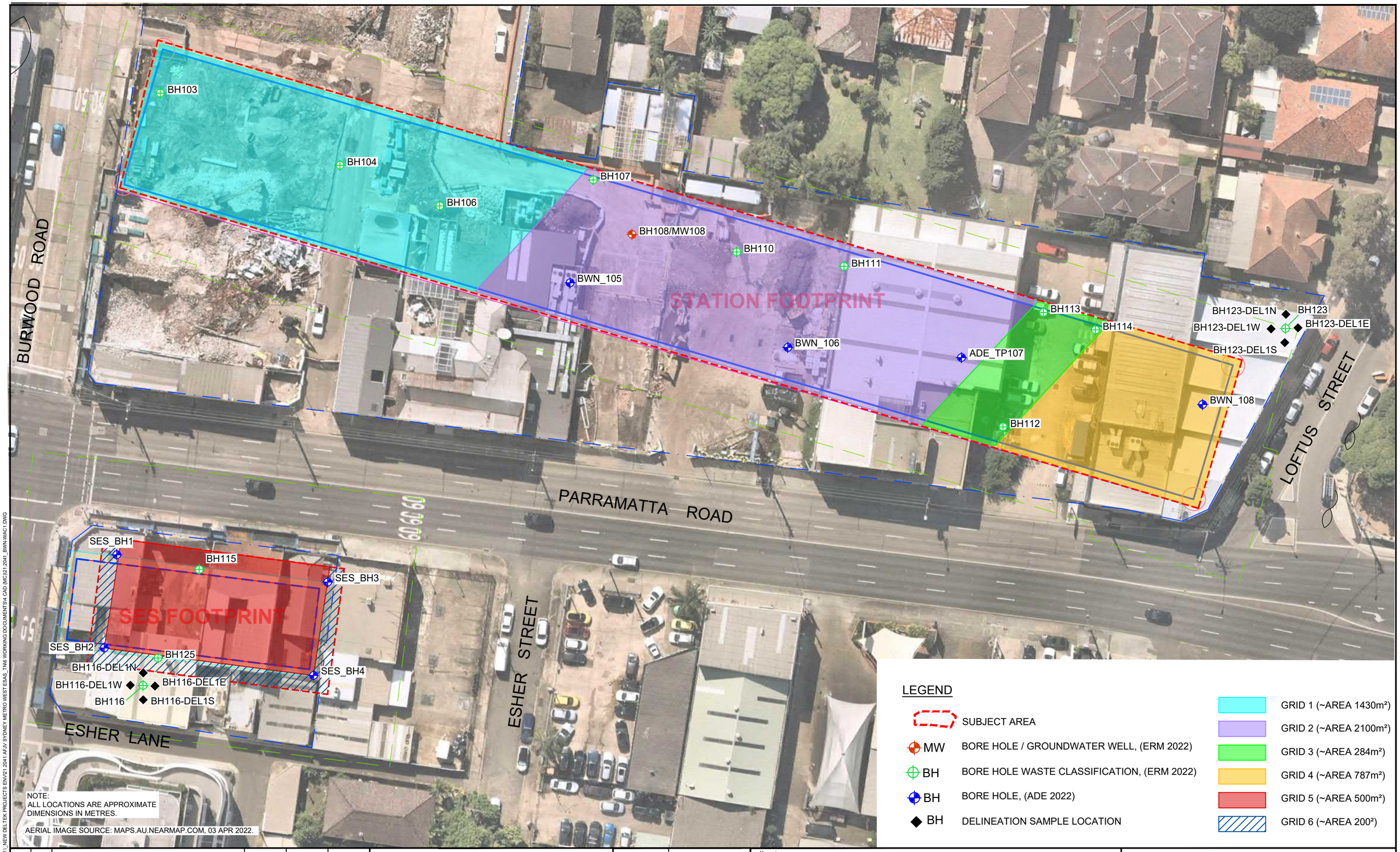
project: WASTE ANALYSIS AND CLASSIFICATION REPORT
BURWOOD STATION, BURWOOD, NSW

title: ADE SAMPLING PLAN

project no: 21.2041_BWN_WAC1 | figure no: FIGURE 2 | rev: A

Sydney Office
ADE Consulting Group Pty Ltd
Unit 6 / 7 Millennium Court, Silverwater, NSW 2128
www.ADE.group | info@ade.group | 1300 976 922

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LEGEND

- SUBJECT AREA
- MW — BORE HOLE / GROUNDWATER WELL, (ERM 2022)
- BH — BORE HOLE WASTE CLASSIFICATION, (ERM 2022)
- BH — BORE HOLE, (ADE 2022)
- BH — DELINEATION SAMPLE LOCATION
- GRID 1 (~AREA 1430m²)
- GRID 2 (~AREA 2100m²)
- GRID 3 (~AREA 284m²)
- GRID 4 (~AREA 787m²)
- GRID 5 (~AREA 500m²)
- GRID 6 (~AREA 200²)

revision	no.	description	drawn	approved	date
	A	FIRST ISSUE	MC	MT	10/05/22

0 6 12 18 24 30
SCALE 1:600 @A3 METRES

drawn	MC
approved	TN
date	10/05/2022
scale	AS SHOWN
original size	A3

client: ACCIONA FERROVIAL JOINT VENTURE (AFJV)

project: WASTE ANALYSIS AND CLASSIFICATION REPORT
BURWOOD STATION, BURWOOD, NSW

title: GRID AREA PLAN

project no: 21.2041_BWN_WAC1 | figure no: FIGURE 3 | rev: A

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Sydney Office
ADE Consulting Group Pty Ltd
Unit 6 / 7 Millennium Court, Silverwater, NSW 2128
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BURWOOD NORTH STATION, CONCORD, NSW
FIGURE 4 - GRID CROSS SECTION

STATION BOX FOOTPRINT

Average Depth/Grid	Grid 1 (~1,430 m^2)	Grid 2 (~2,100m^2)	Grid 3 (~284 m^2)	Grid 4 (~787 m^2)
0.5m	GSW (~1,430m3)	GSW (~3,150 m3)	GSW (~284 m3)	GSW (~787 m3)
1.0m				
1.5m	VENM (~715 m3)*		VENM (~1,136 m3)*	VENM (~787 m3)*
2.0m	VENM (~46,475 m3)*	VENM (~19,950 m3)*		
2.5m				
3.0m				
3.5m				
4.0m				
4.5m				
5.0m				
5.5m			GSW (~1,420 m3)	VENM (~25,184 m3)*
6.0m				
6.5m				
7.0m				
7.5m				
8.0m				
8.5m				
9.0m				
9.5m				
10.0m				
10.5m				
11.0m				
11.5m		GSW (~48,300 m3)	VENM (~6,816 m3)*	
12.0m				
12.5m				
13.0m				
13.5m				
14.0m				
14.5m				
15.0m				
15.5m				
16.0m				
16.5m				
17.0m				

STATION BOX EXCAVATION EXTENDS TO AN AVERAGE OF ~34.0 M BGL (MATERIAL FROM 17.0-34.0 M BGL IS NATURAL [SHALE AND/OR SILTSTONE])

SES FOOTPRINT

Grid 5 (~500 m^2)	Grid 6 (~200 m^2)
Haz Waste (~500 m3)	GSW (~200 m3)
RSW (~1,000 m3)	GSW (~800 m3)
RSW (~1,000 m3)	
VENM (~1,000 m3)*	VENM (~1,700 m3)*
VENM (~3,250 m3)*	

SES EXCAVATION ENDS TO AN AVERAGE OF 13.5 M BGL

Estimated Volumes (m^3)	
56,371	GSW
2,000	RSW
500	Haz. WASTE
107,013	VENM

Appendix II – Result Table

Commercial in Confidence

Table 1a - Station Box Footprint		Asbetos	Metals								BTEX								TPH				
		Asbestos	Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc	Benzene	Toluene	Ethylbenzene	Xylene (m & p)	Xylene (o)	Xylene Total	Naphthalene (VOC)	Total BTEX	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum)
		Presence/ Absence	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL			4	0.3	1	1	1	0.1	1	1	0.2	0.5	0.5	0.5	0.5	0.5	1	0.2	10	50	100	100	50
Berkman (1989) Background Ranges (VENM)			50	1	1,000	100	200	0.03	500	300													
NSW 2014 General Solid Waste CT1 (No Leaching)			100	20	100		100	4	40		10	288	600			1,000			650				10,000
NSW 2014 General Solid Waste SCC1 (with leached)			500	100	1,900		1,500	50	1,050		18	518	1,080			1,800			650				10,000
NSW 2014 Restricted Solid Waste CT2 (No Leaching)			400	80	400		400	16	160		40	1,152	2,400			4,000			2,600				40,000
NSW 2014 Restricted Solid Waste SCC2 (with leached)			2,000	400	7,600		6,000	200	4,200		72	2,073	4,320			7,200			2,600				40,000
Field ID	**Date**																						
Fill Layer																							
BUR_BH103_0.1	16/12/2021	0	9	<1	22	127	420	0.3	12	373	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<10	<50	250	200	450
BUR_BH103_0.7	16/12/2021		9	<1	28	15	25	<0.1	6	105	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<10	<50	<100	<100	<50
BUR_BH104_0.2	16/12/2021	0	10	<1	29	28	99	0.1	6	88	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<10	<50	<100	<100	<50
BUR_BH106_0.2	17/12/2021	0	5	<1	7	48	223	<0.1	13	146	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<10	<50	120	130	250
BUR_BH107_0.2	17/12/2021	0	5	<1	6	62	60	<0.1	16	82	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<10	<50	170	370	540
BUR_BH108_0.2	17/12/2021		8	<1	19	53	267	0.2	9	192	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<10	<50	130	140	270
BUR_BH108_0.5	17/12/2021		7	<1	19	8	23	<0.1	<2	<5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<10	<50	<100	<100	<50
BUR_BH110_0.2	20/12/2021		<5	<1	9	34	131	0.1	9	99	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<10	<50	<100	<100	<50
BUR_BH110_0.5	20/12/2021		12	<1	38	10	34	<0.1	8	7	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<10	<50	<100	<100	<50
BUR_BH111_0.2	20/12/2021		<5	<1	13	34	80	<0.1	8	86	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<10	<50	<100	<100	<50
BUR_BH111_0.5	20/12/2021		6	<1	17	59	118	0.3	7	108	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<10	<50	<100	<100	<50
BUR_BH112_0.2	21/12/2021	0	<5	<1	96	27	10	<0.1	95	56	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<10	<50	<100	<100	<50
BUR_BH112_0.5	21/12/2021		6	<1	29	11	18	<0.1	<2	<5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<10	<50	<100	<100	<50
BUR_BH113_0.2	20/12/2021	0	6	<1	13	9	27	<0.1	<2	22	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<10	<50	<100	<100	<50
BUR_BH114_0.2	20/12/2021	0	<5	<1	11	8	19	<0.1	<2	15	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<10	<50	<100	<100	<50
BWN_BH105-0.4	2/05/2022	0	12.3	<0.30	<5.0	<5.0	<10.0	<0.20	<10.0	<5.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0		<1.0	<35	<50	<100	<100	<50
BWN_BH105-0.5-0.7	2/05/2022	0	6.1	<0.30	21.2	37.8	347.1	1.00	12.3	344.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0		<1.0	<35	<50	<100	<100	<50
BWN_BH106-0.4	2/05/2022	0	<5.0	<0.30	13.4	24.9	64.2	0.20	<10.0	64.8	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0		<1.0	<35	<50	<100	<100	<50
BWN_BH106-0.7	2/05/2022	0	14.9	<0.30	37.6	14.5	149.3	0.21	<10.0	26.7	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0		<1.0	<35	<50	<100	<100	<50
BWN_BH106-1.1	2/05/2022	0	32.4	<0.30	34.8	<5.0	19.1	<0.20	<10.0	<5.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0		<1.0	<35	<50	<100	<100	<50
ADE-TP107-0.0-0.2	9/05/2022	0	<5.0	<0.30	96.4	23.5	<10.0	<0.20	93.9	52.9	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0		<1.0	<35	<50	<100	<100	<50
ADE-TP107-0.3-0.5	9/05/2022	0	13.7	<0.30	21.2	12.7	11.9	<0.20	13.0	18.6	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0		<1.0	<35	<50	<100	<100	<50
BWN_BH108-0.3	2/05/2022	0	10.5	<0.30	18.6	<5.0	<10.0	<0.20	<10.0	<5.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0		<1.0	<35	<50	<100	<100	<50
BWN_BH108-0.5	2/05/2022	0	24.1	<0.30	22.7	5.3	10.2	<0.20	<10.0	<5.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0		<1.0	<35	<50	<100	<100	<50
BWN_BH108_SR	23/042022		5	<0.30	9	6	13	<0.20	<10.0	4	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0		<1.0	<35	<50	<100	<100	<50
BWN_BH108-BR	2/05/2022		22.5	<0.30	16.4	7.1	<10.0	<0.20	<10.0	<5.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0		<1.0	<35	<50	<100	<100	<50
Natural Layer																							
BUR_BH103_3.0	16/12/2021		<5	<1	6	17	18	<0.1	<2	<5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<10	<50	<100	<100	<50
BUR_BH103_5.0	16/12/2021		5	<1	8	67	25	<0.1	4	26	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<10	<50	<100	<100	<50
BUR_BH104_1.0	16/12/2021		5	<1	15	11	21	<0.1	<2	<5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<10	<50	<100	<100	<50
BUR_BH104_4.0	16/12/2021		8	<1	9	42	20	<0.1	16	92	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<10	<50	<100	<100	<50
BUR_BH106_1.0	17/12/2021		6	<1	11	6	35	<0.1	<2	<5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<10	<50	<100	<100	<50
BUR_BH106_2.0	17/12/2021		8	<1	6	16	22	<0.1	<2	<5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<10	<50	<100	<100	<50
BUR_BH106_3.0	17/12/2021		8	<1	7	30	14	<0.1	2	15	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<10	<50	<100	<100	<50
BUR_BH106_4.0	17/12/2021		10	<1	14	52	21	<0.1	9	46	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<10	<50	<100	<100	<50
BUR_BH106_5.0	17/12/2021		12	<1	12	61	20	<0.1	27	144	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<10	<50	<100	<100	<50
BUR_BH107_1.0	17/12/2021		8	<1	19	5	18	<0.1	<2	8	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<10	<50	<100	<100	<50
BUR_BH107_3.0	17/12/2021		12	<1	10	20	10	<0.1	<2	8	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<10	<50	<100	<100	<50
BUR_BH107_5.0	17/12/2021		9	<1	13	69	20	<0.1	43	194	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<10	<50	<100	<100	<50
BUR_BH108_2.0	17/12/2021		<5	<1	4	7	14	<0.1	<2	<5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<10	<50	<100	<100	<50
BUR_BH108_5.8	17/12/2021		7	<1	14	46	16	<0.1	37	195	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<10	<50	<100	<100	<50
BUR_BH108_11.0	17/12/2021		<5	<1	5	22	12	<0.1	14	50	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	30	160	440	<100	600
BUR_BH108_17.0	17/12/2021		9	<1	11	15	16	<0.1	15	61	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<10	<50	<100	<100	<50
BUR_BH108_20.0	17/12/2021		8	<1	8	25	18	<0.1	18	79	<0.2	<0.5	<0.5	0.5	<0.5	<0.5		<0.2	11	<50	<100	<100	<50
BUR_BH110_1.0	20/12/2021		6	<1	12	8	18	<0.1	<2	<5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<10	<50	<100	<100	<50
BUR_BH110_5.0	20/12/2021		9	<1	16	44	24	<0.1	56	273	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<10	<50	<100	<100	<50
BUR_BH111_2.0	20/12/2021		<5	<1	4	11	16	<0.1	<2	<5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<10	<50	<100	<100	<50
BUR_BH111_5.0	20/12/2021		11	<1	10	30	18	<0.1	5	28	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<10	<50	<100	<100	<50
BUR_BH112_5.0	21/12/2021		6	<1	11	27	18	<0.1	7	37	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<10	<50	<100	<100	<50
BUR_BH113_1.0	20/12/2021		5	<1	8	15	19	<0.1	<2	10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<10	<50	<100	<100	<50
BUR_BH113_2.0	20/12/2021		11	<1	9	35	18	<0.1	7	41	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<10	<50	<100	<100	<50
BUR_BH113_5.0	20/12/2021		14	<1	13	56	33	<0.1	36	221	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<10	<50	<100	<100	<50
BUR_BH114_0.5	20/12/2021		<5	<1	8	10	22	<0.1	<2	<5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<10	<50	<100	<100	<50
BUR_BH114_5.0	20/12/2021		11	<1	9	43	26	<0.1	44	190	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	16	<50	180	<100	180
BUR_BH114_10.0	20/12/2021		9	<1	10	13	16	<0.1	13	58	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<10	<50	<100	<100	<50
BUR_BH114_15.0	20/12/2021		<5	<1	9	25	20	<0.1	19	79	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<10	<50	<100	<100	<50
BWN_BH105-1.3	2/05/2022	0	<5.0	<0.30	<5.0	<5.0	<10.0	<0.20	<10.0	<5.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0		<1.0	<35	<50	<100	<100	<50
BWN_BH105-2.8	2/05/2022	0	6.9	<0.30	<5.0	<5.0	<10.0	<0.20	<10.0	<5.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0		<1.0	<35	<50	<100	<100	<50
BWN_BH106-1.7	2/05/2022	0	19.6	<0.30	9.3	<5.0	<10.0	<0.20	<10.0	<5.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0		<1.0	<35	<50	<100	<100	<50
ADE-TP107-1.0-1.2	9/05/2022	0	8.3	<0.30	15.6	11.4	22.6	<0.20	<10.0	37.5	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0		<1.0	<35	<50	<100	<100	<50
BWN_BH108-0.9-1.0	2/05/2022	0	12.8	<0.30	9.4	<5.0	<10.0	<0.20	<10.0	<5.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0		<1.0	<35	<50	<100	<100	<50
BWN_BH108-2.0	2/05/2022	0	<5.0	<0.30	<5.0	7.8	<10.0	<0.20	<10.0	<5.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0		<1.0	<35	<50	<100	<100	<50
BH123 and Delineation Test Pits surrounding BH123																							
BUR_BH123_0.3	18/01/2022	1	8	<1	23	38	226	0.3	6	232	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<10	<50	<100	<100	<50
BUR_BH123_0.12	18/01/2022	0	<5	1	4	<5	5	<0.1	2	26	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<10	<50	<100	<100	<50
BUR_BH123_1.0	18/01/2022		12	<1	26	12	20	<0.1	3	45	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<10	<50	<100	<100	<50
BH123_DEL1N_0.0-0.2	18/01/2022	0																					
BH123_DEL1N_0.3-0.5	18/01/2022	0																					
BH123_DEL1E_0.0-0.2	18/01/2022	0																					
BH123_DEL1E_0.3-0.5	18/01/2022	0																					
BH123_DEL1S_0.0-0.2	18/01/2022	0																					
BH123_DEL1S_0.3-0.5	18/01/2022	0																					
BH123_DEL1W_0.0-0.2	18/01/2022	0																					
BH123_DEL1W_0.3-0.5	18/01/2022	0																					

* A Non Detect Multiplier of 0.5 has been applied.
1 - Chrysotile asbestos detected.

Table 1a - Station Box Footprint		TRH							PAH															
		C6-C10 Fraction (F1)	C6-C10 (F1 minus BTEX)	>C10-C16 Fraction (F2)	>C10-C16 Fraction (F2 minus Naphthalene)	>C16-C34 Fraction (F3)	>C34-C40 Fraction (F4)	>C10-C40 Fraction (Sum)	2-chloronaphthalene	2-methylnaphthalene	3-methylcholanthrene	7,12-dimethylbenz(a)anthracene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(b+j+k)fluoranthene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(b)fluoranthene	Benzo(b+j)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL		10	10	50	50	100	100	50	0.5	0.5	0.5	0.5	0.1	0.1	0.1	0.2	0.1	0.05	0.3	0.5	0.1	0.3	0.1
Berkman (1989) Background Ranges (VENM)																								
NSW 2014 General Solid Waste CT1 (No Leaching)																		0.8						
NSW 2014 General Solid Waste SCC1 (with leached)																		10						
NSW 2014 Restricted Solid Waste CT2 (No Leaching)																		3.2						
NSW 2014 Restricted Solid Waste SCC2 (with leached)																		23						
Field ID	**Date**																							
Fill Layer																								
BUR_BH103_0.1	16/12/2021	<10	<10	<50	<50	380	130	510					<0.5	1.6	2.2		7.2	6.5		8.2	4	3.2	6.3
BUR_BH103_0.7	16/12/2021	<10	<10	<50	<50	<100	<100	<50					<0.5	<0.5	<0.5		<0.5	<0.5		<0.5	<0.5	<0.5	<0.5
BUR_BH104_0.2	16/12/2021	<10	<10	<50	<50	110	<100	110					<0.5	0.7	1		2.8	2.3		2.8	1.3	1.2	2.3
BUR_BH106_0.2	17/12/2021	<10	<10	<50	<50	200	<100	200					<0.5	0.6	0.9		2.6	2.4		2.9	1.4	1.1	2.5
BUR_BH107_0.2	17/12/2021	<10	<10	<50	<50	410	400	810					<0.5	<0.5	<0.5		<0.5	<0.5		<0.5	<0.5	<0.5	<0.5
BUR_BH108_0.2	17/12/2021	<10	<10	<50	<50	220	140	360					<0.5	0.7	1.3		4.4	4.2		4.7	2.4	1.9	3.9
BUR_BH108_0.5	17/12/2021	<10	<10	<50	<50	<100	<100	<50					<0.5	<0.5	<0.5		<0.5	<0.5		<0.5	<0.5	<0.5	<0.5
BUR_BH110_0.2	20/12/2021	<10	<10	<50	<50	<100	<100	<50					<0.5	<0.5	<0.5		0.6	0.8		0.8	0.5	<0.5	0.6
BUR_BH110_0.5	20/12/2021	<10	<10	<50	<50	<100	<100	<50					<0.5	<0.5	<0.5		<0.5	<0.5		<0.5	<0.5	<0.5	<0.5
BUR_BH111_0.2	20/12/2021	<10	<10	<50	<50	<100	<100	<50					<0.5	<0.5	<0.5		<0.5	<0.5		<0.5	<0.5	<0.5	<0.5
BUR_BH111_0.5	20/12/2021	<10	<10	<50	<50	<100	<100	<50					<0.5	<0.5	<0.5		<0.5	<0.5		<0.5	<0.5	<0.5	<0.5
BUR_BH112_0.2	21/12/2021	11	11	<50	<50	<100	<100	<50					<0.5	<0.5	<0.5		<0.5	<0.5		<0.5	<0.5	<0.5	<0.5
BUR_BH112_0.5	21/12/2021	<10	<10	<50	<50	<100	<100	<50					<0.5	<0.5	<0.5		<0.5	<0.5		<0.5	<0.5	<0.5	<0.5
BUR_BH113_0.2	20/12/2021	<10	<10	<50	<50	<100	<100	<50					<0.5	<0.5	<0.5		<0.5	<0.5		<0.5	<0.5	<0.5	<0.5
BUR_BH114_0.2	20/12/2021	<10	<10	<50	<50	<100	<100	<50					<0.5	<0.5	<0.5		<0.5	<0.5		<0.5	<0.5	<0.5	<0.5
BWN_BH105-0.4	2/05/2022	<35	<35	<50		<100	<100	<50					<0.30	<0.30	<0.30		<0.30	<0.30	<0.30		<0.30	<0.30	<0.30
BWN_BH105-0.5-0.7	2/05/2022	<35	<35	<50		<100	<100	<50					<0.30	<0.30	<0.30		<0.30	<0.30	<0.30		<0.30	<0.30	<0.30
BWN_BH106-0.4	2/05/2022	<35	<35	<50		<100	<100	<50					<0.30	<0.30	<0.30		<0.30	<0.30	<0.30		<0.30	<0.30	<0.30
BWN_BH106-0.7	2/05/2022	<35	<35	<50		<100	<100	<50					<0.30	<0.30	<0.30		<0.30	<0.30	<0.30		<0.30	<0.30	<0.30
BWN_BH106-1.1	2/05/2022	<35	<35	<50		<100	<100	<50					<0.30	<0.30	<0.30		<0.30	<0.30	<0.30		<0.30	<0.30	<0.30
ADE-TP107-0.0-0.2	9/05/2022	<35	<35	<50		<100	<100	<50					<0.30	<0.30	<0.30		<0.30	<0.30	<0.30		<0.30	<0.30	<0.30
ADE-TP107-0.3-0.5	9/05/2022	<35	<35	<50		<100	<100	<50					<0.30	<0.30	<0.30		<0.30	<0.30	<0.30		<0.30	<0.30	<0.30
BWN_BH108-0.3	2/05/2022	<35	<35	<50		<100	<100	<50					<0.30	<0.30	<0.30		<0.30	<0.30	<0.30		<0.30	<0.30	<0.30
BWN_BH108-0.5	2/05/2022	<35	<35	<50		<100	<100	<50					<0.30	<0.30	<0.30		<0.30	<0.30	<0.30		<0.30	<0.30	<0.30
BWN_BH108_SR	23/042022	<35	<35	<50		<100	<100	<50					<0.1	<0.1	<0.1		<0.1	<0.1		<0.1	<0.1	<0.1	<0.1
BWN_BH108-BR	2/05/2022	<35	<35	<50		<100	<100	<50					<0.30	<0.30	<0.30		<0.30	<0.30	<0.30		<0.30	<0.30	<0.30
Natural Layer																								
BUR_BH103_3.0	16/12/2021	<10	<10	<50	<50	<100	<100	<50					<0.5	<0.5	<0.5		<0.5	<0.5		<0.5	<0.5	<0.5	<0.5
BUR_BH103_5.0	16/12/2021	<10	<10	<50	<50	<100	<100	<50					<0.5	<0.5	<0.5		<0.5	<0.5		<0.5	<0.5	<0.5	<0.5
BUR_BH104_1.0	16/12/2021	<10	<10	<50	<50	<100	<100	<50					<0.5	<0.5	<0.5		<0.5	<0.5		<0.5	<0.5	<0.5	<0.5
BUR_BH104_4.0	16/12/2021	<10	<10	<50	<50	<100	<100	<50					<0.5	<0.5	<0.5		<0.5	<0.5		<0.5	<0.5	<0.5	<0.5
BUR_BH106_1.0	17/12/2021	<10	<10	<50	<50	<100	<100	<50					<0.5	<0.5	<0.5		<0.5	<0.5		<0.5	<0.5	<0.5	<0.5
BUR_BH106_2.0	17/12/2021	<10	<10	<50	<50	<100	<100	<50					<0.5	<0.5	<0.5		<0.5	<0.5		<0.5	<0.5	<0.5	<0.5
BUR_BH106_3.0	17/12/2021	<10	<10	<50	<50	<100	<100	<50					<0.5	<0.5	<0.5		<0.5	<0.5		<0.5	<0.5	<0.5	<0.5
BUR_BH106_4.0	17/12/2021	<10	<10	<50	<50	<100	<100	<50					<0.5	<0.5	<0.5		<0.5	<0.5		<0.5	<0.5	<0.5	<0.5
BUR_BH106_5.0	17/12/2021	<10	<10	<50	<50	<100	<100	<50					<0.5	<0.5	<0.5		<0.5	<0.5		<0.5	<0.5	<0.5	<0.5
BUR_BH107_1.0	17/12/2021	<10	<10	<50	<50	<100	<100	<50					<0.5	<0.5	<0.5		<0.5	<0.5		<0.5	<0.5	<0.5	<0.5
BUR_BH107_3.0	17/12/2021	<10	<10	<50	<50	<100	<100	<50					<0.5	<0.5	<0.5		<0.5	<0.5		<0.5	<0.5	<0.5	<0.5
BUR_BH107_5.0	17/12/2021	<10	<10	<50	<50	<100	<100	<50					<0.5	<0.5	<0.5		<0.5	<0.5		<0.5	<0.5	<0.5	<0.5
BUR_BH108_2.0	17/12/2021	<10	<10	<50	<50	<100	<100	<50					<0.5	<0.5	<0.5		<0.5	<0.5		<0.5	<0.5	<0.5	<0.5
BUR_BH108_5.8	17/12/2021	<10	<10	<50	<50	<100	<100	<50					<0.5	<0.5	<0.5		<0.5	<0.5		<0.5	<0.5	<0.5	<0.5
BUR_BH108_11.0	17/12/2021	50	50	230	230	420	<100	650					<0.5	<0.5	<0.5		<0.5	<0.5		<0.5	<0.5	<0.5	<0.5
BUR_BH108_17.0	17/12/2021	<10	<10	<50	<50	<100	<100	<50					<0.5	<0.5	<0.5		<0.5	<0.5		<0.5	<0.5	<0.5	<0.5
BUR_BH108_20.0	17/12/2021	13	13	<50	<50	<100	<100	<50					<0.5	<0.5	<0.5		<0.5	<0.5		<0.5	<0.5	<0.5	<0.5
BUR_BH110_1.0	20/12/2021	<10	<10	<50	<50	<100	<100	<50					<0.5	<0.5	<0.5		<0.5	<0.5		<0.5	<0.5	<0.5	<0.5
BUR_BH110_5.0	20/12/2021	<10	<10	<50	<50	<100	<100	<50					<0.5	<0.5	<0.5		<0.5	<0.5		<0.5	<0.5	<0.5	<0.5
BUR_BH111_2.0	20/12/2021	<10	<10	<50	<50	<100	<100	<50					<0.5	<0.5	<0.5		<0.5	<0.5		<0.5	<0.5	<0.5	<0.5
BUR_BH111_5.0	20/12/2021	<10	<10	<50	<50	<100	<100	<50					<0.5	<0.5	<0.5		<0.5	<0.5		<0.5	<0.5	<0.5	<0.5
BUR_BH112_5.0	21/12/2021	<10	<10	<50	<50	<100	<100	<50					<0.5	<0.5	<0.5		<0.5	<0.5		<0.5	<0.5	<0.5	<0.5
BUR_BH113_1.0	20/12/2021	<10	<10	<50	<50	<100	<100	<50					<0.5	<0.5	<0.5		<0.5	<0.5		<0.5	<0.5	<0.5	<0.5
BUR_BH113_2.0	20/12/2021	<10	<10	<50	<50	<100	<100	<50					<0.5	<0.5	<0.5		<0.5	<0.5		<0.5	<0.5	<0.5	<0.5
BUR_BH113_5.0	20/12/2021	<10	<10	<50	<50	<100	<100	<50					<0.5	<0.5	<0.5		<0.5	<0.5		<0.5	<0.5	<0.5	<0.5
BUR_BH114_0.5	20/12/2021	<10	<10	<50	<50	<100	<100	<50					<0.5	<0.5	<0.5		<0.5	<0.5		<0.5	<0.5	<0.5	<0.5
BUR_BH114_5.0	20/12/2021	26	26	70	70	180	<100	250					<0.5	<0.5	<0.5		<0.5	<0.5		<0.5	<0.5	<0.5	<0.5
BUR_BH114_10.0	20/12/2021	<10	<10	<50	<50	<100	<100	<50					<0.5	<0.5	<0.5		<0.5	<0.5		<0.5	<0.5	<0.5	<0.5
BUR_BH114_15.0	20/12/2021	<10	<10	<50	<50	<100	<100	<50					<0.5	<0.5	<0.5		<0.5	<0.5		<0.5	<0.5	<0.5	<0.5
BWN_BH105-1.3	2/05/2022	<35	<35	<50		<100	<100	<50					<0.30	<0.30	<0.30		<0.30	<0.30	<0.30		<0.30	<0.30	<0.30
BWN_BH105-2.8	2/05/2022	<35	<35	<50		<100	<100	<50					<0.30	<0.30	<0.30		<0.30	<0.30	<0.30		<0.30	<0.30	<0.30
BWN_BH106-1.7	2/05/2022	<35	<35	<50		<100	<100	<50					<0.30	<0.30	<0.30		<0.30	<0.30	<0.30		<0.30	<0.30	<0.30
ADE-TP107-1.0-1.2	9/05/2022	<35	<35	<50		<100	<100	<50					<0.30	<0.30	<0.30		<0.30	<0.30	<0.30		<0.30	<0.30	<0.30
BWN_BH108-0.9-1.0	2/05/2022	<35	<35	<50		<100	<100	<50					<0.30	<0.30	<0.30		<0.30	<0.30	<0.30		<0.30	<0.30	<0.30
BWN_BH108-2.0	2/05/2022	<35	<35	<50		<100	<100	<50					<0.30	<0.30	<0.30		<0.30	<0.30	<0.30		<0.30	<0.30	<0.30
BH123 and Delineation Test Pits surrounding BH123																								
BUR_BH123_0.3	18/01/2022	<10	<10	<50	<50	120	<100	120					<0.5	<0.5	<0.5		2.6	2.8		3	1.7	1.2	2.3
BUR_BH123_0.12	18/01/2022	<10	<10	<50	<50	<100	<100	<50					<0.5	<0.5	<0.5		<0.5	<0.5		<0.5	<0.5	<0.5	<0.5
BUR_BH123_1.0	18/01/2022	<10	<10	<50	<50	<100	<100	<50					<0.5	<0.5	<0.5		<0.5	<0.5		<0.5	<0.5	<0.5	<0.5
BH123_DEL1N_0.0-0.2	18/01/2022																							
BH123_DEL1N_0.3-0.5	18/01/2022																							
BH123_DEL1E_0.0-0.2	18/01/2022																							
BH123_DEL1E_0.3-0.5	18/01/2022																							
BH123_DEL1S_0.0-0.2	18/01/2022																							
BH123_DEL1S_0.3-0.5	18/01/2022																							
BH123_DEL1W_0.0-0.2	18/01/2022																							
BH123_DEL1W_0.3-0.5	18/01/2022																							

* A Non Detect Multiplier of 0.5 has been applied.

1 - Chrysotile asbestos detected.

Table 1a - Station Box Footprint		PAH									Organochlorine Pesticides												
		Dibenz[a,h]anthracene	Fluoranthene	Fluorene	Indeno[1,2,3-c,d]pyrene	Naphthalene	Phenanthrene	Pyrene	PAHs (Sum of total)	PAHs (Sum of positives)	4,4-DDE	a-BHC	Aldrin	Aldrin + Dieldrin	b-BHC	Chlordane	Chlordane (cis)	Chlordane (trans)	d-BHC	DDD	DDT	DDT+DDE+DDD	Dieldrin
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.05	0.05
Berkman (1989) Background Ranges (VENM)																							
NSW 2014 General Solid Waste CT1 (No Leaching)									200														
NSW 2014 General Solid Waste SCC1 (with leached)									200														
NSW 2014 Restricted Solid Waste CT2 (No Leaching)									800														
NSW 2014 Restricted Solid Waste SCC2 (with leached)									800														
Field ID	**Date**																						
Fill Layer																							
BUR_BH103_0.1	16/12/2021	0.8	13.6	0.6	3.5	<0.5	8.1	12.9	78.7		0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	0.1	<0.05
BUR_BH103_0.7	16/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05
BUR_BH104_0.2	16/12/2021	<0.5	5.9	<0.5	1.2	<0.5	4.3	5.2	31		0.08	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	0.08	<0.05
BUR_BH106_0.2	17/12/2021	<0.5	5.8	<0.5	1.2	<0.5	3.7	5.7	30.8		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05
BUR_BH107_0.2	17/12/2021	<0.5	0.5	<0.5	<0.5	<0.5	0.5	<0.5	1		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05
BUR_BH108_0.2	17/12/2021	0.6	9.4	<0.5	2.2	<0.5	5.8	8.8	50.3		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05
BUR_BH108_0.5	17/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05
BUR_BH110_0.2	20/12/2021	<0.5	0.8	<0.5	<0.5	<0.5	<0.5	1	5.1		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05
BUR_BH110_0.5	20/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05
BUR_BH111_0.2	20/12/2021	<0.5	0.6	<0.5	<0.5	<0.5	0.6	0.9	2.1		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05
BUR_BH111_0.5	20/12/2021	<0.5	0.8	<0.5	<0.5	<0.5	<0.5	0.8	1.6		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05
BUR_BH112_0.2	21/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05
BUR_BH112_0.5	21/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05
BUR_BH113_0.2	20/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05
BUR_BH114_0.2	20/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05
BWN_BH105-0.4	2/05/2022	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30		<0.30	<0.10	<0.10	<0.10		<0.10		<0.10	<0.10	<0.10	<0.10	<0.10		<0.10
BWN_BH105-0.5-0.7	2/05/2022	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30		<0.30	<0.10	<0.10	<0.10		<0.10		<0.10	<0.10	<0.10	<0.10	<0.10		<0.10
BWN_BH106-0.4	2/05/2022	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30		<0.30	<0.10	<0.10	<0.10		<0.10		<0.10	<0.10	<0.10	<0.10	<0.10		<0.10
BWN_BH106-0.7	2/05/2022	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30		<0.30	<0.10	<0.10	<0.10		<0.10		<0.10	<0.10	<0.10	<0.10	<0.10		<0.10
BWN_BH106-1.1	2/05/2022	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30		<0.30	<0.10	<0.10	<0.10		<0.10		<0.10	<0.10	<0.10	<0.10	<0.10		<0.10
ADE-TP107-0.0-0.2	9/05/2022	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30		<0.30	<0.10	<0.10	<0.10		<0.10		<0.10	<0.10	<0.10	<0.10	<0.10		<0.10
ADE-TP107-0.3-0.5	9/05/2022	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30		<0.30	<0.10	<0.10	<0.10		<0.10		<0.10	<0.10	<0.10	<0.10	<0.10		<0.10
BWN_BH108-0.3	2/05/2022	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30		<0.30	<0.10	<0.10	<0.10		<0.10		<0.10	<0.10	<0.10	<0.10	<0.10		<0.10
BWN_BH108-0.5	2/05/2022	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30		<0.30	<0.10	<0.10	<0.10		<0.10		<0.10	<0.10	<0.10	<0.10	<0.10		<0.10
BWN_BH108_SR	23/042022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.05	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
BWN_BH108-BR	2/05/2022	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30		<0.30	<0.10	<0.10	<0.10		<0.10		<0.10	<0.10	<0.10	<0.10	<0.10		<0.10
Natural Layer																							
BUR_BH103_3.0	16/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05
BUR_BH103_5.0	16/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05
BUR_BH104_1.0	16/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05
BUR_BH104_4.0	16/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05
BUR_BH106_1.0	17/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05
BUR_BH106_2.0	17/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05
BUR_BH106_3.0	17/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05
BUR_BH106_4.0	17/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05
BUR_BH106_5.0	17/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05
BUR_BH107_1.0	17/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05
BUR_BH107_3.0	17/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05
BUR_BH107_5.0	17/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05
BUR_BH108_2.0	17/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05
BUR_BH108_5.8	17/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05
BUR_BH108_11.0	17/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	0.8	<0.5	0.8		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05
BUR_BH108_17.0	17/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05
BUR_BH108_20.0	17/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05
BUR_BH110_1.0	20/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05
BUR_BH110_5.0	20/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05
BUR_BH111_2.0	20/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05
BUR_BH111_5.0	20/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05
BUR_BH112_5.0	21/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05
BUR_BH113_1.0	20/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05
BUR_BH113_2.0	20/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05
BUR_BH113_5.0	20/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05
BUR_BH114_0.5	20/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05
BUR_BH114_5.0	20/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05
BUR_BH114_10.0	20/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05
BUR_BH114_15.0	20/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05
BWN_BH105-1.3	2/05/2022	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30		<0.30	<0.10	<0.10	<0.10		<0.10		<0.10	<0.10	<0.10	<0.10	<0.10		<0.10
BWN_BH105-2.8	2/05/2022	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.5	<0.30	<0.10	<0.10	<0.10		<0.10		<0.10	<0.10	<0.10	<0.10	<0.10		<0.10
BWN_BH106-1.7	2/05/2022	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.5	<0.30	<0.10	<0.10	<0.10		<0.10		<0.10	<0.10	<0.10	<0.10	<0.10		<0.10
ADE-TP107-1.0-1.2	9/05/2022	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30		<0.30	<0.10	<0.10	<0.10		<0.10		<0.10	<0.10	<0.10	<0.10	<0.10		<0.10
BWN_BH108-0.9-1.0	2/05/2022	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30		<0.30	<0.10	<0.10	<0.10		<0.10		<0.10	<0.10	<0.10	<0.10	<0.10		<0.10
BWN_BH108-2.0	2/05/2022	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30		<0.30	<0.10	<0.10	<0.10		<0.10		<0.10	<0.10	<0.10	<0.10	<0.10		<0.10
BH123 and Delineation Test Pits surrounding BH123																							
BUR_BH123_0.3	18/01/2022	<0.5	4.6	<0.5	1.4	<0.5	1.5	4.8	25.9		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05
BUR_BH123_0.12	18/01/2022	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05
BUR_BH123_1.0	18/01/2022	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05
BH123_DEL1N_0.0-0.2	18/01/2022																						
BH123_DEL1N_0.3-0.5	18/01/2022																						
BH123_DEL1E_0.0-0.2	18/01/2022																						
BH123_DEL1E_0.3-0.5	18/01/2022																						
BH123_DEL1S_0.0-0.2	18/01/2022																						
BH123_DEL1S_0.3-0.5	18/01/2022																						
BH123_DEL1W_0.0-0.2	18/01/2022																						
BH123_DEL1W_0.3-0.5	18/01/2022																						

* A Non Detect Multiplier of 0.5 has been applied.

1 - Chrysotile asbestos detected.

Table 1a - Station Box Footprint		Organochlorine Pesticides												Organophosphorous Pesticides									
		Endosulfan	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	Fenamiphos	g-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Methoxychlor	Azinophos methyl	Bromophos-ethyl	Carbophenothion	Chlorfenvinphos	Chlorpyrifos	Chlorpyrifos-methyl	Tribuphos	Demeton-S-methyl	Diazinon	Dichlorvos
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL		0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.05	0.05	0.05
Berkman (1989) Background Ranges (VENM)																							
NSW 2014 General Solid Waste CT1 (No Leaching)		60																4					
NSW 2014 General Solid Waste SCC1 (with leached)		108																7.5					
NSW 2014 Restricted Solid Waste CT2 (No Leaching)		240																16					
NSW 2014 Restricted Solid Waste SCC2 (with leached)		432																30					
Field ID	**Date**																						
Fill Layer																							
BUR_BH103_0.1	16/12/2021	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05
BUR_BH103_0.7	16/12/2021	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05
BUR_BH104_0.2	16/12/2021	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05
BUR_BH106_0.2	17/12/2021	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05
BUR_BH107_0.2	17/12/2021	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05
BUR_BH108_0.2	17/12/2021	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05
BUR_BH108_0.5	17/12/2021	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05
BUR_BH110_0.2	20/12/2021	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05
BUR_BH110_0.5	20/12/2021	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05
BUR_BH111_0.2	20/12/2021	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05
BUR_BH111_0.5	20/12/2021	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05
BUR_BH112_0.2	21/12/2021	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05
BUR_BH112_0.5	21/12/2021	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05
BUR_BH113_0.2	20/12/2021	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05
BUR_BH114_0.2	20/12/2021	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05
BWN_BH105-0.4	2/05/2022		<0.20	<0.20	<0.10	<0.20	<0.10	<0.10		<0.10	<0.10	<0.10	<0.10					<0.10	<0.10	<0.10		<0.10	
BWN_BH105-0.5-0.7	2/05/2022		<0.20	<0.20	<0.10	<0.20	<0.10	<0.10		<0.10	<0.10	<0.10	<0.10					<0.10	<0.10	<0.10		<0.10	
BWN_BH106-0.4	2/05/2022		<0.20	<0.20	<0.10	<0.20	<0.10	<0.10		<0.10	<0.10	<0.10	<0.10					<0.10	<0.10	<0.10		<0.10	
BWN_BH106-0.7	2/05/2022		<0.20	<0.20	<0.10	<0.20	<0.10	<0.10		<0.10	<0.10	<0.10	<0.10					<0.10	<0.10	<0.10		<0.10	
BWN_BH106-1.1	2/05/2022		<0.20	<0.20	<0.10	<0.20	<0.10	<0.10		<0.10	<0.10	<0.10	<0.10					<0.10	<0.10	<0.10		<0.10	
ADE-TP107-0.0-0.2	9/05/2022		<0.20	<0.20	<0.10	<0.20	<0.10	<0.10		<0.10	<0.10	<0.10	<0.10					<0.10	<0.10	<0.10		<0.10	
ADE-TP107-0.3-0.5	9/05/2022		<0.20	<0.20	<0.10	<0.20	<0.10	<0.10		<0.10	<0.10	<0.10	<0.10					<0.10	<0.10	<0.10		<0.10	
BWN_BH108-0.3	2/05/2022		<0.20	<0.20	<0.10	<0.20	<0.10	<0.10		<0.10	<0.10	<0.10	<0.10					<0.10	<0.10	<0.10		<0.10	
BWN_BH108-0.5	2/05/2022		<0.20	<0.20	<0.10	<0.20	<0.10	<0.10		<0.10	<0.10	<0.10	<0.10					<0.10	<0.10	<0.10		<0.10	
BWN_BH108_SR	23/042022	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
BWN_BH108-BR	2/05/2022		<0.20	<0.20	<0.10	<0.20	<0.10	<0.10		<0.10	<0.10	<0.10	<0.10					<0.10	<0.10	<0.10		<0.10	
Natural Layer																							
BUR_BH103_3.0	16/12/2021	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05
BUR_BH103_5.0	16/12/2021	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05
BUR_BH104_1.0	16/12/2021	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05
BUR_BH104_4.0	16/12/2021	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05
BUR_BH106_1.0	17/12/2021	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05
BUR_BH106_2.0	17/12/2021	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05
BUR_BH106_3.0	17/12/2021	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05
BUR_BH106_4.0	17/12/2021	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05
BUR_BH106_5.0	17/12/2021	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05
BUR_BH107_1.0	17/12/2021	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05
BUR_BH107_3.0	17/12/2021	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05
BUR_BH107_5.0	17/12/2021	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05
BUR_BH108_2.0	17/12/2021	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05
BUR_BH108_5.8	17/12/2021	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05
BUR_BH108_11.0	17/12/2021	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05
BUR_BH108_17.0	17/12/2021	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05
BUR_BH108_20.0	17/12/2021	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05
BUR_BH110_1.0	20/12/2021	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05
BUR_BH110_5.0	20/12/2021	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05
BUR_BH111_2.0	20/12/2021	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05
BUR_BH111_5.0	20/12/2021	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05
BUR_BH112_5.0	21/12/2021	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05
BUR_BH113_1.0	20/12/2021	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05
BUR_BH113_2.0	20/12/2021	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05
BUR_BH113_5.0	20/12/2021	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05
BUR_BH114_0.5	20/12/2021	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05
BUR_BH114_5.0	20/12/2021	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05
BUR_BH114_10.0	20/12/2021	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05
BUR_BH114_15.0	20/12/2021	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05
BWN_BH105-1.3	2/05/2022		<0.20	<0.20	<0.10	<0.20	<0.10	<0.10		<0.10	<0.10	<0.10	<0.10					<0.10	<0.10	<0.10		<0.10	
BWN_BH105-2.8	2/05/2022		<0.20	<0.20	<0.10	<0.20	<0.10	<0.10		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	
BWN_BH106-1.7	2/05/2022		<0.20	<0.20	<0.10	<0.20	<0.10	<0.10		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
ADE-TP107-1.0-1.2	9/05/2022		<0.20	<0.20	<0.10	<0.20	<0.10	<0.10		<0.10	<0.10	<0.10	<0.10					<0.10	<0.10	<0.10		<0.10	
BWN_BH108-0.9-1.0	2/05/2022		<0.20	<0.20	<0.10	<0.20	<0.10	<0.10		<0.10	<0.10	<0.10	<0.10					<0.10	<0.10	<0.10		<0.10	
BWN_BH108-2.0	2/05/2022		<0.20	<0.20	<0.10	<0.20	<0.10	<0.10		<0.10	<0.10	<0.10	<0.10					<0.10	<0.10	<0.10		<0.10	
BH123 and Delineation Test Pits surrounding BH123																							
BUR_BH123_0.3	18/01/2022	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05
BUR_BH123_0.12	18/01/2022	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05
BUR_BH123_1.0	18/01/2022	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05
BH123_DEL1N_0.0-0.2	18/01/2022																						
BH123_DEL1N_0.3-0.5	18/01/2022																						
BH123_DEL1E_0.0-0.2	18/01/2022																						
BH123_DEL1E_0.3-0.5	18/01/2022																						
BH123_DEL1S_0.0-0.2	18/01/2022																						
BH123_DEL1S_0.3-0.5	18/01/2022																						
BH123_DEL1W_0.0-0.2	18/01/2022																						
BH123_DEL1W_0.3-0.5	18/01/2022																						

* A Non Detect Multiplier of 0.5 has been applied.

1 - Chrysotile asbestos detected.

Table 1a - Station Box Footprint		Organophosphorous Pesticides												PCBs									CH	
		Dimethoate	Ethion	Ethoprop	Fenitrothion	Fenthion	Malathion	Methyl parathion	Monocrotophos	Parathion	Pirimiphos-ethyl	Prothiofos	Ronnel	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs (Sum of total)	1,1,1,2-tetrachloroethane	1,1,2,2-tetrachloroethane
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL		0.05	0.05	0.1	0.1	0.05	0.05	0.1	0.2	0.1	0.05	0.05	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	0.5
Berkman (1989) Background Ranges (VENM)																							
NSW 2014 General Solid Waste CT1 (No Leaching)																					50	200	26
NSW 2014 General Solid Waste SCC1 (with leached)																					50	360	46.8
NSW 2014 Restricted Solid Waste CT2 (No Leaching)																					50	800	104
NSW 2014 Restricted Solid Waste SCC2 (with leached)																					50	1,440	187.2
Field ID	**Date**																						
Fill Layer																							
BUR_BH103_0.1	16/12/2021	<0.05	<0.05			<0.05	<0.05	<0.2	<0.2	<0.2	<0.05	<0.05									<0.1	<0.5	<0.5
BUR_BH103_0.7	16/12/2021	<0.05	<0.05			<0.05	<0.05	<0.2	<0.2	<0.2	<0.05	<0.05									<0.1	<0.5	<0.5
BUR_BH104_0.2	16/12/2021	<0.05	<0.05			<0.05	<0.05	<0.2	<0.2	<0.2	<0.05	<0.05									<0.1	<0.5	<0.5
BUR_BH106_0.2	17/12/2021	<0.05	<0.05			<0.05	<0.05	<0.2	<0.2	<0.2	<0.05	<0.05									<0.1	<0.5	<0.5
BUR_BH107_0.2	17/12/2021	<0.05	<0.05			<0.05	<0.05	<0.2	<0.2	<0.2	<0.05	<0.05									<0.1		
BUR_BH108_0.2	17/12/2021	<0.05	<0.05			<0.05	<0.05	<0.2	<0.2	<0.2	<0.05	<0.05									<0.1	<0.5	<0.5
BUR_BH108_0.5	17/12/2021	<0.05	<0.05			<0.05	<0.05	<0.2	<0.2	<0.2	<0.05	<0.05									<0.1	<0.5	<0.5
BUR_BH110_0.2	20/12/2021	<0.05	<0.05			<0.05	<0.05	<0.2	<0.2	<0.2	<0.05	<0.05									**0.3**	<0.5	<0.5
BUR_BH110_0.5	20/12/2021	<0.05	<0.05			<0.05	<0.05	<0.2	<0.2	<0.2	<0.05	<0.05									<0.1		
BUR_BH111_0.2	20/12/2021	<0.05	<0.05			<0.05	<0.05	<0.2	<0.2	<0.2	<0.05	<0.05									<0.1	<0.5	<0.5
BUR_BH111_0.5	20/12/2021	<0.05	<0.05			<0.05	<0.05	<0.2	<0.2	<0.2	<0.05	<0.05									<0.1		
BUR_BH112_0.2	21/12/2021	<0.05	<0.05			<0.05	<0.05	<0.2	<0.2	<0.2	<0.05	<0.05									<0.1		
BUR_BH112_0.5	21/12/2021	<0.05	<0.05			<0.05	<0.05	<0.2	<0.2	<0.2	<0.05	<0.05									<0.1	<0.5	<0.5
BUR_BH113_0.2	20/12/2021	<0.05	<0.05			<0.05	<0.05	<0.2	<0.2	<0.2	<0.05	<0.05									<0.1	<0.5	<0.5
BUR_BH114_0.2	20/12/2021	<0.05	<0.05			<0.05	<0.05	<0.2	<0.2	<0.2	<0.05	<0.05									<0.1		
BWN_BH105-0.4	2/05/2022			<0.10				<0.10					<0.10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50	<0.50
BWN_BH105-0.5-0.7	2/05/2022			<0.10				<0.10					<0.10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50	<0.50
BWN_BH106-0.4	2/05/2022			<0.10				<0.10					<0.10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50	<0.50
BWN_BH106-0.7	2/05/2022			<0.10				<0.10					<0.10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50	<0.50
BWN_BH106-1.1	2/05/2022			<0.10				<0.10					<0.10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50	<0.50
ADE-TP107-0.0-0.2	9/05/2022			<0.10				<0.10					<0.10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50	<0.50
ADE-TP107-0.3-0.5	9/05/2022			<0.10				<0.10					<0.10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50	<0.50
BWN_BH108-0.3	2/05/2022			<0.10				<0.10					<0.10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50	<0.50
BWN_BH108-0.5	2/05/2022			<0.10				<0.10					<0.10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50	<0.50
BWN_BH108_SR	23/042022	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50	<0.50
BWN_BH108-BR	2/05/2022			<0.10				<0.10					<0.10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50	<0.50
Natural Layer																							
BUR_BH103_3.0	16/12/2021	<0.05	<0.05			<0.05	<0.05	<0.2	<0.2	<0.2	<0.05	<0.05									<0.1		
BUR_BH103_5.0	16/12/2021	<0.05	<0.05			<0.05	<0.05	<0.2	<0.2	<0.2	<0.05	<0.05									<0.1	<0.5	<0.5
BUR_BH104_1.0	16/12/2021	<0.05	<0.05			<0.05	<0.05	<0.2	<0.2	<0.2	<0.05	<0.05									<0.1	<0.5	<0.5
BUR_BH104_4.0	16/12/2021	<0.05	<0.05			<0.05	<0.05	<0.2	<0.2	<0.2	<0.05	<0.05									<0.1		
BUR_BH106_1.0	17/12/2021	<0.05	<0.05			<0.05	<0.05	<0.2	<0.2	<0.2	<0.05	<0.05									<0.1		
BUR_BH106_2.0	17/12/2021	<0.05	<0.05			<0.05	<0.05	<0.2	<0.2	<0.2	<0.05	<0.05									<0.1	<0.5	<0.5
BUR_BH106_3.0	17/12/2021	<0.05	<0.05			<0.05	<0.05	<0.2	<0.2	<0.2	<0.05	<0.05									<0.1		
BUR_BH106_4.0	17/12/2021	<0.05	<0.05			<0.05	<0.05	<0.2	<0.2	<0.2	<0.05	<0.05									<0.1	<0.5	<0.5
BUR_BH106_5.0	17/12/2021	<0.05	<0.05			<0.05	<0.05	<0.2	<0.2	<0.2	<0.05	<0.05									<0.1		
BUR_BH107_1.0	17/12/2021	<0.05	<0.05			<0.05	<0.05	<0.2	<0.2	<0.2	<0.05	<0.05									<0.1	<0.5	<0.5
BUR_BH107_3.0	17/12/2021	<0.05	<0.05			<0.05	<0.05	<0.2	<0.2	<0.2	<0.05	<0.05									<0.1	<0.5	<0.5
BUR_BH107_5.0	17/12/2021	<0.05	<0.05			<0.05	<0.05	<0.2	<0.2	<0.2	<0.05	<0.05									<0.1	<0.5	<0.5
BUR_BH108_2.0	17/12/2021	<0.05	<0.05			<0.05	<0.05	<0.2	<0.2	<0.2	<0.05	<0.05									<0.1		
BUR_BH108_5.8	17/12/2021	<0.05	<0.05			<0.05	<0.05	<0.2	<0.2	<0.2	<0.05	<0.05									<0.1	<0.5	<0.5
BUR_BH108_11.0	17/12/2021	<0.05	<0.05			<0.05	<0.05	<0.2	<0.2	<0.2	<0.05	<0.05									<0.1		
BUR_BH108_17.0	17/12/2021	<0.05	<0.05			<0.05	<0.05	<0.2	<0.2	<0.2	<0.05	<0.05									<0.1		
BUR_BH108_20.0	17/12/2021	<0.05	<0.05			<0.05	<0.05	<0.2	<0.2	<0.2	<0.05	<0.05									<0.1	<0.5	<0.5
BUR_BH110_1.0	20/12/2021	<0.05	<0.05			<0.05	<0.05	<0.2	<0.2	<0.2	<0.05	<0.05									<0.1	<0.5	<0.5
BUR_BH110_5.0	20/12/2021	<0.05	<0.05			<0.05	<0.05	<0.2	<0.2	<0.2	<0.05	<0.05									<0.1		
BUR_BH111_2.0	20/12/2021	<0.05	<0.05			<0.05	<0.05	<0.2	<0.2	<0.2	<0.05	<0.05									<0.1	<0.5	<0.5
BUR_BH111_5.0	20/12/2021	<0.05	<0.05			<0.05	<0.05	<0.2	<0.2	<0.2	<0.05	<0.05									<0.1		
BUR_BH112_5.0	21/12/2021	<0.05	<0.05			<0.05	<0.05	<0.2	<0.2	<0.2	<0.05	<0.05									<0.1	<0.5	<0.5
BUR_BH113_1.0	20/12/2021	<0.05	<0.05			<0.05	<0.05	<0.2	<0.2	<0.2	<0.05	<0.05									<0.1		
BUR_BH113_2.0	20/12/2021	<0.05	<0.05			<0.05	<0.05	<0.2	<0.2	<0.2	<0.05	<0.05									<0.1	<0.5	<0.5
BUR_BH113_5.0	20/12/2021	<0.05	<0.05			<0.05	<0.05	<0.2	<0.2	<0.2	<0.05	<0.05									<0.1		
BUR_BH114_0.5	20/12/2021	<0.05	<0.05			<0.05	<0.05	<0.2	<0.2	<0.2	<0.05	<0.05									<0.1	<0.5	<0.5
BUR_BH114_5.0	20/12/2021	<0.05	<0.05			<0.05	<0.05	<0.2	<0.2	<0.2	<0.05	<0.05									<0.1		
BUR_BH114_10.0	20/12/2021	<0.05	<0.05			<0.05	<0.05	<0.2	<0.2	<0.2	<0.05	<0.05									<0.1	<0.5	<0.5
BUR_BH114_15.0	20/12/2021	<0.05	<0.05			<0.05	<0.05	<0.2	<0.2	<0.2	<0.05	<0.05									<0.1		
BWN_BH105-1.3	2/05/2022			<0.10				<0.10					<0.10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50	<0.50
BWN_BH105-2.8	2/05/2022			<0.10				<0.10					<0.10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50	<0.50
BWN_BH106-1.7	2/05/2022	<0.10		<0.10				<0.10					<0.10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50	<0.50
ADE-TP107-1.0-1.2	9/05/2022			<0.10				<0.10					<0.10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50	<0.50
BWN_BH108-0.9-1.0	2/05/2022			<0.10				<0.10					<0.10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50	<0.50
BWN_BH108-2.0	2/05/2022			<0.10				<0.10					<0.10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50	<0.50
BH123 and Delineation Test Pits surrounding BH123																							
BUR_BH123_0.3	18/01/2022	<0.05	<0.05			<0.05	<0.05	<0.2	<0.2	<0.2	<0.05	<0.05									<0.1		
BUR_BH123_0.12	18/01/2022	<0.05	<0.05			<0.05	<0.05	<0.2	<0.2	<0.2	<0.05	<0.05									<0.1		
BUR_BH123_1.0	18/01/2022	<0.05	<0.05			<0.05	<0.05	<0.2	<0.2	<0.2	<0.05	<0.05									<0.1	<0.5	<0.5
BH123_DEL1N_0.0-0.2	18/01/2022																						
BH123_DEL1N_0.3-0.5	18/01/2022																						
BH123_DEL1E_0.0-0.2	18/01/2022																						
BH123_DEL1E_0.3-0.5	18/01/2022																						
BH123_DEL1S_0.0-0.2	18/01/2022																						
BH123_DEL1S_0.3-0.5	18/01/2022																						
BH123_DEL1W_0.0-0.2	18/01/2022																						
BH123_DEL1W_0.3-0.5	18/01/2022																						

* A Non Detect Multiplier of 0.5 has been applied.
1 - Chrysotile asbestos detected.

Table 1a - Station Box Footprint		Chlorinated Hydrocarbons																					
		1,1,2-trichloroethane	1,1-dichloroethane	1,1-dichloroethene	1,1-dichloropropene	1,2,3-trichloropropane	1,2-dibromo-3-chloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	2,2-dichloropropane	Bromochloromethane	Bromodichloromethane	Bromoform	Carbon tetrachloride	Chlorodibromomethane	Chloroethane	Chloroform	Chloromethane	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Dibromomethane	Dichloromethane
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	5	0.5	5	0.5	0.5	0.5	0.5
Berkman (1989) Background Ranges (VENM)																							
NSW 2014 General Solid Waste CT1 (No Leaching)		24		14				10							10			120					172
NSW 2014 General Solid Waste SCC1 (with leached)		43.2		25				18							18			126					310
NSW 2014 Restricted Solid Waste CT2 (No Leaching)		96		56				40							40			480					688
NSW 2014 Restricted Solid Waste SCC2 (with leached)		172.8		100				72							72			864					1,240
Field ID	Date																						
Fill Layer																							
BUR_BH103_0.1	16/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	
BUR_BH103_0.7	16/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	
BUR_BH104_0.2	16/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	
BUR_BH106_0.2	17/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	
BUR_BH107_0.2	17/12/2021																						
BUR_BH108_0.2	17/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	
BUR_BH108_0.5	17/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	
BUR_BH110_0.2	20/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	
BUR_BH110_0.5	20/12/2021																						
BUR_BH111_0.2	20/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	
BUR_BH111_0.5	20/12/2021																						
BUR_BH112_0.2	21/12/2021																						
BUR_BH112_0.5	21/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	
BUR_BH113_0.2	20/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	
BUR_BH114_0.2	20/12/2021																						
BWN_BH105-0.4	2/05/2022	<0.50		<0.50				<0.50				<0.50			<0.50			<0.50		<0.50			<0.50
BWN_BH105-0.5-0.7	2/05/2022	<0.50		<0.50				<0.50				<0.50			<0.50			<0.50		<0.50			<0.50
BWN_BH106-0.4	2/05/2022	<0.50		<0.50				<0.50				<0.50			<0.50			<0.50		<0.50			<0.50
BWN_BH106-0.7	2/05/2022	<0.50		<0.50				<0.50				<0.50			<0.50			<0.50		<0.50			<0.50
BWN_BH106-1.1	2/05/2022	<0.50		<0.50				<0.50				<0.50			<0.50			<0.50		<0.50			<0.50
ADE-TP107-0.0-0.2	9/05/2022	<0.50		<0.50				<0.50				<0.50			<0.50			<0.50		<0.50			<0.50
ADE-TP107-0.3-0.5	9/05/2022	<0.50		<0.50				<0.50				<0.50			<0.50			<0.50		<0.50			<0.50
BWN_BH108-0.3	2/05/2022	<0.50		<0.50				<0.50				<0.50			<0.50			<0.50		<0.50			<0.50
BWN_BH108-0.5	2/05/2022	<0.50		<0.50				<0.50				<0.50			<0.50			<0.50		<0.50			<0.50
BWN_BH108_SR	23/042022	<0.50		<0.50				<0.50				<0.50			<0.50			<0.50		<0.50			<0.50
BWN_BH108-BR	2/05/2022	<0.50		<0.50				<0.50				<0.50			<0.50			<0.50		<0.50			<0.50
Natural Layer																							
BUR_BH103_3.0	16/12/2021																						
BUR_BH103_5.0	16/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	
BUR_BH104_1.0	16/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	
BUR_BH104_4.0	16/12/2021																						
BUR_BH106_1.0	17/12/2021																						
BUR_BH106_2.0	17/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	
BUR_BH106_3.0	17/12/2021																						
BUR_BH106_4.0	17/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	
BUR_BH106_5.0	17/12/2021																						
BUR_BH107_1.0	17/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	
BUR_BH107_3.0	17/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	
BUR_BH107_5.0	17/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	
BUR_BH108_2.0	17/12/2021																						
BUR_BH108_5.8	17/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	
BUR_BH108_11.0	17/12/2021																						
BUR_BH108_17.0	17/12/2021																						
BUR_BH108_20.0	17/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	
BUR_BH110_1.0	20/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	
BUR_BH110_5.0	20/12/2021																						
BUR_BH111_2.0	20/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	
BUR_BH111_5.0	20/12/2021																						
BUR_BH112_5.0	21/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	
BUR_BH113_1.0	20/12/2021																						
BUR_BH113_2.0	20/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	
BUR_BH113_5.0	20/12/2021																						
BUR_BH114_0.5	20/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	
BUR_BH114_5.0	20/12/2021																						
BUR_BH114_10.0	20/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	
BUR_BH114_15.0	20/12/2021																						
BWN_BH105-1.3	2/05/2022	<0.50		<0.50				<0.50				<0.50			<0.50			<0.50		<0.50			<0.50
BWN_BH105-2.8	2/05/2022	<0.50		<0.50				<0.50				<0.50			<0.50			<0.50		<0.50			<0.50
BWN_BH106-1.7	2/05/2022	<0.50		<0.50				<0.50				<0.50			<0.50			<0.50		<0.50			<0.50
ADE-TP107-1.0-1.2	9/05/2022	<0.50		<0.50				<0.50				<0.50			<0.50			<0.50		<0.50			<0.50
BWN_BH108-0.9-1.0	2/05/2022	<0.50		<0.50				<0.50				<0.50			<0.50			<0.50		<0.50			<0.50
BWN_BH108-2.0	2/05/2022	<0.50		<0.50				<0.50				<0.50			<0.50			<0.50		<0.50			<0.50
BH123 and Delineation Test Pits surrounding BH123																							
BUR_BH123_0.3	18/01/2022																						
BUR_BH123_0.12	18/01/2022																						
BUR_BH123_1.0	18/01/2022	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	
BH123_DEL1N_0.0-0.2	18/01/2022																						
BH123_DEL1N_0.3-0.5	18/01/2022																						
BH123_DEL1E_0.0-0.2	18/01/2022																						
BH123_DEL1E_0.3-0.5	18/01/2022																						
BH123_DEL1S_0.0-0.2	18/01/2022																						
BH123_DEL1S_0.3-0.5	18/01/2022																						
BH123_DEL1W_0.0-0.2	18/01/2022																						
BH123_DEL1W_0.3-0.5	18/01/2022																						

* A Non Detect Multiplier of 0.5 has been applied.
1 - Chrysotile asbestos detected.

Table 1a - Station Box Footprint		Chlorinated Hydrocarbons										VOCs			PFAS	
		Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Other chlorinated hydrocarbons EPAVic	Total Chlorinated Hydrocarbons	Trichloroethene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Vinyl chloride	cis-1,4-Dichloro-2-butene	trans-1,4-Dichloro-2-butene	Pentachloroethane	Sum of PFHxS and PFOS	Sum of PFAS
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	µg/kg	µg/kg
EQL		0.5	2.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.2	0.2
Berkman (1989) Background Ranges (VENM)																
NSW 2014 General Solid Waste CT1 (No Leaching)							10	14			4					
NSW 2014 General Solid Waste SCC1 (with leached)							18	25.2			7.2				1,800	
NSW 2014 Restricted Solid Waste CT2 (No Leaching)							40	56			16					
NSW 2014 Restricted Solid Waste SCC2 (with leached)							72	100.8			28.8				7,200	
Field ID	**Date**															
Fill Layer																
BUR_BH103_0.1	16/12/2021	<0.5					<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<5
BUR_BH103_0.7	16/12/2021	<0.5					<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5		
BUR_BH104_0.2	16/12/2021	<0.5					<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<5
BUR_BH106_0.2	17/12/2021	<0.5					<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<5
BUR_BH107_0.2	17/12/2021														<5	<5
BUR_BH108_0.2	17/12/2021	<0.5					<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<5
BUR_BH108_0.5	17/12/2021	<0.5					<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<5
BUR_BH110_0.2	20/12/2021	<0.5					<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<5
BUR_BH110_0.5	20/12/2021															
BUR_BH111_0.2	20/12/2021	<0.5					<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5		
BUR_BH111_0.5	20/12/2021														<5	<5
BUR_BH112_0.2	21/12/2021														<5	<5
BUR_BH112_0.5	21/12/2021	<0.5					<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5		
BUR_BH113_0.2	20/12/2021	<0.5					<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<5
BUR_BH114_0.2	20/12/2021														<5	<5
BWN_BH105-0.4	2/05/2022	<0.50			<0.50	<0.50	<0.50	<0.50	<0.50		<0.50					
BWN_BH105-0.5-0.7	2/05/2022	<0.50			<0.50	<0.50	<0.50	<0.50	<0.50		<0.50					
BWN_BH106-0.4	2/05/2022	<0.50			<0.50	<0.50	<0.50	<0.50	<0.50		<0.50					
BWN_BH106-0.7	2/05/2022	<0.50			<0.50	<0.50	<0.50	<0.50	<0.50		<0.50					
BWN_BH106-1.1	2/05/2022	<0.50			<0.50	<0.50	<0.50	<0.50	<0.50		<0.50					
ADE-TP107-0.0-0.2	9/05/2022	<0.50			<0.50	<0.50	<0.50	<0.50	<0.50		<0.50					
ADE-TP107-0.3-0.5	9/05/2022	<0.50			<0.50	<0.50	<0.50	<0.50	<0.50		<0.50					
BWN_BH108-0.3	2/05/2022	<0.50			<0.50	<0.50	<0.50	<0.50	<0.50		<0.50					
BWN_BH108-0.5	2/05/2022	<0.50			<0.50	<0.50	<0.50	<0.50	<0.50		<0.50					
BWN_BH108_SR	23/042022	<0.50			<0.50	<0.50	<0.50	<0.50	<0.50		<0.50					
BWN_BH108-BR	2/05/2022	<0.50			<0.50	<0.50	<0.50	<0.50	<0.50		<0.50					
Natural Layer																
BUR_BH103_3.0	16/12/2021															
BUR_BH103_5.0	16/12/2021	<0.5					<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<5
BUR_BH104_1.0	16/12/2021	<0.5					<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5		
BUR_BH104_4.0	16/12/2021														<5	<5
BUR_BH106_1.0	17/12/2021															
BUR_BH106_2.0	17/12/2021	<0.5					<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5		
BUR_BH106_3.0	17/12/2021															
BUR_BH106_4.0	17/12/2021	<0.5					<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<5
BUR_BH106_5.0	17/12/2021															
BUR_BH107_1.0	17/12/2021	<0.5					<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5		
BUR_BH107_3.0	17/12/2021	<0.5					<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<5
BUR_BH107_5.0	17/12/2021	<0.5					<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5		
BUR_BH108_2.0	17/12/2021															
BUR_BH108_5.8	17/12/2021	<0.5					<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5		
BUR_BH108_11.0	17/12/2021															
BUR_BH108_17.0	17/12/2021															
BUR_BH108_20.0	17/12/2021	<0.5					<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<5
BUR_BH110_1.0	20/12/2021	<0.5					<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5		
BUR_BH110_5.0	20/12/2021														<5	<5
BUR_BH111_2.0	20/12/2021	<0.5					<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5		
BUR_BH111_5.0	20/12/2021														<5	<5
BUR_BH112_5.0	21/12/2021	<0.5					<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<5
BUR_BH113_1.0	20/12/2021															
BUR_BH113_2.0	20/12/2021	<0.5					<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5		
BUR_BH113_5.0	20/12/2021														<5	<5
BUR_BH114_0.5	20/12/2021	<0.5					<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5		
BUR_BH114_5.0	20/12/2021															
BUR_BH114_10.0	20/12/2021	<0.5					<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5		
BUR_BH114_15.0	20/12/2021														<5	<5
BWN_BH105-1.3	2/05/2022	<0.50			<0.50	<0.50	<0.50	<0.50	<0.50		<0.50					
BWN_BH105-2.8	2/05/2022	<0.50			<0.50	<0.50	<0.50	<0.50	<0.50		<0.50					
BWN_BH106-1.7	2/05/2022	<0.50			<0.50	<0.50	<0.50	<0.50	<0.50		<0.50					
ADE-TP107-1.0-1.2	9/05/2022	<0.50			<0.50	<0.50	<0.50	<0.50	<0.50		<0.50					
BWN_BH108-0.9-1.0	2/05/2022	<0.50			<0.50	<0.50	<0.50	<0.50	<0.50		<0.50					
BWN_BH108-2.0	2/05/2022	<0.50			<0.50	<0.50	<0.50	<0.50	<0.50		<0.50					
BH123 and Delineation Test Pits surrounding BH123																
BUR_BH123_0.3	18/01/2022															
BUR_BH123_0.12	18/01/2022															
BUR_BH123_1.0	18/01/2022	<0.5					<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.2	<0.2
BH123_DEL1N_0.0-0.2	18/01/2022															
BH123_DEL1N_0.3-0.5	18/01/2022															
BH123_DEL1E_0.0-0.2	18/01/2022															
BH123_DEL1E_0.3-0.5	18/01/2022															
BH123_DEL1S_0.0-0.2	18/01/2022															
BH123_DEL1S_0.3-0.5	18/01/2022															
BH123_DEL1W_0.0-0.2	18/01/2022															
BH123_DEL1W_0.3-0.5	18/01/2022															

* A Non Detect Multiplier of 0.5 has been applied.
1 - Chrysotile asbestos detected.

Table 1b - SES Footprint		Asbestos	Metals								BTEX								TPH				
		Asbestos Type	Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc	Benzene	Toluene	Ethylbenzene	Xylene (m & p)	Xylene (o)	Xylene Total	Naphthalene (VOC)	Total BTEX	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum)
		Presence/ Absence	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL			4	0.3	1	1	1	0.1	1	1	0.2	0.5	0.5	0.5	0.5	0.5	1	0.2	10	50	100	100	50
Berkman (1989) Background Ranges (VENM)			50	1	1,000	100	200	0.03	500	300													
NSW 2014 General Solid Waste CT1 (No Leaching)			100	20	100		100	4	40		10	288	600			1,000			650				10,000
NSW 2014 General Solid Waste SCC1 (with leached)			500	100	1900		1,500	50	1,050		18	518	1,080			1,800			650				10,000
NSW 2014 Restricted Solid Waste CT2 (No Leaching)			400	80	400		400	16	160		40	1,152	2,400			4,000			2,600				40,000
NSW 2014 Restricted Solid Waste SCC2 (with leached)			2,000	400	7600		6,000	200	4,200		72	2,073	4,320			7,200			2,600				40,000
Field ID	Date																						
Fill Layer																							
BUR_BH115_0.2	21/12/2021	0	9	<1	42	76	263	0.1	59	333	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<10	<50	150	150	300
BUR_BH115_0.5	21/12/2021		6	<1	20	42	4,380	0.1	20	280	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<10	<50	<100	<100	<50
BUR_BH115_1.0	21/12/2021		5	<1	20	13	186	<0.1	3	14	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<10	<50	<100	<100	<50
BUR_BH125_0.2	21/12/2021	0	10	<1	18	53	445	0.2	9	286	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<10	<50	160	130	290
SES-BH1-0.0-0.2	9/05/2022	0	<5.0	<0.30	45.6	304.8	400.3	<0.20	159.8	973.2	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0		<1.0	<35	<50	<100	<100	<50
SES-BH1-0.3-0.5	9/05/2022	0	<5.0	<0.30	<5.0	10.7	<10.0	<0.20	11.9	<5.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0		<1.0	<35	<50	<100	<100	<50
SES-BH2-0.0-0.2	9/05/2022	0	<5.0	<0.30	7.4	36.0	23.7	<0.20	13.8	27.3	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0		<1.0	<35	<50	<100	<100	<50
SES-BH2-0.3-0.5	9/05/2022	0	11.3	<0.30	11.6	14.3	15.4	<0.20	<10.0	13.1	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0		<1.0	<35	<50	<100	<100	<50
SES-BH3-0.0-0.2	9/05/2022	0	<5.0	<0.30	8.5	24.0	334.9	<0.20	<10.0	97.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0		<1.0	<35	<50	<100	<100	<50
SES-BH3-0.3-0.5	9/05/2022	0	7.2	<0.30	14.9	15.3	86.9	<0.20	<10.0	26.7	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0		<1.0	<35	<50	<100	<100	<50
SES-BH4-0.0-0.2	9/05/2022	0	15.5	<0.30	20.3	6.4	10.7	<0.20	<10.0	<5.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0		<1.0	<35	<50	<100	<100	<50
SES-BH4-0.3-0.5	9/05/2022	0	14.1	<0.30	21.1	6.3	13.7	<0.20	<10.0	<5.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0		<1.0	<35	<50	<100	<100	<50
SES-BH4-1.0-1.2	9/05/2022	0	20.9	<0.30	6.1	13.7	<10.0	<0.20	<10.0	<5.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0		<1.0	<35	<50	<100	<100	<50
SES-BH1-BR2	9/05/2022		<5.0	<0.30	15.2	122.9	194.1	<0.20	57.3	329.6	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0		<1.0	<35	<50	<100	<100	<50
SES-BH4-SR2	6/05/2022		6	<0.4	21	10	20	<0.1	3	3	<0.2	<0.5	<1	<2	<1	<1	<1		<25	<50	<100	<100	<50
Natural Layer																							
BUR_BH115_5.0	21/12/2021		9	<1	11	56	19	<0.1	26	115	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<10	<50	<100	<100	<50
BUR_BH115_10.0	21/12/2021		11	<1	16	34	21	<0.1	21	79	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<10	<50	<100	<100	<50
BUR_BH115_15.0	21/12/2021		8	<1	9	40	20	<0.1	24	87	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	44	150	300	<100	450
BUR_BH125_5.0	21/12/2021		7	<1	14	21	21	<0.1	2	18	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<10	<50	<100	<100	<50
SES-BH1-1.0-1.2	9/05/2022	0	12.5	<0.30	17.8	14.9	22.2	<0.20	<10.0	112.9	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0		<1.0	<35	<50	<100	<100	<50
SES-BH2-1.0-1.2	9/05/2022	0	10.7	<0.30	18.7	277.4	565.2	<0.20	28.6	456.8	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0		<1.0	<35	<50	<100	<100	<50
SES-BH3-1.0-1.2	9/05/2022	0	11.8	<0.30	16.7	8.0	14.9	<0.20	<10.0	<5.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0		<1.0	<35	<50	<100	<100	<50
SES-BH4-1.2-1.3	9/05/2022	0	6.9	<0.30	<5.0	7.2	<10.0	<0.20	<10.0	<5.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0		<1.0	<35	<50	<100	<100	<50
BH116 and Delineation Test Pits surrounding BH116																							
BUR_BH116_0.2	21/12/2021		8	<1	21	132	746	0.4	13	633	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<10	<50	440	290	730
BUR_BH116_0.2 ACM	21/12/2021	1																					
BUR_BH116_0.5	21/12/2021		6	<1	18	12	55	<0.1	3	515	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<10	<50	<100	<100	<50
BUR_BH116_3.0	21/12/2021		7	<1	8	30	18	<0.1	<2	10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<10	<50	<100	<100	<50
BH116-DEL1E-0.0-0.2	9/05/2022	0	6.5	<0.30	16.2	143.2	999.6	0.45	20.7	1,225.1	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0		<1.0	<35	<50	<100	<100	<50
BH116-DEL1E-0.3-0.5	9/05/2022	0	8.3	<0.30	14.4	33.3	146.4	<0.20	<10.0	95.3	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0		<1.0	<35	<50	<100	<100	<50
BH116-DEL1N-0.0-0.2	9/05/2022	0	<5.0	<0.30	17.2	76.2	421.9	0.31	11.1	289.6	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0		<1.0	<35	<50	<100	<100	<50
BH116-DEL1N-0.3-0.5	9/05/2022	0	10.3	<0.30	15.9	10.7	<10.0	<0.20	<10.0	<5.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0		<1.0	<35	<50	<100	<100	<50
BH116-DEL1S-0.0-0.2	9/05/2022	0	6.7	<0.30	19.6	93.7	743.3	0.93	29.8	621.9	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0		<1.0	<35	<50	<100	<100	<50
BH116-DEL1S-0.3-0.5	9/05/2022	0	9.2	<0.30	12.6	8.8	<10.0	<0.20	<10.0	<5.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0		<1.0	<35	<50	<100	<100	<50
BH116-DEL1W-0.0-0.2	9/05/2022	0	<5.0	<0.30	19.7	54.2	556.1	0.44	16.3	428.3	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0		<1.0	<35	<50	<100	<100	<50
BH116-DEL1W-0.3-0.5	9/05/2022	0	9.3	<0.30	16.3	13.1	56.7	<0.20	<10.0	26.6	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0		<1.0	<35	<50	<100	<100	<50

* A Non Detect Multiplier of 0.5 has been applied.

1 - Chrysotile, amosite and crocodilite asbestos detected.

Table 1b - SES Footprint		TRH							PAH														
		C6-C10 Fraction (F1)	C6-C10 (F1 minus BTEX)	>C10-C16 Fraction (F2)	>C10-C16 Fraction (F2 minus Naphthalene)	>C16-C34 Fraction (F3)	>C34-C40 Fraction (F4)	>C10-C40 Fraction (Sum)	2-chloronaphthalene	2-methylnaphthalene	3-methylcholanthrene	7,12-dimethylbenz(a)anthracene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(b+j+k)fluoranthene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(b)fluoranthene	Benzo(b+j)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL		10	10	50	50	100	100	50	0.5	0.5	0.5	0.5	0.1	0.1	0.1	0.2	0.1	0.05	0.3	0.5	0.1	0.3	0.1
Berkman (1989) Background Ranges (VENM)																							
NSW 2014 General Solid Waste CT1 (No Leaching)																		0.8					
NSW 2014 General Solid Waste SCC1 (with leached)																		10					
NSW 2014 Restricted Solid Waste CT2 (No Leaching)																		3.2					
NSW 2014 Restricted Solid Waste SCC2 (with leached)																		23					
Field ID	**Date**																						
Fill Layer																							
BUR_BH115_0.2	21/12/2021	<10	<10	<50	<50	250	<100	250					<0.5	0.6	1		3.1	2.6		3.1	1.7	1.4	2.5
BUR_BH115_0.5	21/12/2021	<10	<10	<50	<50	<100	<100	<50					<0.5	<0.5	<0.5		1	1.2		1.3	0.8	0.6	0.8
BUR_BH115_1.0	21/12/2021	<10	<10	<50	<50	<100	<100	<50					<0.5	<0.5	<0.5		<0.5	<0.5		<0.5	<0.5	<0.5	<0.5
BUR_BH125_0.2	21/12/2021	<10	<10	<50	<50	240	<100	240					<0.5	0.7	1		3.2	3.6		4.1	2.2	1.5	3
SES-BH1-0.0-0.2	9/05/2022	<35	<35	<50		<100	<100	<50					<0.30	<0.30	<0.30		<0.30	<0.30	<0.30		<0.30	<0.30	<0.30
SES-BH1-0.3-0.5	9/05/2022	<35	<35	<50		<100	<100	<50					<0.30	<0.30	<0.30		<0.30	<0.30	<0.30		<0.30	<0.30	<0.30
SES-BH2-0.0-0.2	9/05/2022	<35	<35	<50		<100	<100	<50					<0.30	<0.30	<0.30		<0.30	<0.30	<0.30		<0.30	<0.30	<0.30
SES-BH2-0.3-0.5	9/05/2022	<35	<35	<50		<100	<100	<50					<0.30	<0.30	<0.30		<0.30	<0.30	<0.30		<0.30	<0.30	<0.30
SES-BH3-0.0-0.2	9/05/2022	<35	<35	<50		<100	<100	<50					<0.30	<0.30	<0.30		<0.30	<0.30	<0.30		<0.30	<0.30	<0.30
SES-BH3-0.3-0.5	9/05/2022	<35	<35	<50		<100	<100	<50					<0.30	<0.30	<0.30		<0.30	<0.30	0.39		<0.30	0.36	<0.30
SES-BH4-0.0-0.2	9/05/2022	<35	<35	<50		<100	<100	<50					<0.30	<0.30	<0.30		<0.30	<0.30	<0.30		<0.30	<0.30	<0.30
SES-BH4-0.3-0.5	9/05/2022	<35	<35	<50		<100	<100	<50					<0.30	<0.30	<0.30		<0.30	<0.30	<0.30		<0.30	<0.30	<0.30
SES-BH4-1.0-1.2	9/05/2022	<35	<35	<50		<100	<100	<50					<0.30	<0.30	<0.30		<0.30	<0.30	<0.30		<0.30	<0.30	<0.30
SES-BH1-BR2	9/05/2022	<35	<35	<50		<100	<100	<50					<0.30	<0.30	<0.30		<0.30	<0.30	<0.30		<0.30	<0.30	<0.30
SES-BH4-SR2	6/05/2022	<25	<25	<50	<50	<100	<100	<50					<0.1	<0.1	<0.1	<0.2	<0.1	<0.05			<0.1		<0.1
Natural Layer																							
BUR_BH115_5.0	21/12/2021	<10	<10	<50	<50	<100	<100	<50					<0.5	<0.5	<0.5		<0.5	<0.5		<0.5	<0.5	<0.5	<0.5
BUR_BH115_10.0	21/12/2021	<10	<10	<50	<50	<100	<100	<50					<0.5	<0.5	<0.5		<0.5	<0.5		<0.5	<0.5	<0.5	<0.5
BUR_BH115_15.0	21/12/2021	69	69	170	170	300	<100	470					<0.5	<0.5	<0.5		<0.5	<0.5		<0.5	<0.5	<0.5	<0.5
BUR_BH125_5.0	21/12/2021	<10	<10	<50	<50	<100	<100	<50					<0.5	<0.5	<0.5		<0.5	<0.5		<0.5	<0.5	<0.5	<0.5
SES-BH1-1.0-1.2	9/05/2022	<35	<35	<50		<100	<100	<50					<0.30	<0.30	<0.30		<0.30	<0.30	<0.30		<0.30	<0.30	<0.30
SES-BH2-1.0-1.2	9/05/2022	<35	<35	<50		<100	<100	<50					<0.30	<0.30	0.49		1.12	1.05	1.62		0.64	1.58	1.01
SES-BH3-1.0-1.2	9/05/2022	<35	<35	<50		<100	<100	<50					<0.30	<0.30	<0.30		<0.30	<0.30	<0.30		<0.30	<0.30	<0.30
SES-BH4-1.2-1.3	9/05/2022	<35	<35	<50		<100	<100	<50					<0.30	<0.30	<0.30		<0.30	<0.30	<0.30		<0.30	<0.30	<0.30
BH116 and Delineation Test Pits surrounding BH116																							
BUR_BH116_0.2	21/12/2021	<10	<10	<50	<50	630	200	830					<0.5	4.4	8.4		16.1	14.5		17.2	8	6.8	14.4
BUR_BH116_0.2 ACM	21/12/2021																						
BUR_BH116_0.5	21/12/2021	<10	<10	<50	<50	<100	<100	<50					<0.5	<0.5	<0.5		<0.5	<0.5		<0.5	<0.5	<0.5	<0.5
BUR_BH116_3.0	21/12/2021	<10	<10	<50	<50	<100	<100	<50					<0.5	<0.5	<0.5		<0.5	<0.5		<0.5	<0.5	<0.5	<0.5
BH116-DEL1E-0.0-0.2	9/05/2022	<35	<35	<50		<100	<100	<50					<0.30	<0.30	0.38		1.06	0.98	1.60		0.64	1.56	0.96
BH116-DEL1E-0.3-0.5	9/05/2022	<35	<35	<50		<100	<100	<50					<0.30	<0.30	<0.30		<0.30	0.32	0.46		<0.30	0.45	<0.30
BH116-DEL1N-0.0-0.2	9/05/2022	<35	<35	<50		<100	<100	<50					<0.30	<0.30	0.40		1.23	1.20	1.94		0.81	1.89	1.12
BH116-DEL1N-0.3-0.5	9/05/2022	<35	<35	<50		<100	<100	<50					<0.30	<0.30	<0.30		<0.30	<0.30	<0.30		<0.30	<0.30	<0.30
BH116-DEL1S-0.0-0.2	9/05/2022	<35	<35	<50		<100	<100	<50					<0.30	<0.30	0.66		1.89	1.87	3.02		1.26	2.94	1.75
BH116-DEL1S-0.3-0.5	9/05/2022	<35	<35	<50		<100	<100	<50					<0.30	<0.30	<0.30		<0.30	<0.30	<0.30		<0.30	<0.30	<0.30
BH116-DEL1W-0.0-0.2	9/05/2022	<35	<35	<50		<100	<100	<50					<0.30	<0.30	<0.30		0.54	0.54	0.87		0.38	0.85	0.49
BH116-DEL1W-0.3-0.5	9/05/2022	<35	<35	<50		<100	<100	<50					<0.30	<0.30	<0.30		0.43	0.73	0.95		0.79	0.92	0.40

* A Non Detect Multiplier of 0.5 has been applied.

1 - Chrysotile, amosite and crocodilite asbestos detected.

Table 1b - SES Footprint		PAH									Organochlorine Pesticides												
		Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	PAHs (Sum of total)	PAHs (Sum of positives)	4,4-DDE	a-BHC	Aldrin	Aldrin + Dieldrin	b-BHC	Chlordane	Chlordane (cis)	Chlordane (trans)	d-BHC	DDD	DDT	DDT+DDE+DDD	Dieldrin
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.05	0.05
Berkman (1989) Background Ranges (VENM)																							
NSW 2014 General Solid Waste CT1 (No Leaching)									200														
NSW 2014 General Solid Waste SCC1 (with leached)									200														
NSW 2014 Restricted Solid Waste CT2 (No Leaching)									800														
NSW 2014 Restricted Solid Waste SCC2 (with leached)									800														
Field ID	**Date**																						
Fill Layer																							
BUR_BH115_0.2	21/12/2021	<0.5	7.1	<0.5	1.5	<0.5	3.6	6.7	34.9		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05
BUR_BH115_0.5	21/12/2021	<0.5	1.8	<0.5	0.6	<0.5	0.6	1.8	10.5		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05
BUR_BH115_1.0	21/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05
BUR_BH125_0.2	21/12/2021	<0.5	6.1	<0.5	2	<0.5	3.4	6.1	36.9		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05
SES-BH1-0.0-0.2	9/05/2022	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30		<0.30	<0.10	<0.10	<0.10		<0.10		<0.10	<0.10	<0.10	<0.10	<0.10		<0.10
SES-BH1-0.3-0.5	9/05/2022	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30		<0.30	<0.10	<0.10	<0.10		<0.10		<0.10	<0.10	<0.10	<0.10	<0.10		<0.10
SES-BH2-0.0-0.2	9/05/2022	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30		<0.30	<0.10	<0.10	<0.10		<0.10		<0.10	<0.10	<0.10	<0.10	<0.10		<0.10
SES-BH2-0.3-0.5	9/05/2022	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30		<0.30	<0.10	<0.10	<0.10		<0.10		<0.10	<0.10	<0.10	<0.10	<0.10		<0.10
SES-BH3-0.0-0.2	9/05/2022	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30		<0.30	<0.10	<0.10	<0.10		<0.10		<0.10	<0.10	<0.10	<0.10	<0.10		<0.10
SES-BH3-0.3-0.5	9/05/2022	<0.30	0.44	<0.30	<0.30	<0.30	<0.30	0.44		1.63	<0.10	<0.10	<0.10		<0.10		<0.10	<0.10	<0.10	<0.10	<0.10		<0.10
SES-BH4-0.0-0.2	9/05/2022	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30		<0.30	<0.10	<0.10	<0.10		<0.10		<0.10	<0.10	<0.10	<0.10	<0.10		<0.10
SES-BH4-0.3-0.5	9/05/2022	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30		<0.30	<0.10	<0.10	<0.10		<0.10		<0.10	<0.10	<0.10	<0.10	<0.10		<0.10
SES-BH4-1.0-1.2	9/05/2022	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30		<0.30	<0.10	<0.10	<0.10		<0.10		<0.10	<0.10	<0.10	<0.10	<0.10		<0.10
SES-BH1-BR2	9/05/2022	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30		<0.30	<0.10	<0.10	<0.10		<0.10		<0.10	<0.10	<0.10	<0.10	<0.10		<0.10
SES-BH4-SR2	6/05/2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		<0.05	<0.1	<0.1	<0.1		<0.1		<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Natural Layer																							
BUR_BH115_5.0	21/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05
BUR_BH115_10.0	21/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05
BUR_BH115_15.0	21/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	1.1	<0.5	1.1		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05
BUR_BH125_5.0	21/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05
SES-BH1-1.0-1.2	9/05/2022	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30		<0.30	<0.10	<0.10	<0.10		<0.10		<0.10	<0.10	<0.10	<0.10	<0.10		<0.10
SES-BH2-1.0-1.2	9/05/2022	<0.30	2.48	<0.30	0.68	<0.30	1.97	2.46		15.10	<0.10	<0.10	<0.10		<0.10		<0.10	<0.10	<0.10	<0.10	<0.10		<0.10
SES-BH3-1.0-1.2	9/05/2022	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30		<0.30	<0.10	<0.10	<0.10		<0.10		<0.10	<0.10	<0.10	<0.10	<0.10		<0.10
SES-BH4-1.2-1.3	9/05/2022	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30		<0.30	<0.10	<0.10	<0.10		<0.10		<0.10	<0.10	<0.10	<0.10	<0.10		<0.10
BH116 and Delineation Test Pits surrounding BH116																							
BUR_BH116_0.2	21/12/2021	1.8	38.8	1.9	7.3	<1	32.6	34.8	208		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05
BUR_BH116_0.2 ACM	21/12/2021																						
BUR_BH116_0.5	21/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05
BUR_BH116_3.0	21/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05
BH116-DEL1E-0.0-0.2	9/05/2022	<0.30	2.57	<0.30	0.70	<0.30	1.73	2.42		14.60	<0.10	<0.10	<0.10		<0.10		<0.10	<0.10	<0.10	<0.10	<0.10		<0.10
BH116-DEL1E-0.3-0.5	9/05/2022	<0.30	0.45	<0.30	<0.30	<0.30	<0.30	0.45		2.13	<0.10	<0.10	<0.10		<0.10		<0.10	<0.10	<0.10	<0.10	<0.10		<0.10
BH116-DEL1N-0.0-0.2	9/05/2022	<0.30	2.77	<0.30	0.86	<0.30	1.55	2.64		16.41	<0.10	<0.10	<0.10		<0.10		<0.10	<0.10	<0.10	<0.10	<0.10		<0.10
BH116-DEL1N-0.3-0.5	9/05/2022	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30		<0.30	<0.10	<0.10	<0.10		<0.10		<0.10	<0.10	<0.10	<0.10	<0.10		<0.10
BH116-DEL1S-0.0-0.2	9/05/2022	<0.30	4.49	<0.30	1.33	<0.30	3.03	4.27		26.51	<0.10	<0.10	<0.10		<0.10		<0.10	<0.10	<0.10	<0.10	<0.10		<0.10
BH116-DEL1S-0.3-0.5	9/05/2022	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30		<0.30	<0.10	<0.10	<0.10		<0.10		<0.10	<0.10	<0.10	<0.10	<0.10		<0.10
BH116-DEL1W-0.0-0.2	9/05/2022	<0.30	1.10	<0.30	0.39	<0.30	0.54	1.08		6.78	<0.10	<0.10	<0.10		<0.10		<0.10	<0.10	<0.10	<0.10	<0.10		<0.10
BH116-DEL1W-0.3-0.5	9/05/2022	<0.30	0.74	<0.30	0.75	<0.30	0.31	0.76		6.78	<0.10	<0.10	<0.10		<0.10		<0.10	<0.10	<0.10	<0.10	<0.10		<0.10

* A Non Detect Multiplier of 0.5 has been applied.
1 - Chrysotile, amosite and crocodilite asbestos detected.

Table 1b - SES Footprint		Organochlorine Pesticides												Organophosphorous Pesticides									
		Endosulfan	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	Fenamiphos	g-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Methoxychlor	Azinophos methyl	Bromophos-ethyl	Carbophenothion	Chlorfenvinphos	Chlorpyrifos	Chlorpyrifos-methyl	Tribuphos	Demeton-S-methyl	Diazinon	Dichlorvos
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL		0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.05	0.05	0.05
Berkman (1989) Background Ranges (VENM)																							
NSW 2014 General Solid Waste CT1 (No Leaching)		60																4					
NSW 2014 General Solid Waste SCC1 (with leached)		108																7.5					
NSW 2014 Restricted Solid Waste CT2 (No Leaching)		240																16					
NSW 2014 Restricted Solid Waste SCC2 (with leached)		432																30					
Field ID	**Date**																						
Fill Layer																							
BUR_BH115_0.2	21/12/2021	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05
BUR_BH115_0.5	21/12/2021	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05
BUR_BH115_1.0	21/12/2021	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05
BUR_BH125_0.2	21/12/2021	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05
SES-BH1-0.0-0.2	9/05/2022		<0.20	<0.20	<0.10	<0.20	<0.10	<0.10		<0.10	<0.10	<0.10	<0.10					<0.10	<0.10	<0.10		<0.10	
SES-BH1-0.3-0.5	9/05/2022		<0.20	<0.20	<0.10	<0.20	<0.10	<0.10		<0.10	<0.10	<0.10	<0.10					<0.10	<0.10	<0.10		<0.10	
SES-BH2-0.0-0.2	9/05/2022		<0.20	<0.20	<0.10	<0.20	<0.10	<0.10		<0.10	<0.10	<0.10	<0.10					<0.10	<0.10	<0.10		<0.10	
SES-BH2-0.3-0.5	9/05/2022		<0.20	<0.20	<0.10	<0.20	<0.10	<0.10		<0.10	<0.10	<0.10	<0.10					<0.10	<0.10	<0.10		<0.10	
SES-BH3-0.0-0.2	9/05/2022		<0.20	<0.20	<0.10	<0.20	<0.10	<0.10		<0.10	<0.10	<0.10	<0.10					<0.10	<0.10	<0.10		<0.10	
SES-BH3-0.3-0.5	9/05/2022		<0.20	<0.20	<0.10	<0.20	<0.10	<0.10		<0.10	<0.10	<0.10	<0.10					<0.10	<0.10	<0.10		<0.10	
SES-BH4-0.0-0.2	9/05/2022		<0.20	<0.20	<0.10	<0.20	<0.10	<0.10		<0.10	<0.10	<0.10	<0.10					<0.10	<0.10	<0.10		<0.10	
SES-BH4-0.3-0.5	9/05/2022		<0.20	<0.20	<0.10	<0.20	<0.10	<0.10		<0.10	<0.10	<0.10	<0.10					<0.10	<0.10	<0.10		<0.10	
SES-BH4-1.0-1.2	9/05/2022		<0.20	<0.20	<0.10	<0.20	<0.10	<0.10		<0.10	<0.10	<0.10	<0.10					<0.10	<0.10	<0.10		<0.10	
SES-BH1-BR2	9/05/2022		<0.20	<0.20	<0.10	<0.20	<0.10	<0.10		<0.10	<0.10	<0.10	<0.10					<0.10	<0.10	<0.10		<0.10	
SES-BH4-SR2	6/05/2022		<0.1	<0.1	<0.1	<0.1	<0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			<0.1	<0.1			<0.1	<0.1
Natural Layer																							
BUR_BH115_5.0	21/12/2021	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05
BUR_BH115_10.0	21/12/2021	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05
BUR_BH115_15.0	21/12/2021	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05
BUR_BH125_5.0	21/12/2021	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05
SES-BH1-1.0-1.2	9/05/2022		<0.20	<0.20	<0.10	<0.20	<0.10	<0.10		<0.10	<0.10	<0.10	<0.10					<0.10	<0.10	<0.10		<0.10	
SES-BH2-1.0-1.2	9/05/2022		<0.20	<0.20	<0.10	<0.20	<0.10	<0.10		<0.10	<0.10	<0.10	<0.10					<0.10	<0.10	<0.10		<0.10	
SES-BH3-1.0-1.2	9/05/2022		<0.20	<0.20	<0.10	<0.20	<0.10	<0.10		<0.10	<0.10	<0.10	<0.10					<0.10	<0.10	<0.10		<0.10	
SES-BH4-1.2-1.3	9/05/2022		<0.20	<0.20	<0.10	<0.20	<0.10	<0.10		<0.10	<0.10	<0.10	<0.10					<0.10	<0.10	<0.10		<0.10	
BH116 and Delineation Test Pits surrounding BH116																							
BUR_BH116_0.2	21/12/2021	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05
BUR_BH116_0.2 ACM	21/12/2021																						
BUR_BH116_0.5	21/12/2021	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05
BUR_BH116_3.0	21/12/2021	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05
BH116-DEL1E-0.0-0.2	9/05/2022		<0.20	<0.20	<0.10	<0.20	<0.10	<0.10		<0.10	<0.10	<0.10	<0.10					<0.10	<0.10	<0.10		<0.10	
BH116-DEL1E-0.3-0.5	9/05/2022		<0.20	<0.20	<0.10	<0.20	<0.10	<0.10		<0.10	<0.10	<0.10	<0.10					<0.10	<0.10	<0.10		<0.10	
BH116-DEL1N-0.0-0.2	9/05/2022		<0.20	<0.20	<0.10	<0.20	<0.10	<0.10		<0.10	<0.10	<0.10	**0.11**					<0.10	<0.10	<0.10		<0.10	
BH116-DEL1N-0.3-0.5	9/05/2022		<0.20	<0.20	<0.10	<0.20	<0.10	<0.10		<0.10	<0.10	<0.10	<0.10					<0.10	<0.10	<0.10		<0.10	
BH116-DEL1S-0.0-0.2	9/05/2022		<0.20	<0.20	<0.10	<0.20	<0.10	<0.10		<0.10	<0.10	<0.10	**0.18**					<0.10	<0.10	<0.10		<0.10	
BH116-DEL1S-0.3-0.5	9/05/2022		<0.20	<0.20	<0.10	<0.20	<0.10	<0.10		<0.10	<0.10	<0.10	<0.10					<0.10	<0.10	<0.10		<0.10	
BH116-DEL1W-0.0-0.2	9/05/2022		<0.20	<0.20	<0.10	<0.20	<0.10	<0.10		<0.10	<0.10	<0.10	<0.10					<0.10	<0.10	<0.10		<0.10	
BH116-DEL1W-0.3-0.5	9/05/2022		<0.20	<0.20	<0.10	<0.20	<0.10	<0.10		<0.10	<0.10	<0.10	<0.10					<0.10	<0.10	<0.10		<0.10	

* A Non Detect Multiplier of 0.5 has been applied.

1 - Chrysotile, amosite and crocodilite asbestos detected.

Table 1b - SES Footprint		Organophosphorous Pesticides												PCBs									CH	
		Dimethoate	Ethion	Ethoprop	Fenitrothion	Fenthion	Malathion	Methyl parathion	Monocrotophos	Parathion	Pirimiphos-ethyl	Prothiofos	Ronnel	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs (Sum of total)	1,1,1,2-tetrachloroethane	1,1,1-trichloroethane
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL		0.05	0.05	0.1	0.1	0.05	0.05	0.1	0.2	0.1	0.05	0.05	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	0.5
Berkman (1989) Background Ranges (VENM)																							
NSW 2014 General Solid Waste CT1 (No Leaching)																					50	200	600
NSW 2014 General Solid Waste SCC1 (with leached)																					50	360	1,080
NSW 2014 Restricted Solid Waste CT2 (No Leaching)																					50	800	2,400
NSW 2014 Restricted Solid Waste SCC2 (with leached)																					50	1,440	4,320
Field ID	**Date**																						
Fill Layer																							
BUR_BH115_0.2	21/12/2021	<0.05	<0.05			<0.05	<0.05	<0.2	<0.2	<0.2	<0.05	<0.05									<0.1	<0.5	<0.5
BUR_BH115_0.5	21/12/2021	<0.05	<0.05			<0.05	<0.05	<0.2	<0.2	<0.2	<0.05	<0.05									<0.1		
BUR_BH115_1.0	21/12/2021	<0.05	<0.05			<0.05	<0.05	<0.2	<0.2	<0.2	<0.05	<0.05									<0.1	<0.5	<0.5
BUR_BH125_0.2	21/12/2021	<0.05	<0.05			<0.05	<0.05	<0.2	<0.2	<0.2	<0.05	<0.05									<0.1		
SES-BH1-0.0-0.2	9/05/2022			<0.10				<0.10					<0.10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50	<0.50
SES-BH1-0.3-0.5	9/05/2022			<0.10				<0.10					<0.10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50	<0.50
SES-BH2-0.0-0.2	9/05/2022			<0.10				<0.10					<0.10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50	<0.50
SES-BH2-0.3-0.5	9/05/2022			<0.10				<0.10					<0.10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50	<0.50
SES-BH3-0.0-0.2	9/05/2022			<0.10				<0.10					<0.10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50	<0.50
SES-BH3-0.3-0.5	9/05/2022			<0.10				<0.10					<0.10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50	<0.50
SES-BH4-0.0-0.2	9/05/2022			<0.10				<0.10					<0.10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50	<0.50
SES-BH4-0.3-0.5	9/05/2022			<0.10				<0.10					<0.10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50	<0.50
SES-BH4-1.0-1.2	9/05/2022			<0.10				<0.10					<0.10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50	<0.50
SES-BH1-BR2	9/05/2022			<0.10				<0.10					<0.10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50	<0.50
SES-BH4-SR2	6/05/2022	<0.1	<0.1		<0.1		<0.1			<0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Natural Layer																							
BUR_BH115_5.0	21/12/2021	<0.05	<0.05			<0.05	<0.05	<0.2	<0.2	<0.2	<0.05	<0.05									<0.1		
BUR_BH115_10.0	21/12/2021	<0.05	<0.05			<0.05	<0.05	<0.2	<0.2	<0.2	<0.05	<0.05									<0.1	<0.5	<0.5
BUR_BH115_15.0	21/12/2021	<0.05	<0.05			<0.05	<0.05	<0.2	<0.2	<0.2	<0.05	<0.05									<0.1		
BUR_BH125_5.0	21/12/2021	<0.05	<0.05			<0.05	<0.05	<0.2	<0.2	<0.2	<0.05	<0.05									<0.1		
SES-BH1-1.0-1.2	9/05/2022			<0.10				<0.10					<0.10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50	<0.50
SES-BH2-1.0-1.2	9/05/2022			<0.10				<0.10					<0.10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50	<0.50
SES-BH3-1.0-1.2	9/05/2022			<0.10				<0.10					<0.10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50	<0.50
SES-BH4-1.2-1.3	9/05/2022			<0.10				<0.10					<0.10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50	<0.50
BH116 and Delineation Test Pits surrounding BH116																							
BUR_BH116_0.2	21/12/2021	<0.05	<0.05			<0.05	<0.05	<0.2	<0.2	<0.2	<0.05	<0.05									<0.1		
BUR_BH116_0.2 ACM	21/12/2021																						
BUR_BH116_0.5	21/12/2021	<0.05	<0.05			<0.05	<0.05	<0.2	<0.2	<0.2	<0.05	<0.05									<0.1	<0.5	<0.5
BUR_BH116_3.0	21/12/2021	<0.05	<0.05			<0.05	<0.05	<0.2	<0.2	<0.2	<0.05	<0.05									<0.1		
BH116-DEL1E-0.0-0.2	9/05/2022			<0.10				<0.10					<0.10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50	<0.50
BH116-DEL1E-0.3-0.5	9/05/2022			<0.10				<0.10					<0.10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50	<0.50
BH116-DEL1N-0.0-0.2	9/05/2022			<0.10				<0.10					<0.10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50	<0.50
BH116-DEL1N-0.3-0.5	9/05/2022			<0.10				<0.10					<0.10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50	<0.50
BH116-DEL1S-0.0-0.2	9/05/2022			<0.10				<0.10					<0.10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50	<0.50
BH116-DEL1S-0.3-0.5	9/05/2022			<0.10				<0.10					<0.10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50	<0.50
BH116-DEL1W-0.0-0.2	9/05/2022			<0.10				<0.10					<0.10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50	<0.50
BH116-DEL1W-0.3-0.5	9/05/2022			<0.10				<0.10					<0.10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50	<0.50

* A Non Detect Multiplier of 0.5 has been applied.

1 - Chrysotile, amosite and crocodilite asbestos detected.

Table 1b - SES Footprint		Chlorinated Hydrocarbons																				
		1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,1-dichloroethene	1,1-dichloropropene	1,2,3-trichloropropane	1,2-dibromo-3-chloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	2,2-dichloropropane	Bromochloromethane	Bromodichloromethane	Bromoform	Carbon tetrachloride	Chlorodibromomethane	Chloroethane	Chloroform	Chloromethane	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Dibromomethane
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	5	0.5	5	0.5	0.5	0.5
Berkman (1989) Background Ranges (VENM)																							
NSW 2014 General Solid Waste CT1 (No Leaching)		26	24		14				10							10			120				
NSW 2014 General Solid Waste SCC1 (with leached)		46.8	43.2		25				18							18			126				
NSW 2014 Restricted Solid Waste CT2 (No Leaching)		104	96		56				40							40			480				
NSW 2014 Restricted Solid Waste SCC2 (with leached)		187.2	172.8		100				72							72			864				
Field ID	**Date**																						
Fill Layer																							
BUR_BH115_0.2	**21/12/2021**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5
BUR_BH115_0.5	**21/12/2021**																						
BUR_BH115_1.0	**21/12/2021**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5
BUR_BH125_0.2	**21/12/2021**																						
SES-BH1-0.0-0.2	**9/05/2022**	<0.50	<0.50		<0.50				<0.50				<0.50			<0.50			<0.50		<0.50		
SES-BH1-0.3-0.5	**9/05/2022**	<0.50	<0.50		<0.50				<0.50				<0.50			<0.50			<0.50		<0.50		
SES-BH2-0.0-0.2	**9/05/2022**	<0.50	<0.50		<0.50				<0.50				<0.50			<0.50			<0.50		<0.50		
SES-BH2-0.3-0.5	**9/05/2022**	<0.50	<0.50		<0.50				<0.50				<0.50			<0.50			<0.50		<0.50		
SES-BH3-0.0-0.2	**9/05/2022**	<0.50	<0.50		<0.50				<0.50				<0.50			<0.50			<0.50		<0.50		
SES-BH3-0.3-0.5	**9/05/2022**	<0.50	<0.50		<0.50				<0.50				<0.50			<0.50			<0.50		<0.50		
SES-BH4-0.0-0.2	**9/05/2022**	<0.50	<0.50		<0.50				<0.50				<0.50			<0.50			<0.50		<0.50		
SES-BH4-0.3-0.5	**9/05/2022**	<0.50	<0.50		<0.50				<0.50				<0.50			<0.50			<0.50		<0.50		
SES-BH4-1.0-1.2	**9/05/2022**	<0.50	<0.50		<0.50				<0.50				<0.50			<0.50			<0.50		<0.50		
SES-BH1-BR2	**9/05/2022**	<0.50	<0.50		<0.50				<0.50				<0.50			<0.50			<0.50		<0.50		
SES-BH4-SR2	**6/05/2022**																						
Natural Layer																							
BUR_BH115_5.0	**21/12/2021**																						
BUR_BH115_10.0	**21/12/2021**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5
BUR_BH115_15.0	**21/12/2021**																						
BUR_BH125_5.0	**21/12/2021**																						
SES-BH1-1.0-1.2	**9/05/2022**	<0.50	<0.50		<0.50				<0.50				<0.50			<0.50			<0.50		<0.50		
SES-BH2-1.0-1.2	**9/05/2022**	<0.50	<0.50		<0.50				<0.50				<0.50			<0.50			<0.50		<0.50		
SES-BH3-1.0-1.2	**9/05/2022**	<0.50	<0.50		<0.50				<0.50				<0.50			<0.50			<0.50		<0.50		
SES-BH4-1.2-1.3	**9/05/2022**	<0.50	<0.50		<0.50				<0.50				<0.50			<0.50			<0.50		<0.50		
BH116 and Delineation Test Pits surrounding BH116																							
BUR_BH116_0.2	**21/12/2021**																						
BUR_BH116_0.2 ACM	**21/12/2021**																						
BUR_BH116_0.5	**21/12/2021**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5
BUR_BH116_3.0	**21/12/2021**																						
BH116-DEL1E-0.0-0.2	**9/05/2022**	<0.50	<0.50		<0.50				<0.50				<0.50			<0.50			<0.50		<0.50		
BH116-DEL1E-0.3-0.5	**9/05/2022**	<0.50	<0.50		<0.50				<0.50				<0.50			<0.50			<0.50		<0.50		
BH116-DEL1N-0.0-0.2	**9/05/2022**	<0.50	<0.50		<0.50				<0.50				<0.50			<0.50			<0.50		<0.50		
BH116-DEL1N-0.3-0.5	**9/05/2022**	<0.50	<0.50		<0.50				<0.50				<0.50			<0.50			<0.50		<0.50		
BH116-DEL1S-0.0-0.2	**9/05/2022**	<0.50	<0.50		<0.50				<0.50				<0.50			<0.50			<0.50		<0.50		
BH116-DEL1S-0.3-0.5	**9/05/2022**	<0.50	<0.50		<0.50				<0.50				<0.50			<0.50			<0.50		<0.50		
BH116-DEL1W-0.0-0.2	**9/05/2022**	<0.50	<0.50		<0.50				<0.50				<0.50			<0.50			<0.50		<0.50		
BH116-DEL1W-0.3-0.5	**9/05/2022**	<0.50	<0.50		<0.50				<0.50				<0.50			<0.50			<0.50		<0.50		

* A Non Detect Multiplier of 0.5 has been applied.
1 - Chrysotile, amosite and crocodilite asbestos detected.

Table 1b - SES Footprint		Chlorinated Hydrocarbons											VOCs			PFAS	
		Dichloromethane	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Other chlorinated hydrocarbons EPAVic	Total Chlorinated Hydrocarbons	Trichloroethene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Vinyl chloride	cis-1,4-Dichloro-2-butene	trans-1,4-Dichloro-2-butene	Pentachloroethane	Sum of PFHxS and PFOS	Sum of PFAS
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	µg/kg	µg/kg
EQL		0.5	0.5	2.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.2	0.2
Berkman (1989) Background Ranges (VENM)																	
NSW 2014 General Solid Waste CT1 (No Leaching)		172						10	14			4					
NSW 2014 General Solid Waste SCC1 (with leached)		310						18	25.2			7.2				1,800	
NSW 2014 Restricted Solid Waste CT2 (No Leaching)		688						40	56			16					
NSW 2014 Restricted Solid Waste SCC2 (with leached)		1,240						72	100.8			28.8				7,200	
Field ID	**Date**																
Fill Layer																	
BUR_BH115_0.2	21/12/2021		<0.5					<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<5
BUR_BH115_0.5	21/12/2021																
BUR_BH115_1.0	21/12/2021		<0.5					<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5		
BUR_BH125_0.2	21/12/2021															<5	<5
SES-BH1-0.0-0.2	9/05/2022	<0.50	<0.50			<0.50	<0.50	<0.50	<0.50	<0.50		<0.50					
SES-BH1-0.3-0.5	9/05/2022	<0.50	<0.50			<0.50	<0.50	<0.50	<0.50	<0.50		<0.50					
SES-BH2-0.0-0.2	9/05/2022	<0.50	<0.50			<0.50	<0.50	<0.50	<0.50	<0.50		<0.50					
SES-BH2-0.3-0.5	9/05/2022	<0.50	<0.50			<0.50	<0.50	<0.50	<0.50	<0.50		<0.50					
SES-BH3-0.0-0.2	9/05/2022	<0.50	<0.50			<0.50	<0.50	<0.50	<0.50	<0.50		<0.50					
SES-BH3-0.3-0.5	9/05/2022	<0.50	<0.50			<0.50	<0.50	<0.50	<0.50	<0.50		<0.50					
SES-BH4-0.0-0.2	9/05/2022	<0.50	<0.50			<0.50	<0.50	<0.50	<0.50	<0.50		<0.50					
SES-BH4-0.3-0.5	9/05/2022	<0.50	<0.50			<0.50	<0.50	<0.50	<0.50	<0.50		<0.50					
SES-BH4-1.0-1.2	9/05/2022	<0.50	<0.50			<0.50	<0.50	<0.50	<0.50	<0.50		<0.50					
SES-BH1-BR2	9/05/2022	<0.50	<0.50			<0.50	<0.50	<0.50	<0.50	<0.50		<0.50					
SES-BH4-SR2	6/05/2022																
Natural Layer																	
BUR_BH115_5.0	21/12/2021																
BUR_BH115_10.0	21/12/2021		<0.5					<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5		
BUR_BH115_15.0	21/12/2021															<5	<5
BUR_BH125_5.0	21/12/2021															<5	<5
SES-BH1-1.0-1.2	9/05/2022	<0.50	<0.50			<0.50	<0.50	<0.50	<0.50	<0.50		<0.50					
SES-BH2-1.0-1.2	9/05/2022	<0.50	<0.50			<0.50	<0.50	<0.50	<0.50	<0.50		<0.50					
SES-BH3-1.0-1.2	9/05/2022	<0.50	<0.50			<0.50	<0.50	<0.50	<0.50	<0.50		<0.50					
SES-BH4-1.2-1.3	9/05/2022	<0.50	<0.50			<0.50	<0.50	<0.50	<0.50	<0.50		<0.50					
BH116 and Delineation Test Pits surrounding BH116																	
BUR_BH116_0.2	21/12/2021															<5	<5
BUR_BH116_0.2 ACM	21/12/2021																
BUR_BH116_0.5	21/12/2021		<0.5					<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5		
BUR_BH116_3.0	21/12/2021															<5	<5
BH116-DEL1E-0.0-0.2	9/05/2022	<0.50	<0.50			<0.50	<0.50	<0.50	<0.50	<0.50		<0.50					
BH116-DEL1E-0.3-0.5	9/05/2022	<0.50	<0.50			<0.50	<0.50	<0.50	<0.50	<0.50		<0.50					
BH116-DEL1N-0.0-0.2	9/05/2022	<0.50	<0.50			<0.50	<0.50	<0.50	<0.50	<0.50		<0.50					
BH116-DEL1N-0.3-0.5	9/05/2022	<0.50	<0.50			<0.50	<0.50	<0.50	<0.50	<0.50		<0.50					
BH116-DEL1S-0.0-0.2	9/05/2022	<0.50	<0.50			<0.50	<0.50	<0.50	<0.50	<0.50		<0.50					
BH116-DEL1S-0.3-0.5	9/05/2022	<0.50	<0.50			<0.50	<0.50	<0.50	<0.50	<0.50		<0.50					
BH116-DEL1W-0.0-0.2	9/05/2022	<0.50	<0.50			<0.50	<0.50	<0.50	<0.50	<0.50		<0.50					
BH116-DEL1W-0.3-0.5	9/05/2022	<0.50	<0.50			<0.50	<0.50	<0.50	<0.50	<0.50		<0.50					

* A Non Detect Multiplier of 0.5 has been applied.
1 - Chrysotile, amosite and crocodilite asbestos detected.

Table 1c - TCLP DATA		Metals												Inorganics		PAH																
		Arsenic (filtered)	Cadmium (filtered)	Calcium (filtered)	Chromium (III+VI) (filtered)	Copper (filtered)	Iron (filtered)	Lead (filtered)	Magnesium (filtered)	Mercury (filtered)	Nickel (filtered)	Potassium (filtered)	Zinc (filtered)	Sulfate as SO4 - Turbidimetric (filtered)	Sodium (filtered)	Acenaphthene (filtered)	Acenaphthylene (filtered)	Anthracene (filtered)	Benz(a)anthracene (filtered)	Benzo(a) pyrene (filtered)	Benzo(b)fluoranthene (filtered)	Benzo(g,h,i)perylene (filtered)	Benzo(k)fluoranthene (filtered)	Chrysene (filtered)	Dibenz(a,h)anthracene (filtered)	Fluoranthene (filtered)	Fluorene (filtered)	Indeno(1,2,3-c,d)pyrene (filtered)	Naphthalene (filtered)	Phenanthrene (filtered)	Pyrene (filtered)	
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL		1	0.1	1,000	1	1	50	1	1,000	0.1	1	1,000	5	1	1	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
NSW 2014 General Solid Waste TCLP1 (leached)		5,000	1,000		5,000			5,000		200	2,000									40												
NSW 2014 Restricted Solid Waste TCLP2 (leached)		20,000	4,000		20,000			20,000		800	8,000									10,000												
Field ID	Date																															
BH116-DEL1E-0.0-0.2	11/05/2022	<500	<50		200	<50		<500		<10	<200		730																			
BH116-DEL1E-0.0-0.2	11/05/2022															<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BH116-DEL1E-0.3-0.5	11/05/2022	<500	<50		<200	<50		<500		<10	<200		<50																			
BH116-DEL1N-0.0-0.2	11/05/2022	<500	<50		<200	<50		<500		<10	<200		<50																			
BH116-DEL1N-0.0-0.2	11/05/2022															<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BH116-DEL15-0.0-0.2	11/05/2022	<500	<50		<200	<50		<500		<10	<200		2,130																			
BH116-DEL15-0.0-0.2	11/05/2022															<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BH116-DEL1W-0.0-0.2	11/05/2022	<500	<50		<200	<50		<500		<10	<200		540																			
BUR_BH103_0.1	16/12/2021							<100												<0.5												
BUR_BH104_0.2	16/12/2021																			<0.5												
BUR_BH106_0.2	17/12/2021							<100												<0.5												
BUR_BH107_5.0	17/12/2021										<100																					
BUR_BH108_0.2	17/12/2021							<100												<0.5												
BUR_BH109_0.5	20/12/2021							<100																								
BUR_BH110_0.2	20/12/2021							<100																								
BUR_BH110_5.0	20/12/2021										100																					
BUR_BH111_0.5	20/12/2021							<100																								
BUR_BH112_0.2	21/12/2021										<100																					
BUR_BH114_5.0	20/12/2021										200																					
BUR_BH115_0.2	21/12/2021							300			<100									<0.5												
BUR_BH115_0.5	21/12/2021							28,700												<0.5												
BUR_BH115_1.0	21/12/2021							8,500																								
BUR_BH116_0.2	21/12/2021							100																								
BUR_BH117_0.2	21/12/2021							200																								
BUR_BH123_0.3	18/12/2021							<100												<0.5												
BUR_BH125	21/01/2022	17	<0.1	4,000	<1	2		<1	2,000	<0.1	4	13,000	<5	274	456																	
BUR_BH125_0.2	21/12/2021							<100												<0.5												
BUR-MW108	20/01/2022	13	0.4	87,000	<1	4	60	<1	125,000	<0.1	28	27,000	15	518	1,510																	
BWN_BH105-0.5-0.7	11/05/2022	<500	<50		<200	<50		<500		<10	<200		<50																			
BWN_BH106-0.7	11/05/2022	<500	<50		<200	<50		<500		<10	<200		<50																			
SES-BH1-0.0-0.2	11/05/2022	<500	<50		<200	270		<500		<10	300		6,310																			
SES-BH1-BR2	11/05/2022	<500	<50		<200	<50		<500		<10	<200		<50																			
SES-BH2-1.0-1.2	11/05/2022	<500	<50		<200	<50		<500		<10	<200		<50																			
SES-BH2-1.0-1.2	11/05/2022															<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
ADE-TP107-0.0-0.2	11/05/2022										<200																					
SES-BH3_0-0.2	11/05/2022							<500																								

Appendix III – Site Photographs



Photograph 1. SES footprint, location of BH102. Date: 05.05.2022

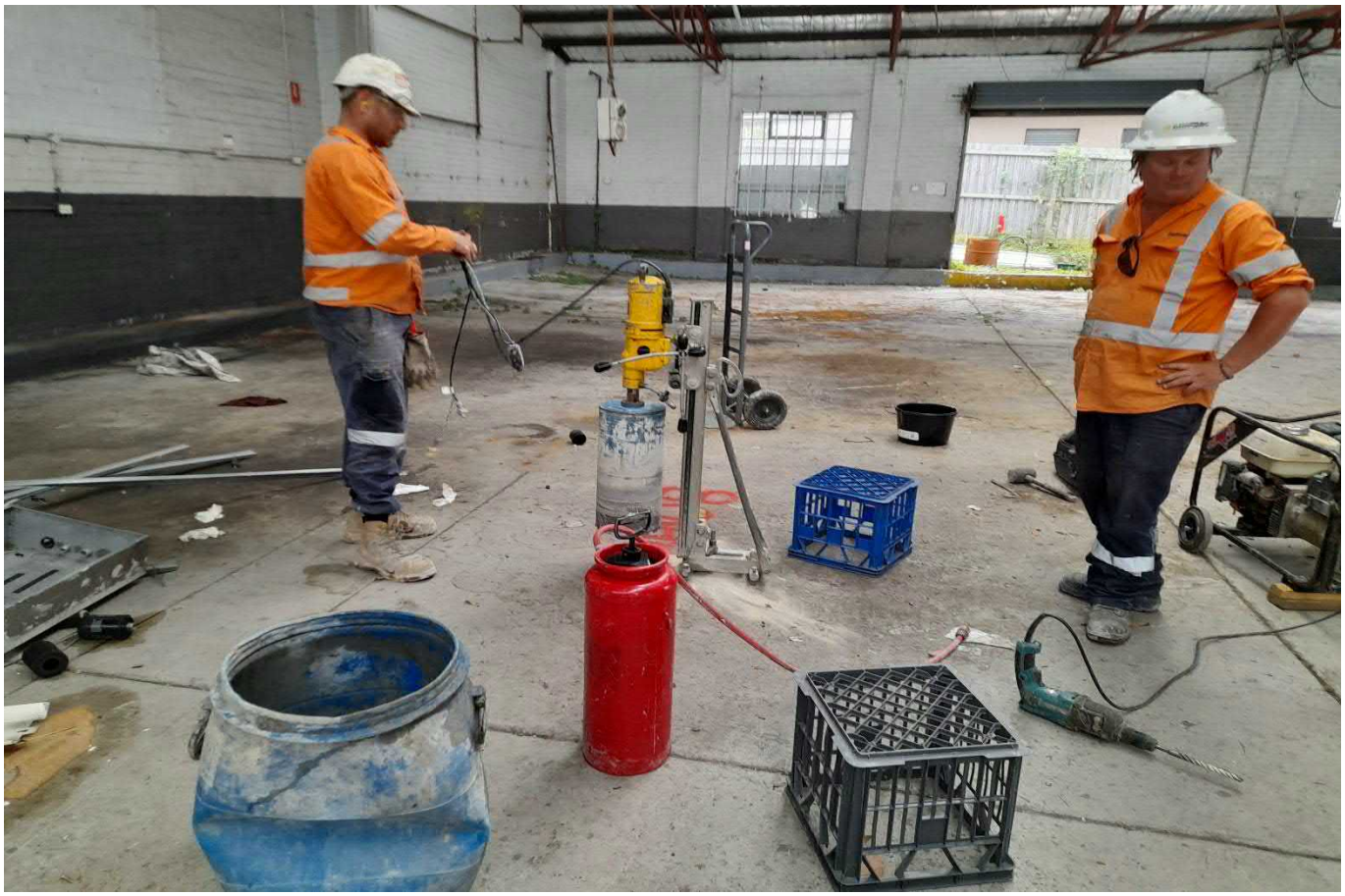


Photograph 2. SES footprint, location of BH102. Date: 05.05.2022

Commercial in Confidence



Photograph 3. Representative photograph of soil materials at BH116_DEL1N. Date: 05.05.2022



Photograph 4. SES footprint, facing south. Date: 05.05.2022



Photograph 5. Soil profile at ADE_TP105. Date 23.04.2022.



Photograph 6. Typical soil material extracted from ADE_TP106. Date 23/04/2022.

Commercial in Confidence



Photograph 7. Typical soil material extracted by hand auguring at ADE_TP107. Date 05.05.2022



Photograph 8. Typical soil materials extracted from ADE_TP108. Date 23/04/2022.

Commercial in Confidence

Appendix IV - Borelogs

Commercial in Confidence

ADECONSULTINGGROUP
SOLUTIONS THROUGH INNOVATION

BOREHOLE LOG ID SES BH1

PROJECT NUMBER 21.2041
PROJECT NAME AFJV Burwood Site
CLIENT AFJV
ADDRESS Corner of Burwood Road and Parramatta Road, Concord, NSW

DRILLING DATE 05/05/2022
DRILLING METHOD Hand Auger

COORDINATES -33.8690, 151.1055
COORD SYS GPS
LOGGED BY RW
CHECKED BY ML

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
	SES BH1_0.0-0.2	Y		FILL - Silty Sand: fine grained, dark brown, with gravels, dry to moist	
	SES BH1_0.3-0.5	Y		FILL - Silty Sand: fine grained, dark brown, with gravels, dry to moist	
0.5	SES BH1_1.0-1.2	Y		NATUAL - Sandy CLAY: medium plasticity, dark brown, with gravels, MC = PL	
1					
				Termination Depth at:1.2 m	
1.5					

ADECONSULTINGGROUP
SOLUTIONS THROUGH INNOVATION

BOREHOLE LOG ID SES BH2

PROJECT NUMBER 21.2041
PROJECT NAME AFJV Burwood Site
CLIENT AFJV
ADDRESS Corner of Burwood Road and Parramatta Road, Concord, NSW

DRILLING DATE 05/05/2022
DRILLING METHOD Hand Auger
TOTAL DEPTH 1.2m

COORDINATES -33.8691, 151.1055
COORD SYS GPS

LOGGED BY RW
CHECKED BY ML

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
	SES BH2_0.0-0.2	Y		FILL - Silty Sand: fine grained, dark brown, with gravels, dry to moist	
	SES BH2_0.3-0.5	Y		FILL - Silty Sand: fine grained, dark brown, with gravels, dry to moist	Hit VENM at 0.5m
0.5	SES BH2_1.0-1.2	Y		NATUAL - Sandy CLAY: medium plasticity, dark brown, with gravels, MC = PL	
1					
				Termination Depth at:1.2 m	
1.5					

BOREHOLE LOG ID SES BH3

PROJECT NUMBER 21.2041
PROJECT NAME AFJV Burwood Site
CLIENT AFJV
ADDRESS Corner of Burwood Road and Parramatta Road, Concord, NSW

DRILLING DATE 06/05/2022
DRILLING METHOD Hand Auger
TOTAL DEPTH 1.5m

COORDINATES -33.8691, 151.1059
COORD SYS GPS

LOGGED BY RW
CHECKED BY ML

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
	SES BH3_0.0-0.2	Y		FILL - Silty Sand: fine grained, dark brown, with gravels, dry to moist	
	SES BH3_0.3-0.5	Y		FILL - Silty Sand: fine grained, dark brown, with gravels, dry to moist	
0.5	SES BH3_1.0-1.2	Y		NATUAL - Sandy CLAY: medium plasticity, dark brown, with gravels, MC, PL	
1	SES BH3_1.3-1.5	Y		NATUAL - Sandy CLAY: medium plasticity, dark brown, with gravels, MC, PL	
1.5				Termination Depth at:1.5m	

BOREHOLE LOG ID SES BH4

PROJECT NUMBER 21.2041
PROJECT NAME AFJV Burwood Site
CLIENT AFJV
ADDRESS Corner of Burwood Road and Parramatta Road, Concord, NSW

DRILLING DATE 06/05/2022
DRILLING METHOD Hand Auger
TOTAL DEPTH 1.5m

COORDINATES -33.8692, 151.1058
COORD SYS GPS

LOGGED BY RW
CHECKED BY ML

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
	SES BH4_0.0-0.2	Y		FILL - Silty Sand: fine grained, dark brown, with gravels, dry to moist	
	SES BH4_0.3-0.5	Y		FILL - Silty Sand: fine grained, dark brown, with gravels, dry to moist	
0.5	SES BH4_1.0-1.2	Y		NATUAL - Sandy CLAY: medium plasticity, dark brown, with gravels, MC = PL	
1	SES BH4_1.3-1.5	Y			
1.5				Termination Depth at:1.5m	

Delineation LOG ID BH116_DEL1E

PROJECT NUMBER 21.2041
PROJECT NAME AFJV Burwood Site
CLIENT AFJV
ADDRESS Corner of Burwood Road and Parramatta Road, Concord, NSW

DRILLING DATE 05/05/2022
DRILLING METHOD Hand Auger
TOTAL DEPTH 0.5m

COORDINATES -33.8692, 151.1055
COORD SYS GPS

LOGGED BY RW
CHECKED BY ML

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
	BH116_DEL1E_0.0-0.2	Y		FILL - Silty Sand: fine grained, dark brown, with gravels, dry to moist	
	BH116_DEL1E_0.3-0.5	Y		FILL - Silty Sand: fine grained, dark brown, with gravels, dry to moist	
0.5				Termination Depth at:0.5 m	
1					
1.5					
2					
2.5					

Disclaimer This log is intended for environmental not geotechnical purposes.

produced by ESlog.ESdat.net on 17 May 2022

Delineation LOG ID BH116_DEL1N

PROJECT NUMBER 21.2041
PROJECT NAME AFJV Burwood Site
CLIENT AFJV
ADDRESS Corner of Burwood Road and Parramatta Road, Concord, NSW

DRILLING DATE 05/05/2022
DRILLING METHOD Hand Auger
TOTAL DEPTH 0.5m

COORDINATES -33.8692, 151.1055
COORD SYS GPS

LOGGED BY RW
CHECKED BY ML

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
	BH116_DEL1N_0.0-0.2	Y		FILL - Silty Sand: fine grained, dark brown, with gravels, dry to moist	
	BH116_DEL1N_0.3-0.5	Y		FILL - Silty Sand: fine grained, dark brown, with gravels, dry to moist	
0.5				Termination Depth at:0.5 m	
1					
1.5					
2					
2.5					

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Delineation LOG ID BH116_DEL1W

PROJECT NUMBER 21.2041
PROJECT NAME AFJV Burwood Site
CLIENT AFJV
ADDRESS Corner of Burwood Road and Parramatta Road, Concord, NSW

DRILLING DATE 05/05/2022
DRILLING METHOD Hand Auger
TOTAL DEPTH 0.5m

COORDINATES -33.8692, 151.1055
COORD SYS GPS

LOGGED BY RW
CHECKED BY ML

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
	BH116_DEL1W_0.0-0.2	Y		FILL - Silty Sand: fine grained, dark brown, with gravels, dry to moist	
	BH116_DEL1W_0.3-0.5	Y		FILL - Silty Sand: fine grained, dark brown, with gravels, dry to moist	
0.5				Termination Depth at:0.5 m	
1					
1.5					
2					
2.5					

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produced by ESlog.ESdat.net on 17 May 2022

Delineation LOG ID BH116_DEL1S

PROJECT NUMBER 21.2041
PROJECT NAME AFJV Burwood Site
CLIENT AFJV
ADDRESS Corner of Burwood Road and Parramatta Road, Concord, NSW

DRILLING DATE 05/05/2022
DRILLING METHOD Hand Auger
TOTAL DEPTH 0.5m

COORDINATES -33.8692, 151.1055
COORD SYS GPS

LOGGED BY RW
CHECKED BY ML

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
	BH116_DEL1S_0.0-0.2	Y		FILL - Silty Sand: fine grained, dark brown, with gravels, dry to moist	
	BH116_DEL1S_0.3-0.5	Y		FILL - Silty Sand: fine grained, dark brown, with gravels, dry to moist	
0.5				Termination Depth at:0.5 m	
1					
1.5					
2					
2.5					

Disclaimer This log is intended for environmental not geotechnical purposes.

produced by ESlog.ESdat.net on 17 May 2022

Delineation LOG ID BH123_DEL1N

PROJECT NUMBER 21.2041
PROJECT NAME AFJV Burwood Site
CLIENT AFJV
ADDRESS Corner of Burwood Road and Parramatta Road, Concord, NSW

DRILLING DATE 06/05/2022
DRILLING METHOD Hand Auger
TOTAL DEPTH 0.5m

COORDINATES -33.8687, 151.1077
COORD SYS GPS

LOGGED BY RW
CHECKED BY ML

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
	BH123_DEL1N_0.0-0.2	Y		FILL - Silty Sand: fine grained, dark brown, with gravels, dry to moist	
	BH123_DEL1N_0.3-0.5	Y		FILL - Silty Sand: fine grained, dark brown, with gravels, dry to moist	
0.5				Termination Depth at:0.5 m	
1					
1.5					
2					
2.5					

Disclaimer This log is intended for environmental not geotechnical purposes.

produced by ESlog.ESdat.net on 17 May 2022

Delineation LOG ID BH123_DEL1S

PROJECT NUMBER 21.2041
PROJECT NAME AFJV Burwood Site
CLIENT AFJV
ADDRESS Corner of Burwood Road and Parramatta Road, Concord, NSW

DRILLING DATE 06/05/2022
DRILLING METHOD Hand Auger
TOTAL DEPTH 0.5m

COORDINATES -33.8687, 151.1077
COORD SYS GPS

LOGGED BY RW
CHECKED BY ML

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
	BH123_DEL1S_0.0-0.2	Y		FILL - Silty Sand: fine grained, dark brown, with gravels, dry to moist	
	BH123_DEL1S_0.3-0.5	Y		FILL - Silty Sand: fine grained, dark brown, with gravels, dry to moist	
0.5				Termination Depth at:0.5 m	
1					
1.5					
2					
2.5					

Disclaimer This log is intended for environmental not geotechnical purposes.

produced by ESlog.ESdat.net on 17 May 2022

Delineation LOG ID BH123_DEL1E

PROJECT NUMBER 21.2041
PROJECT NAME AFJV Burwood Site
CLIENT AFJV
ADDRESS Corner of Burwood Road and Parramatta Road, Concord, NSW

DRILLING DATE 06/05/2022
DRILLING METHOD Hand Auger
TOTAL DEPTH 0.5m

COORDINATES -33.8687, 151.1077
COORD SYS GPS

LOGGED BY RW
CHECKED BY ML

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
	BH123_DEL1E_0.0-0.2	Y		FILL - Silty Sand: fine grained, dark brown, with gravels, dry to moist	
	BH123_DEL1E_0.3-0.5	Y		FILL - Silty Sand: fine grained, dark brown, with gravels, dry to moist	
0.5				Termination Depth at:0.5 m	
1					
1.5					
2					
2.5					

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Delineation LOG ID BH123_DEL1W

PROJECT NUMBER 21.2041
PROJECT NAME AFJV Burwood Site
CLIENT AFJV
ADDRESS Corner of Burwood Road and Parramatta Road, Concord, NSW

DRILLING DATE 06/05/2022
DRILLING METHOD Hand Auger
TOTAL DEPTH 0.5m

COORDINATES -33.8687, 151.1077
COORD SYS GPS

LOGGED BY RW
CHECKED BY ML

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
	BH123_DEL1W_0.0-0.2	Y		FILL - Silty Sand: fine grained, dark brown, with gravels, dry to moist	
	BH123_DEL1W_0.3-0.5	Y		FILL - Silty Sand: fine grained, dark brown, with gravels, dry to moist	
0.5				Termination Depth at:0.5 m	
1					
1.5					
2					
2.5					

Disclaimer This log is intended for environmental not geotechnical purposes.

produced by ESlog.ESdat.net on 17 May 2022

BOREHOLE LOG ID ADE_TP107

PROJECT NUMBER 21.2041
PROJECT NAME AFJV Burwood Site
CLIENT AFJV
ADDRESS Corner of Burwood Road and Parramatta Road, Concord, NSW

DRILLING DATE 06/05/2022
DRILLING METHOD Hand Auger
TOTAL DEPTH 1.2m

COORDINATES -33.8687, 151.1071
COORD SYS GPS
LOGGED BY RW
CHECKED BY ML

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
	ADE_TP107_0.0-0.2	Y		FILL - Silty Sand: fine grained, dark brown, with gravels, dry to moist	
	ADE_TP107_0.3-0.5	Y		FILL - Silty Sand: fine grained, dark brown, with gravels, dry to moist	
0.5	ADE_TP107_1.0-1.2	Y		NATUAL - Sandy CLAY: medium plasticity, dark brown, with gravels, MC = PL	
1					
				Termination Depth at:1.2 m	
1.5					
2					
2.5					

BOREHOLE LOG ID BWN_105

PROJECT NUMBER 21.2041
PROJECT NAME AFJV Burwood Site
CLIENT AFJV
ADDRESS Corner of Burwood Road and Parramatta Road, Concord, NSW

DRILLING DATE 23.04.2022
DRILLING METHOD Hand Auger and Push Tube
TOTAL DEPTH 2.6

COORDINATES -33.8641, 151.1031
COORD SYS GPS
LOGGED BY ML
CHECKED BY MH

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
				Concrete	
				FILL: Sandy CLAY, orange to dark brown and red, moist	
0.5	ADE_BH105-0.5-0.6			FILL: Reworked Clay; low plasticity, red, orange and brown, moist	
				FILL: Reworked Clay; low plasticity, red, moist	
1	ADE_BH105-1.0-1.1			CLAY: low plasticity, light grey with red mottled inclusions, no shale present, stiff	
				CLAY: Low plasticity, light grey with minor shale inclusions	
1.5					
	ADE_BH105-1.8-2.2			Weathered SHALE: Light and orange/ red, brittle, dry, increasingly crumbly and dry through depth	
2					
2.5	ADE_BH105-2.6-2.7				
				End of borehole at 2.7m	

Disclaimer This log is intended for environmental not geotechnical purposes.

produced by ESlog.ESdat.net on 17 May 2022

BOREHOLE LOG ID BWN_106

PROJECT NUMBER 21.2041
PROJECT NAME AFJV Burwood Site
CLIENT AFJV
ADDRESS Corner of Burwood Road and Parramatta Road, Concord, NSW

DRILLING DATE 23.04.2022
DRILLING METHOD Hand Auger and Push Tube
TOTAL DEPTH 3.0

COORDINATES -33.8669, 151.1231
COORD SYS GPS
LOGGED BY MH
CHECKED BY ML

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
				Concrete	
				FILL: Road base, angular grey gravels	
	ADE_BH106-0.4			FILL: Clay: low plasticity, red and brown, dry	
0.5					
	ADE_BH106-0.7			FILL: Clay: low plasticity, dark grey and red, grading to orange clay	
1	ADE_BH106-1.1				
				FILL: Reworked clay; low plasticity, light orange with intermittent shale lenses	
	ADE_BH106-1.3				
				CLAY: Low plasticity, light grey with intermittent shale lenses	
1.5					
	ADE_BH106-1.7				
2					
2.5					
				SHALE: Light grey, weathered, dry and brittle	
	ADE_BH106-3.0				
3				Termination depth at 2.7m	

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produced by ESlog.ESdat.net on 17 May 2022

Delineation LOG ID BH116_DEL1E

PROJECT NUMBER 21.2041
PROJECT NAME AFJV Burwood Site
CLIENT AFJV
ADDRESS Corner of Burwood Road and Parramatta Road, Concord, NSW

DRILLING DATE 05/05/2022
DRILLING METHOD Hand Auger
TOTAL DEPTH 0.5m

COORDINATES -33.8692, 151.1055
COORD SYS GPS

LOGGED BY RW
CHECKED BY ML

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
	BH116_DEL1E_0.0-0.2	Y		FILL - Silty Sand: fine grained, dark brown, with gravels, dry to moist	
	BH116_DEL1E_0.3-0.5	Y		FILL - Silty Sand: fine grained, dark brown, with gravels, dry to moist	
0.5				Termination Depth at:0.5 m	
1					
1.5					
2					
2.5					

Disclaimer This log is intended for environmental not geotechnical purposes.

produced by ESlog.ESdat.net on 17 May 2022

BOREHOLE LOG ID BWN_108

PROJECT NUMBER 21.2041
PROJECT NAME AFJV Burwood Site
CLIENT AFJV
ADDRESS Corner of Burwood Road and Parramatta Road, Concord, NSW

DRILLING DATE 23.04.2022
DRILLING METHOD Hand Auger and Push Tube
TOTAL DEPTH 2.6

COORDINATES -33.8633, 151.1041
COORD SYS GPS
LOGGED BY MH
CHECKED BY ML

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
				Concrete	
	ADE_BH108-0.3			FILL: Sandy CLAY: fine grained, red and brown, dry	
	ADE_BH108-0.5			FILL: Reworked clay: low plasticity, red and brown, dry	
0.5				FILL: Reworked clay; low plasticity, red, orange and brown, moist	
				FILL: Reworked clay; low plasticity, red and orange, some thin red shale inclusions, low moisture	
	ADE_BH108-1.0				
1				CLAY: Low plasticity, light grey with red mottled inclusions, no shale, stiff	
				CLAY: Low plasticity, light grey with some coloured shale inclusions	
1.5					
				SHALE: Weathered, light orange and red, dry, increasingly brittle and dry with depth	
	ADE_BH108-2.0				
2					
2.5					
				Termination depth at 2.6m	

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produced by ESlog.ESdat.net on 17 May 2022

APPENDIX B BORELOGS

DRAFT

BORE LOG ID BUR_BH101

Client: AFJV
Project No: 0628507
Project Name: SMW_Burwood
Site Address: Crn Parramatta Rd and Burwood Rd
Drilling Date: 21/12/2021 - 21/12/2021

Drilling Method: Augering Solid Fligh
Hole Diam./Width (mm): 125
Surface Completion: Backfill
Final Water Level (m bgl):

Elevation (Ground):
Elevation (Case):
Easting (MGA): -33.867974
Northing (MGA): 151.105915

Comments:

Log By: MB/TR
Checked By:

Material Description	Symbol	Well Diagram	Depth (m)	% Recovery	Sample Type	Analysed	PID	Samples	Additional Observations
FILL: Brown topsoils with silty clay fill, trace gravels, crushed brick, ceramic, rootlets and sandstone, bitumen @ 0.5m			0.2 0.4 0.6			Y	0.1	BUR_BH101_0.1	
CLAY: Red Clay, dense, dry, medium to low plasticity, (Natural)			0.8 1 1.2 1.4						
CLAY: Grey clay, dense, dry, medium to low plasticity, grey shales and harder with depth			1.6 1.8 2 2.2 2.4 2.6			Y	0	BUR_BH101_2.0	
Termination Depth at:2.8 m			2.8 3 3.2 3.4 3.6 3.8 4 4.2 4.4 4.6 4.8						

DRAFT

BORE LOG ID BUR_BH102

Client: AFJV
Project No: 0628507
Project Name: SMW_Burwood
Site Address: Crn Parramatta Rd and Burwood Rd
Drilling Date: 16/12/2021 - 16/12/2021

Drilling Method: Augering Solid Fligh
Hole Diam./Width (mm): 125
Surface Completion: Backfill
Final Water Level (m bgl):

Elevation (Ground):
Elevation (Case):
Easting (MGA): -33.868007
Northing (MGA): 151.106297

Comments:

Log By: MB/TR
Checked By:

Material Description	Symbol	Well Diagram	Depth (m)	% Recovery	Sample Type	Analysed	PID	Samples	Additional Observations
CONCRETE: Concrete Slab						Y		BUR_BH102_0.15	
ROADBASE:			0.2			Y		BUR_BH102_0.2	
FILL: Brown/grey gravelly, silty clay, medium plasticity, angular to sub-angular gravels and bricks, soft clays @0.3-0.5m			0.4						
SILTY CLAY: Red/orange silty clay with grey mottling, slightly moist, rock fragment inclusions			0.6						
			0.8						
SILTY CLAY: Orange/red silty clay with grey mottling, medium plasticity			1						
			1.2						
			1.4						
			1.6						
SILTY CLAY: Red/orange, grey silty clay and weathered rock, grey clay with rock fragments, hard-very hard, slightly moist -dry			1.8						
			2			Y		BUR_BH102_2.0	
			2.2						
			2.4						
			2.6						
			2.8						
Termination Depth at:3 m			3						
			3.2						
			3.4						
			3.6						
			3.8						
			4						
			4.2						
			4.4						
			4.6						
			4.8						

DRAFT

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BORE LOG ID BUR_BH103

Client: AFJV
Project No: 0628507
Project Name: SMW_Burwood
Site Address: Crn Parramatta Rd and Burwood Rd
Drilling Date: 16/12/2021 - 16/12/2021

Drilling Method: Augering Solid Fligh
Hole Diam./Width (mm): 125
Surface Completion: Backfill
Final Water Level (m bgl):

Elevation (Ground):
Elevation (Case):
Easting (MGA): -33.868295
Northing (MGA): 151.105501

Comments:

Log By: MB/TR
Checked By:

Material Description	Symbol	Well Diagram	Depth (m)	% Recovery	Sample Type	Analysed	PID	Samples	Additional Observations
FILL: Brown-dark brown silty clay topsoils with angular-sub angular gravels, loose, bricks			0.2			Y	1.2	BUR_BH103_0.1	
			0.4						
FILL: Brown silty clay fill, plastic, slightly moist, some angular/sub-angular gravels, soft			0.6			Y	0.6	BUR_BH103_0.7	
			0.8						
SILTY CLAY: Red/orange and grey mottled silty clay, medium-high plasticity, slightly moist, soft, harder with increasing depth			1						
			1.2						
			1.4						
			1.6						
SHALE: Red/grey mottled silty clay, hard with extremely weathered rock, dry, shale @2m			1.8						
			2						
SHALE: Brown Rock/silty clay, hard, dry-slightly moist, with shale inclusions, grey @3.5m, grey/brown @4m			2.2						Soft from 2.8-3.5m assumed to be perched water
			2.4						
			2.6						
			2.8						Auger drilling was soft, pressumed to be due to perched water as cuttings were moist
			3			Y	0.1	BUR_BH103_3.0	
			3.2						
			3.4						
			3.6						
			3.8						
			4						
			4.2						
			4.4						
			4.6						
			4.8						
			5			Y	0.1	BUR_BH103_5.0	
Termination Depth at:5 m			5.2						

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BORE LOG ID BUR_BH104

Client: AFJV
Project No: 0628507
Project Name: SMW_Burwood
Site Address: Crn Parramatta Rd and Burwood Rd
Drilling Date: 16/12/2021 - 16/12/2021

Drilling Method: Augering Solid Fligh
Hole Diam./Width (mm): 125
Surface Completion: Backfill
Final Water Level (m bgl):

Elevation (Ground):
Elevation (Case):
Easting (MGA): -33.86844
Northing (MGA): 151.105982

Comments:

Log By: MB/TR
Checked By:

Material Description	Symbol	Well Diagram	Depth (m)	% Recovery	Sample Type	Analysed	PID	Samples	Additional Observations
CONCRETE: Concrete Slab			0.2			Y	0.3	BUR_BH104_0.2	
FILL: Dark brown silty clay, medium-high plasticity, with sub-angular to angular gravels, moist, very soft			0.4						
			0.6						
SILTY CLAY: Red/orange/ grey mottled silty clay, soft -hard, medium-low plasticity, slightly moist, angular to sub-angular			0.8						
			1			Y	1.5	BUR_BH104_1.0	
			1.2						
			1.4						
SHALE: Grey weathered shale/rock, hard, dense, dry			1.6						
			1.8						
SILTSTONE: Brown silty clay/siltstone, rock, hard, dry, with shale inclusions, progressively harder, Shale @4.5-5m			2						
			2.2						
			2.4						
			2.6						
			2.8						
			3						
			3.2						
			3.4						
			3.6						
			3.8						
			4			Y	0.1	BUR_BH104_4.0	
			4.2						
			4.4						
			4.6						
			4.8						
			5						
Termination Depth at:5 m			5.2						

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BORE LOG ID BUR_BH105

Client: AFJV
Project No: 0628507
Project Name: SMW_Burwood
Site Address: Crn Parramatta Rd and Burwood Rd
Drilling Date: 15/12/2021 - 15/12/2021

Drilling Method: Augering Solid Fligh
Hole Diam./Width (mm): 125
Surface Completion: Backfill
Final Water Level (m bgl):

Elevation (Ground):
Elevation (Case):
Easting (MGA): -33.868682
Northing (MGA): 151.105734

Comments:

Log By: MB/TR
Checked By:

Material Description	Symbol	Well Diagram	Depth (m)	% Recovery	Sample Type	Analysed	PID	Samples	Additional Observations
CONCRETE: Concrete Slab						Y	41.2	BUR_BH105_0.1	
SAND: Brown/yellow sand, rounded-sub angular, no odour, no staining			0.2						
CLAY: Red/brown clay, soft, plastic, no odour, no staining (Natural)			0.4						
			0.6						
			0.8						
			1						
			1.2						
			1.4						
SILTY CLAY: Grey silty clay, dense, dry			1.6						
SILTY CLAY: Brown silty shaley clay, hard, dry			1.8						
			2						
			2.2						
			2.4						
			2.6						
			2.8						
			3			Y	4.5	BUR_BH105_3.0	
Termination Depth at:3 m			3.2						
			3.4						
			3.6						
			3.8						
			4						
			4.2						
			4.4						
			4.6						
			4.8						

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BORE LOG ID BUR_BH106

Client: AFJV
Project No: 0628507
Project Name: SMW_Burwood
Site Address: Crn Parramatta Rd and Burwood Rd
Drilling Date: 17/12/2021 - 17/12/2021

Drilling Method: Augering Solid Fligh
Hole Diam./Width (mm): 125
Surface Completion: Backfill
Final Water Level (m bgl):

Elevation (Ground):
Elevation (Case):
Easting (MGA): -33.868487
Northing (MGA): 151.106226

Comments:

Log By: MB/TR
Checked By:

Material Description	Symbol	Well Diagram	Depth (m)	% Recovery	Sample Type	Analysed	PID	Samples	Additional Observations
CONCRETE: Concrete Slab									
ROADBASE: Black gravelly sand, poorly sorted, dry, roadbase			0.2			Y	2.2	BUR_BH106_0.2	
SILTY CLAY: Brown silty clay, dense, plastic (Natural)			0.4						
			0.6						
SHALE: Light brown silty clay, more shale with depth, hard			0.8						
			1			Y	0.4	BUR_BH106_1.0	
			1.2						
			1.4						
			1.6						
SHALE: Orange/brown silty shale, dry, hard			1.8						
			2			Y	0.6	BUR_BH106_2.0	
			2.2						
			2.4						
			2.6						
			2.8						
SHALE: Brown silty shale, dry, hard			3			Y	0.5	BUR_BH106_3.0	
			3.2						
			3.4						
			3.6						
			3.8						
			4			Y	0.5	BUR_BH106_4.0	
			4.2						
			4.4						
			4.6						
			4.8						
			5			Y	0.1	BUR_BH106_5.0	
Termination Depth at:5 m			5.2						

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BORE LOG ID BUR_BH107

Client: AFJV
Project No: 0628507
Project Name: SMW_Burwood
Site Address: Crn Parramatta Rd and Burwood Rd
Drilling Date: 17/12/2021 - 17/12/2021

Drilling Method: Augering Solid Fligh
Hole Diam./Width (mm): 125
Surface Completion: Backfill
Final Water Level (m bgl):

Elevation (Ground):
Elevation (Case):
Easting (MGA): -33.868504
Northing (MGA): 151.106403

Comments:

Log By: MB/TR
Checked By:

Material Description	Symbol	Well Diagram	Depth (m)	% Recovery	Sample Type	Analysed	PID	Samples	Additional Observations
CONCRETE: Concrete Slab			0.2			Y	1.5	BUR_BH107_0.2	
ROADBASE: Grey/ black gravelly sand, poorly sorted, dry, roadbase			0.4						
CLAY: Grey/brown clay, dense, plastic (Natural)			0.6						
			0.8						
			1			Y	0.5	BUR_BH107_1.0	
			1.2						
			1.4						
SHALE: Grey/brown weathered shale, hard, dense, dry			1.6						
			1.8						
			2						
			2.2						
			2.4						
			2.6						
			2.8						
			3			Y		BUR_BH107_3.0	
			3.2						
			3.4						
			3.6						
			3.8						
			4						
			4.2						
			4.4						
			4.6						
			4.8						
			5			Y		BUR_BH107_5.0	
Termination Depth at:5 m			5.2						

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BORE LOG ID BUR_BH108

Client: AFJV
Project No: 0628507
Project Name: SMW_Burwood
Site Address: Crn Parramatta Rd and Burwood Rd
Drilling Date: 17/12/2021 - 17/12/2021

Drilling Method: Augering Solid Fligh
Hole Diam./Width (mm): 125
Surface Completion: Backfill
Final Water Level (m bgl):

Elevation (Ground):
Elevation (Case):
Easting (MGA): -33.868519
Northing (MGA): 151.106457

Comments:

Log By: MB/TR
Checked By:

Material Description	Symbol	Depth (m)	% Recovery	Sample Type	Analysed	PID	Samples	Additional Observations
CONCRETE: Concrete Slab					Y	6.3	BUR_BH108_0.2	
ASPHALT:					Y	5.2	BUR_BH108_0.5	
FILL: Brown/black gravelly fill, brick fragments, ceramic, loose		1						
FILL: Brown/grey clay fill, trace sandstone and gravels		2			Y	1.2	BUR_BH108_2.0	
CLAY: Grey clay, dense, dry, medium to low plasticity, grey shales and harder with depth, (Natural)		3						
SHALE: Grey weathered shales, hard		4						
		5			Y	1.5	BUR_BH108_5.8	
SILTSTONE: Brown Siltstone, rock, hard		6						
		7						
		8						
		9						
		10						
		11			Y	6.1	BUR_BH108_11.0	
SHALE: Dark grey shale, rock, hard, dense		12						
		13						
		14						
		15						
SILTSTONE: Light grey siltstone, hard		16						
		17			Y	3	BUR_BH108_17.0	
		18						
		19						
		20			Y	3.1	BUR_BH108_20.0	
Termination Depth at:20 m								

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BORE LOG ID BUR_BH109

Client: AFJV
Project No: 0628507
Project Name: SMW_Burwood
Site Address: Crn Parramatta Rd and Burwood Rd
Drilling Date: 20/12/2021 - 20/12/2021

Drilling Method: Augering Solid Fligh
Hole Diam./Width (mm): 125
Surface Completion: Backfill
Final Water Level (m bgl):

Elevation (Ground):
Elevation (Case):
Easting (MGA): -33.868697
Northing (MGA): 151.106455

Comments:

Log By: MB/TR
Checked By:

Material Description	Symbol	Well Diagram	Depth (m)	% Recovery	Sample Type	Analysed	PID	Samples	Additional Observations
CONCRETE: Concrete Slab			0.2			Y	0.7	BUR_BH109_0.2	
ROADBASE: Dark grey/black gravels, crushed concrete, roadbase			0.4			Y	0.2	BUR_BH109_0.5	
FILL: Dark grey/brown clay fill, dense, plastic, brick fragments			0.6						
CLAY: Brown/red mottled grey clay, soft, plastic (Natural)			0.8			Y	1.2	BUR_BH109_1.0	
			1						
			1.2						
			1.4						
			1.6						
			1.8						
CLAY: Grey/brown shaley clay, dense, stiff			2						
			2.2						
			2.4						
			2.6						
			2.8						
			3			Y	1	BUR_BH109_3.0	
Termination Depth at:3 m			3.2						
			3.4						
			3.6						
			3.8						
			4						
			4.2						
			4.4						
			4.6						
			4.8						

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BORE LOG ID BUR_BH110

Client: AFJV
Project No: 0628507
Project Name: SMW_Burwood
Site Address: Crn Parramatta Rd and Burwood Rd
Drilling Date: 20/12/2021 - 20/12/2021

Drilling Method: Augering Solid Fligh
Hole Diam./Width (mm): 125
Surface Completion: Backfill
Final Water Level (m bgl):

Elevation (Ground):
Elevation (Case):
Easting (MGA): -33.86867
Northing (MGA): 151.106699

Comments:

Log By: MB/TR
Checked By:

Material Description	Symbol	Well Diagram	Depth (m)	% Recovery	Sample Type	Analysed	PID	Samples	Additional Observations
CONCRETE: Concrete Slab			0.2			Y	0.4	BUR_BH110_0.2	
FILL: Brown gravelly fill, poorly sorted, crushed brick			0.4			Y	0.5	BUR_BH110_0.5	
FILL: Brown/red clay fill, medium plasticity, trace gravels			0.6						
			0.8						
CLAY: Grey mottled red clay, dense, Medium plasticity (Natural)			1			Y	0.3	BUR_BH110_1.0	
			1.2						
			1.4						
			1.6						
			1.8						
SHALE: Brown silty shales, dry, dense			2						
			2.2						
			2.4						
			2.6						
			2.8						
			3						
			3.2						
			3.4						
			3.6						
			3.8						
			4						
			4.2						
			4.4						
			4.6						
			4.8						
SHALE: Grey shale/rock, hard			5			Y	5	BUR_BH110_5.0	
Termination Depth at:5 m			5.2						

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BORE LOG ID BUR_BH111

Client: AFJV
Project No: 0628507
Project Name: SMW_Burwood
Site Address: Crn Parramatta Rd and Burwood Rd
Drilling Date: 20/12/2021 - 20/12/2021

Drilling Method: Augering Solid Fligh
Hole Diam./Width (mm): 125
Surface Completion: Backfill
Final Water Level (m bgl):

Elevation (Ground):
Elevation (Case):
Easting (MGA): -33.868646
Northing (MGA): 151.106895

Comments:

Log By: MB/TR
Checked By:

Material Description	Symbol	Well Diagram	Depth (m)	% Recovery	Sample Type	Analysed	PID	Samples	Additional Observations
CONCRETE: Concrete Slab			0.2			Y	0.2	BUR_BH111_0.2	
FILL: Brown silty gravelly Fill, poorly sorted, large rock and gravel inclusions			0.4			Y	0.5	BUR_BH111_0.5	
FILL: Dark brown clay fill, plastic, trace plastic, concrete and brick fragments			0.6						
CLAY: Brown/grey clay, dense, plastic, more shale with depth (Natural)			0.8						
			1						
			1.2						
			1.4						
			1.6						
			1.8						
			2			Y	1.1	BUR_BH111_2.0	
SHALE: Grey shale/rock, hard			2.2						
			2.4						
			2.6						
			2.8						
			3						
			3.2						
			3.4						
			3.6						
			3.8						
			4						
			4.2						
			4.4						
			4.6						
			4.8						
			5			Y		BUR_BH111_5.0	
Termination Depth at:5 m			5.2						

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BORE LOG ID BUR_BH112

Client: AFJV
Project No: 0628507
Project Name: SMW_Burwood
Site Address: Crn Parramatta Rd and Burwood Rd
Drilling Date: 21/12/2021 - 21/12/2021

Drilling Method: Augering Solid Fligh
Hole Diam./Width (mm): 125
Surface Completion: Backfill
Final Water Level (m bgl):

Elevation (Ground):
Elevation (Case):
Easting (MGA): -33.868995
Northing (MGA): 151.107145

Comments:

Log By: MB/TR
Checked By:

Material Description	Symbol	Well Diagram	Depth (m)	% Recovery	Sample Type	Analysed	PID	Samples	Additional Observations
CONCRETE: Concrete Slab			0.2			Y	0.4	BUR_BH112_0.2	
FILL: Brown silty clay fill with gravels			0.4			Y	0.5	BUR_BH112_0.5	
CLAY: Red/grey mottled clay, medium to low plasticity (Natural)			0.6 0.8 1 1.2						
SHALE: Light grey/grey shales, hard			1.4 1.6 1.8 2 2.2 2.4 2.6 2.8 3 3.2 3.4						
SHALE: Dark grey/brown silty shale, dry, dense, hard			3.6 3.8 4 4.2 4.4 4.6 4.8 5			Y	0.1	BUR_BH112_5.0	
Termination Depth at:5 m			5.2						

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BORE LOG ID BUR_BH113

Client: AFJV
Project No: 0628507
Project Name: SMW_Burwood
Site Address: Crn Parramatta Rd and Burwood Rd
Drilling Date: 20/12/2021 - 20/12/2021

Drilling Method: Augering Solid Fligh
Hole Diam./Width (mm): 125
Surface Completion: Backfill
Final Water Level (m bgl):

Elevation (Ground):
Elevation (Case):
Easting (MGA): -33.868715
Northing (MGA): 151.107292

Comments:

Log By: MB/TR
Checked By:

Material Description	Symbol	Well Diagram	Depth (m)	% Recovery	Sample Type	Analysed	PID	Samples	Additional Observations
CONCRETE: Concrete Slab			0.2			Y	1.8	BUR_BH113_0.2	
SANDY CLAY: Brown/red sandy clay, trace gravels CLAY: Grey mottled red clay with claystone, medium plasticity (Natural)			0.4 0.6 0.8 1			Y	0.5	BUR_BH113_1.0	
SHALE: Grey/red shales, hard			1.2 1.4 1.6 1.8 2 2.2 2.4 2.6 2.8			Y	0.3	BUR_BH113_2.0	
SHALE: Brown/grey silty shale, rock, hard			3 3.2 3.4 3.6 3.8 4 4.2 4.4 4.6 4.8 5			Y		BUR_BH113_5.0	
Termination Depth at:5 m			5.2						

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BORE LOG ID BUR_BH114

Client: AFJV
Project No: 0628507
Project Name: SMW_Burwood
Site Address: Crn Parramatta Rd and Burwood Rd
Drilling Date: 20/12/2021 - 20/12/2021

Drilling Method: Augering Solid Fligh
Hole Diam./Width (mm): 125
Surface Completion: Backfill
Final Water Level (m bgl):

Elevation (Ground):
Elevation (Case):
Easting (MGA): -33.868715
Northing (MGA): 151.107292

Comments:

Log By: MB/TR
Checked By:

Material Description	Depth (m)	Analysed	PID	Samples	Additional Observations
CONCRETE: Concrete Slab		Y	0.4	BUR_BH114_0.2	
FILL: Brown/red sandy fill, trace gravels, crushed brick and ceramic		Y	1	BUR_BH114_0.5	
CLAY: Grey mottled red clay, medium plasticity, harder with depth (Natural)	1				
CLAY: Grey shaley clay, hard	2				
	3				
	4				
	5	Y	0.2	BUR_BH114_5.0	
SHALE: Dark grey shale, rock, hard, dense	6				
	7				
	8				
SILTSTONE: Light grey siltstone, hard	9				
	10	Y	0.3	BUR_BH114_10.0	
	11				
	12				
	13				
	14				
	15	Y	0.4	BUR_BH114_15.0	
Termination Depth at:15 m	16				
	17				
	18				
	19				

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BORE LOG ID BUR_BH115

Client: AFJV
Project No: 0628507
Project Name: SMW_Burwood
Site Address: Crn Parramatta Rd and Burwood Rd
Drilling Date: 21/12/2021 - 21/12/2021

Drilling Method: Augering Solid Fligh
Hole Diam./Width (mm): 125
Surface Completion: Backfill
Final Water Level (m bgl):

Elevation (Ground):
Elevation (Case):
Easting (MGA): -33.868949
Northing (MGA): 151.105557

Comments:

Log By: MB/TR
Checked By:

Material Description	Symbol	Well Diagram	Depth (m)	% Recovery	Sample Type	Analysed	PID	Samples	Additional Observations
CONCRETE: Concrete Slab						Y	0.6	BUR_BH115_0.2	
FILL: Brown/black sandy fill, with gravels and bitumen						Y	0.4	BUR_BH115_0.5	
FILL: Brown silty clay fill, minor gravels			1			Y	1.2	BUR_BH115_1.0	
CLAY: Grey/orange clay, dense, medium-low plasticity (Natural)			2						
SHALE: Brown/grey clayey shale, hard, dry			3						
			4						
			5			Y	2.4	BUR_BH115_5.0	
			6						
SILTSTONE: Grey siltstone, hard, dry			7						
			8						
			9						
			10			Y	2.1	BUR_BH115_10.0	
			11						
			12						
			13						
			14						
			15			Y	1.1	BUR_BH115_15.0	
Termination Depth at:15 m			16						
			17						
			18						
			19						

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BORE LOG ID BUR_BH116

Client: AFJV
Project No: 0628507
Project Name: SMW_Burwood
Site Address: Crn Parramatta Rd and Burwood Rd
Drilling Date: 21/12/2021 - 21/12/2021

Drilling Method: Augering Solid Fligh
Hole Diam./Width (mm): 125
Surface Completion: Backfill
Final Water Level (m bgl):

Elevation (Ground):
Elevation (Case):
Easting (MGA): -33.869265
Northing (MGA): 151.105606

Comments:

Log By: MB/TR
Checked By:

Material Description	Symbol	Well Diagram	Depth (m)	% Recovery	Sample Type	Analysed	PID	Samples	Additional Observations
CONCRETE: Concrete Slab									Bonded ACM fragment
FILL: Brown silty clay fill, crushed brick and gravels, ACM			0.2			Y	0.8	BUR_BH116_0.2 BUR_BH116_0.2 ACM	
			0.4			Y	0.7	BUR_BH116_0.5	
			0.6						
			0.8						
CLAY: Brown/red and grey clay, dense, medium-low plasticity (Natural)			1						
			1.2						
			1.4						
			1.6						
			1.8						
SHALE: Grey/brown silty shale, hard, dense			2						
			2.2						
			2.4						
			2.6						
			2.8						
			3			Y	0.2	BUR_BH116_3.0	
Termination Depth at:3 m			3.2						
			3.4						
			3.6						
			3.8						
			4						
			4.2						
			4.4						
			4.6						
			4.8						

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BORE LOG ID BUR_BH117

Client: AFJV
Project No: 0628507
Project Name: SMW_Burwood
Site Address: Crn Parramatta Rd and Burwood Rd
Drilling Date: 21/12/2021 - 21/12/2021

Drilling Method: Augering Solid Fligh
Hole Diam./Width (mm): 125
Surface Completion: Backfill
Final Water Level (m bgl):

Elevation (Ground):
Elevation (Case):
Easting (MGA): -33.869284
Northing (MGA): 151.105751

Comments:

Log By: MB/TR
Checked By:

Material Description	Symbol	Well Diagram	Depth (m)	% Recovery	Sample Type	Analysed	PID	Samples	Additional Observations
CONCRETE: Concrete Slab			0.2			Y	0.3	BUR_BH117_0.2	
FILL: Dark brown silty clay fill, ceramic, brick and glass inclusions			0.4						
			0.6						
			0.8						
CLAY: Orange/grey mottled clay, dense, dry, medium-low plasticity (Natural)			1			Y	1.5	BUR_BH117_1.0	
			1.2						
			1.4						
			1.6						
			1.8						
			2						
			2.2						
			2.4						
			2.6						
			2.8						
			3			Y		BUR_BH117_3.0	
Termination Depth at:3 m			3.2						
			3.4						
			3.6						
			3.8						
			4						
			4.2						
			4.4						
			4.6						
			4.8						

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BORE LOG ID BUR_BH118

Client: AFJV
Project No: 0628507
Project Name: SMW_Burwood
Site Address: Crn Parramatta Rd and Burwood Rd
Drilling Date: 16/12/2021 - 16/12/2021

Drilling Method: Augering Solid Fligh
Hole Diam./Width (mm): 125
Surface Completion: Backfill
Final Water Level (m bgl):

Elevation (Ground):
Elevation (Case):
Easting (MGA): -33.86826
Northing (MGA): 151.105808

Comments:

Log By: MB/TR
Checked By:

Material Description	Symbol	Well Diagram	Depth (m)	% Recovery	Sample Type	Analysed	PID	Samples	Additional Observations
ASPHALT:									
ROADBASE:			0.2			Y	2.9	BUR_BH118_0.25	
FILL: Brown Silty Clay fill low-medium plasticity, soft, slightly moist, angular to sub angular gravels			0.4						
			0.6						
SILTY CLAY: Red/orange/grey mottled silty clay, medium-high plasticity, slightly moist, soft			0.8						
			1						
			1.2						
SILTY CLAY: Grey/orange mottled silty clay, slightly moist, low-medium plasticity, hard-stiff			1.4			Y	0.2	BUR_BH118_1.5	
			1.6						
SHALE: Red/orange/grey weathered rock, hard, dry			1.8						
			2						
			2.2						
Termination Depth at:2.2 m			2.4						
			2.6						
			2.8						
			3						
			3.2						
			3.4						
			3.6						
			3.8						
			4						
			4.2						
			4.4						
			4.6						
			4.8						

DRAFT

Disclaimer This log is intended for environmental not geotechnical purposes.
produced by ESlog.ESdat.net on 01 Feb 2022

BORE LOG ID BUR_BH119

Client: AFJV
Project No: 0628507
Project Name: SMW_Burwood
Site Address: Crn Parramatta Rd and Burwood Rd
Drilling Date: 16/12/2021 - 16/12/2021

Drilling Method: Hand Augering
Hole Diam./Width (mm): 125
Surface Completion: Backfill
Final Water Level (m bgl):

Elevation (Ground):
Elevation (Case):
Easting (MGA): -33.868856
Northing (MGA): 151.105863

Comments:

Log By: MB/TR
Checked By:

Material Description	Symbol	Well Diagram	Depth (m)	% Recovery	Sample Type	Analysed	PID	Samples	Additional Observations
ASPHALT:									
ROADBASE: Roadbase with crushed sandstone			0.2			Y		BUR_BH119_0.25	
FILL: Brown silty clay, medium-high plasticity, slightly moist, angular-sub angular gravels, soft-hard			0.4 0.6 0.8						
SILTY CLAY: Grey/orange mottled silty clay, medium plasticity, slightly moist, some organic inclusions, Hard-stiff			1 1.2			Y		BUR_BH119_1.0	
Termination Depth at:1.3 m			1.4 1.6 1.8 2 2.2 2.4 2.6 2.8 3 3.2 3.4 3.6 3.8 4 4.2 4.4 4.6 4.8						

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produced by ESlog.ESdat.net on 01 Feb 2022

BORE LOG ID BUR_BH120

Client: AFJV
Project No: 0628507
Project Name: SMW_Burwood
Site Address: Crn Parramatta Rd and Burwood Rd
Drilling Date: 17/12/2021 - 17/12/2021

Drilling Method: Hand Augering
Hole Diam./Width (mm): 125
Surface Completion: Backfill
Final Water Level (m bgl):

Elevation (Ground):
Elevation (Case):
Easting (MGA): -33.868504
Northing (MGA): 151.106401

Comments:

Log By: MB/TR
Checked By:

Material Description	Symbol	Well Diagram	Depth (m)	% Recovery	Sample Type	Analysed	PID	Samples	Additional Observations
CONCRETE: Concrete Slab									
ROADBASE:			0.2			Y	0.6	BUR_BH120_0.2	
FILL: Dark brown/red clay fill with trace gravels			0.4			Y	0.6	BUR_BH120_0.5	
			0.6						
			0.8						
			1						
CLAY: Grey/brown clay, soft, plastic (Natural)			1.2						
			1.4						
Termination Depth at:1.5 m			1.6						
			1.8						
			2						
			2.2						
			2.4						
			2.6						
			2.8						
			3						
			3.2						
			3.4						
			3.6						
			3.8						
			4						
			4.2						
			4.4						
			4.6						
			4.8						

DRAFT

Disclaimer This log is intended for environmental not geotechnical purposes.
produced by ESlog.ESdat.net on 01 Feb 2022

BORE LOG ID BUR_BH121

Client: AFJV
Project No: 0628507
Project Name: SMW_Burwood
Site Address: Crn Parramatta Rd and Burwood Rd
Drilling Date: 18/01/2022 - 18/01/2022

Drilling Method: Hand Augering
Hole Diam./Width (mm): 125
Surface Completion: Backfill
Final Water Level (m bgl):

Elevation (Ground):
Elevation (Case):
Easting (MGA): -33.86891
Northing (MGA): 151.1066

Comments:

Log By: MB/TR
Checked By:

Material Description	Symbol	Well Diagram	Depth (m)	% Recovery	Sample Type	Analysed	PID	Samples	Additional Observations
CONCRETE: Concrete Slab						Y	0.3	BUR_BH121_0.16	
FILL: Dark brown/grey gravelly sandy clay fill, no plasticity, high quantity of gravels (angular to sub-angular), small to large, coarse grained sand, slightly moist, medium density-dense			0.2						
Termination Depth at:0.17 m			0.4						
			0.6						
			0.8						
			1						
			1.2						
			1.4						
			1.6						
			1.8						
			2						
			2.2						
			2.4						
			2.6						
			2.8						
			3						
			3.2						
			3.4						
			3.6						
			3.8						
			4						
			4.2						
			4.4						
			4.6						
			4.8						

DRAFT

Disclaimer This log is intended for environmental not geotechnical purposes.
produced by ESlog.ESdat.net on 01 Feb 2022

BORE LOG ID BUR_BH122

Client: AFJV
Project No: 0628507
Project Name: SMW_Burwood
Site Address: Crn Parramatta Rd and Burwood Rd
Drilling Date: 18/01/2022 - 18/01/2022

Drilling Method: Hand Augering
Hole Diam./Width (mm): 125
Surface Completion: Backfill
Final Water Level (m bgl):

Elevation (Ground):
Elevation (Case):
Easting (MGA): -33.868707
Northing (MGA): 151.10724

Comments:

Log By: MB/TR
Checked By:

Material Description	Symbol	Well Diagram	Depth (m)	% Recovery	Sample Type	Analysed	PID	Samples	Additional Observations
CONCRETE: Concrete Slab						Y	0.4	BUR_BH122_0.13	
FILL: Brown clayey sandy fill, coarse, loose, very moist, minor gravels, angular to sub-angular			0.2			Y	0.1	BUR_BH122_0.3	
FILL: Brown/red mottling silty clay fill, occasional gravels (angular to sub-angular), slightly moist to moist, soft, high plasticity			0.4						
			0.6			Y	0.2	BUR_BH122_0.7	
SILTY CLAY: Red/grey mottled silty clay, low plasticity, firm-hard, dry- slightly moist, harder with increasing depth (Natural)			0.8						
Termination Depth at:0.75 m			1						
			1.2						
			1.4						
			1.6						
			1.8						
			2						
			2.2						
			2.4						
			2.6						
			2.8						
			3						
			3.2						
			3.4						
			3.6						
			3.8						
			4						
			4.2						
			4.4						
			4.6						
			4.8						

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Disclaimer This log is intended for environmental not geotechnical purposes.
produced by ESlog.ESdat.net on 01 Feb 2022

BORE LOG ID BUR_BH123

Client: AFJV
Project No: 0628507
Project Name: SMW_Burwood
Site Address: Crn Parramatta Rd and Burwood Rd
Drilling Date: 18/01/2022 - 18/01/2022

Drilling Method: Hand Augering
Hole Diam./Width (mm): 125
Surface Completion: Backfill
Final Water Level (m bgl):

Elevation (Ground):
Elevation (Case):
Easting (MGA): -33.86893
Northing (MGA): 151.107642

Comments:

Log By: MB/TR
Checked By:

Material Description	Symbol	Well Diagram	Depth (m)	% Recovery	Sample Type	Analysed	PID	Samples	Additional Observations
CONCRETE: Concrete Slab						Y	0.3	BUR_BH123_0.12	
FILL: Brown sandy fill, coarse, loose, gravels (angular-sub-angular) inclusions			0.2			Y	0.2	BUR_BH123_0.3	
FILL: Brown with red mottling silty clay fill, medium-high plasticity, slightly moist, soft			0.4						
SILTY CLAY: Red/brown/orange mottled clay, medium-high plasticity, slightly moist, soft -hard increasing with depth (Natural)			0.6						
			0.8						
			1			Y	0.4	BUR_BH123_1.0	
			1.2						
			1.4						
Termination Depth at:1.4 m			1.6						
			1.8						
			2						
			2.2						
			2.4						
			2.6						
			2.8						
			3						
			3.2						
			3.4						
			3.6						
			3.8						
			4						
			4.2						
			4.4						
			4.6						
			4.8						

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Disclaimer This log is intended for environmental not geotechnical purposes.
produced by ESlog.ESdat.net on 01 Feb 2022

BORE LOG ID BUR_BH124

Client: AFJV
Project No: 0628507
Project Name: SMW_Burwood
Site Address: Crn Parramatta Rd and Burwood Rd
Drilling Date: 18/01/2022 - 18/01/2022

Drilling Method: Hand Augering
Hole Diam./Width (mm): 125
Surface Completion: Backfill
Final Water Level (m bgl):

Elevation (Ground):
Elevation (Case):
Easting (MGA): -33.868676
Northing (MGA): 151.106783

Comments:

Log By: MB/TR
Checked By:

Material Description	Symbol	Well Diagram	Depth (m)	% Recovery	Sample Type	Analysed	PID	Samples	Additional Observations
CONCRETE: Concrete Slab						Y	0.2	BUR_BH124_0.15	
FILL: Dark brown/grey gravelly sandy clay fill, no plasticity, high quantity of gravels (angular to sub-angular), small to large, coarse grained sand, slightly moist, medium density-dense			0.2						
Termination Depth at:0.16 m			0.4						
			0.6						
			0.8						
			1						
			1.2						
			1.4						
			1.6						
			1.8						
			2						
			2.2						
			2.4						
			2.6						
			2.8						
			3						
			3.2						
			3.4						
			3.6						
			3.8						
			4						
			4.2						
			4.4						
			4.6						
			4.8						

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produced by ESlog.ESdat.net on 01 Feb 2022

BORE LOG ID BUR_BH125

Client: AFJV
Project No: 0628507
Project Name: SMW_Burwood
Site Address: Crn Parramatta Rd and Burwood Rd
Drilling Date: 21/12/2021 - 21/12/2021

Drilling Method: Augering Solid Fligh
Hole Diam./Width (mm): 125
Surface Completion: Backfill
Final Water Level (m bgl):

Elevation (Ground):
Elevation (Case):
Easting (MGA): -33.869187
Northing (MGA): 151.105415

Comments:

Log By: MB/TR
Checked By:

Material Description	Symbol	Well Diagram	Depth (m)	% Recovery	Sample Type	Analysed	PID	Samples	Additional Observations
CONCRETE: Concrete Slab			0						
FILL: Brown silty clay fill, bricks and sheep bone			0.2			Y	2.8	BUR_BH125_0.2	
			0.4			Y		BUR_BH125_0.5	
			0.6						
FILL: Brown silty clay fill, low plasticity, trace gravels and bitumen			0.8						
			1			Y	2.1	BUR_BH125_1.0	
CLAY: Orange/grey mottled clay, dense, medium plasticity (Natural)			1.2						
			1.4						
			1.6						
			1.8						
SHALE: Grey clayey Shale, hard			2						
			2.2						
			2.4						
			2.6						
			2.8						
			3						
			3.2						
			3.4						
			3.6						
			3.8						
			4						
			4.2						
			4.4						
			4.6						
			4.8						
			5			Y		BUR_BH125_5.0	
Termination Depth at:5 m			5.2						

DRAFT

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produced by ESlog.ESdat.net on 01 Feb 2022

Appendix V - Laboratory Analytical Certificates

Commercial in Confidence

ADE CONSULTING GROUP
SOLUTIONS THROUGH INNOVATION

ESA-F-02
Chain of Custody (Internal)

T33

Date Printed: 2/05/2022

Document Revision Date: 30.06.2020

ESA-F-02 COC - Chain Of Custody (Internal: Sydney Laboratory Services)

ADE CONSULTING GROUP
SOLUTIONS THROUGH INNOVATION

PROJECT:	AF JV_BWN-SWS
PROJECT NUMBER - INVOICE NUMBER	21.2041
SAMPLES DELIVERED BY:	ADE Consulting Group 6/7 Millennium Ct, Silverwater NSW 2128
SAMPLERS:	Shane Metcalfe
TURNAROUND:	24h: 48h: 72h: X 5 WORKING DAYS:
SAMPLING DATE:	23/04/2022
AFTER TEST STORAGE:	ROOM TEMP: ☐ FRIDGE: X FREEZER: ☐ >>4 WEEKS: ☐ OTHER: ☐
REPORT FORMAT:	HARD COPY: ☐ E-MAIL: X
CONSULTANTS SIGNATURE:	CONSULTANT E-MAIL: stephen.bowly@ade.group megan.lynch@ade.group
PROJECT MANAGERS SIGNATURE:	PROJECT MANAGERS E-MAIL: thesan.naidoo@ade.group

LABORATORY REFERENCE NO. (Lab use ONLY)	21.2041.WAC8
RECEIVED BY:	Tree IT
SAMPLES: 13 CHILLED: X	CUSTODY SEAL INTACT: X
MINIMAL HEADSPACE : ☑	
DATE: 29.04.22 TIME: 7:00am	TEMPERATURE UPON RECEIPT: °C
LIMS LOT NO. 2201965	COMMENTS:

2022013 ..

LIMS Sample ID (Lab Use)	Sample ID (ADE)	MATRIX	SAMPLE DATE	CONTAINER DATA: TYPE & PRESERVATIVE	CONTAINER DATA: NO.	pH/pH fox	BTEXN	8 Metal Suite	PAH	PCB	OCC/OPP	VOC	PFAS	TRH	Ph/EC	Asbestos 65g				
136	BWN_BH105-0.4	SOIL	23/04/2022		A1		x	x	x	x	x	x	x	x		x				
137	BWN_BH105-0.5-0.7		23/04/2022		A2		x	x	x	x	x	x	x	x		x				
138	BWN_BH105-1.3		23/04/2022		A3		x	x	x	x	x	x	x	x		x				
139	BWN_BH105-2.8		23/04/2022		A4		x	x	x	x	x	x	x	x		x				
140	BWN_BH106-0.4		23/04/2022		A5		x	x	x	x	x			x		x				
141	BWN_BH106-0.7		23/04/2022		A6		x	x	x	x	x			x		x				
142	BWN_BH106-1.1		23/04/2022		A7		x	x	x	x	x		x	x		x				
143	BWN_BH106-1.7		23/04/2022		A9		x	x	x	x	x			x		x				
144	BWN_BH108-0.3		23/04/2022		A11		x	x	x	x	x	x	x	x		x				
145	BWN_BH108-0.5		23/04/2022		A12		x	x	x	x	x	x		x		x				
146	BWN_BH108-0.9-1.0		23/04/2022		A13		x	x	x	x	x	x	x	x		x				
147	BWN_BH108-2.0		23/04/2022		A14		x	x	x	x	x	x		x		x				
148	BWN_BH108-BR		23/04/2022		A15		x	x	x	x	x			x						

ANALYSES REQUIRED

NOTES

POTENTIAL HAZARDOUS CONTAMINANTS:

☐ ASBESTOS ☐ HYDROCARBONS
☐ LEAD/ARSENIC ☐ NO KNOWN CONTAMINATION
☐ OTHER:_____

LAB PLEASE *EMAIL COC RECEIPT: ☐

Sample Comments

ALL PFAS TO BE ANALYSED AT AN LOR OF 5 µG/KG

Comments:

Container Type and Preservative: P = Unpreserved Plastic; PN = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; PNA = Sodium Hydroxide Preserved Plastic; PC = HCl preserved Plastic; VC = Vial HCl Preserved; SP = Sulfuric Preserved Plastic; VB = Vial Sodium Bisulphate Preserved; VS = Vial Sulfuric Preserved; V = Unpreserved Vial; G = Amber Glass Unpreserved; SG = Sulfuric Preserved Amber Glass; F = Formaldehyde Preserved Glass; HS = HCl preserved Speciation bottle; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottle; ST = Sterile Bottle; J = Unpreserved Glass Jar; ASS = Plastic Bag for Acid Sulfate Soils; B = Unpreserved Bag.

Due Date: 04/05/22

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Sydney Laboratory Services

A division of A. D. Envirotech Australia Pty Ltd
A.C.N. 093 452 950
Unit 4/10-11 Millennium Court,
Silverwater 2128
Ph: (02) 9648-6669

Accreditation No.14664
Accredited for compliance with ISO/IEC 17025 - Testing.

This certificate of analysis contains General Comments and Analytical Results. Quality Control Report and Laboratory Quality Acceptance Criteria have been issued separately.

This report supersedes any previous report(s) with this reference. This document shall not be reproduced, except in full.

This report has been electronically signed by authorised signatories below.

Authorised By

Kaiyu Li

General Comments

Samples are analysed on as received basis. Sampling is not covered by NATA accreditation.

Where moisture determination has been performed, results are reported on dry weight basis.

Where the PQL of reported result differs from standard PQL, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Samples were analysed within holding time described by laboratory internal procedures if not stated otherwise. If samples delivered do not meet required analytical criteria, results will be marked with ^.

However surrogate standards are added to samples, results are not corrected for standards recoveries.

Analysis of VOC in water samples are performed on unfiltered waters (as received) spiked with surrogates and injection standards only.

SLS is responsible for all the information in the report, except that provided by the customer.

All sampling information included in the report has been provided by customer.

Information provided by the customer can affect the validity of the results.

Certificate of Analysis

Contact:	Thesan Naidoo	**Date Reported:**	10/05/2022
Customer:	ADE Consulting Group	**No. of Samples:**	2
Address:	Unit 6 7 Millennium Court Silverwater NSW	**Date Received:**	9/05/2022
		Date of Analysis:	9/05/2022

Cust Ref: 21.2041.BWN.WAC1

Glossary:

*NATA accreditation does not cover the performance of this service
ND-not detected,
NT-not tested
INS-Insufficient material to perform the test
LCS-Laboratory Control Sample
RPD-Relative Percent Difference
N/A-Not Applicable
< less than
> greater than
PQL- Practical Quantitation Limit
^Analytical result might be compromised due to sample condition or holding time requirements
Reaction rate 1 = Slight
Reaction rate 2 = Moderate
Reaction rate 3 = High
Reaction rate 4 = Vigorous

Certificate of Analysis

	Sample ID:	2022014434	2022014435
	Sample Name	TB	TS
Parameter	Units	PQL	
ESA-P-ORG08 & ORG10			
Benzene		1	<1 ug/L	74%
Toluene		1	<1 ug/L	88%
Ethylbenzene		1	<1 ug/L	88%
m,p Xylene		2	<2 ug/L	72%
o Xylene		1	<1 ug/L	85%
Fluorobenzene (Surr.)	%		130	85

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A.C.N. 093 452 950
Unit 4/10-11 Millennium Court,
Silverwater 2128
Ph: (02) 9648-6669

Accreditation No.14664
Accredited for compliance with ISO/IEC 17025 - Testing.

This Quality Control Report contains results of QAQC samples analysis and the Laboratory Acceptance Criteria.

This report supersedes any previous report(s) with this reference. This document shall not be reproduced, except in full.

This report has been electronically signed by authorised signatories below.

Authorised By

Kaiyu Li

General Comments

Duplicate samples and matrix spike may not be prepared on smaller jobs, however are analysed at frequency. QAQC samples shown within the report as e.g. Batch Blank, Batch Matrix Spike were performed on samples not reported on that Certificate of Analysis.

Blank This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in the same manner as for samples.
Duplicate This is the interlaboratory split of a random sample from the processed batch
Matrix Spike A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample): This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class.
Surr. (Surrogate Spike) Surrogates are known additions to each sample, blank and matrix spike or LCS in a batch. Surrogates are chosen as a compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Blank shall be < PQL
Matrix Spikes and LCS: Generally 70-130% for inorganics/metals/PFAS, 60-140% for organics is acceptable. Matrix heterogeneity may result in matrix spike analyses falling outside these limits
RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:
Results <10 times the PQL : No Limit
Results between 10-20 times the PQL : RPD must lie between 0-50%
Results >20 times the PQL : RPD must lie between 0-30%
Surrogate Recoveries : Recoveries must lie between 50-150%

SLS is responsible for all the information in the report, except that provided by the customer.

All sampling information included in the report has been provided by customer.

Information provided by the customer can affect the validity of the results.

Quality Control Report

Contact:	Thesan Naidoo	**Date Reported:**	10/05/2022
Customer:	ADE Consulting Group	**No. of Samples:**	5
Address:	Unit 6 7 Millennium Court Silverwater NSW	**Date Received:**	9/05/2022
		Date of Analysis:	9/05/2022

Cust Ref: 21.2041.BWN.WAC1

Glossary:

*NATA accreditation does not cover the performance of this service
ND-not detected,
NT-not tested
INS-Insufficient material to perform the test
LCS-Laboratory Control Sample
RPD-Relative Percent Difference
N/A-Not Applicable
< less than
> greater than
PQL- Practical Quantitation Limit
^Analytical result might be compromised due to sample condition or holding time requirements
Reaction rate 1 = Slight
Reaction rate 2 = Moderate
Reaction rate 3 = High
Reaction rate 4 = Vigorous

Quality Control Report

Sample ID: **D202201311401**

Sample Name **PCY2 - TP2- 0.5-D**

Parameter	*Units*	*PQL*	
ESA-P-ORG7 & ORG8			
Benzene			Pass
Toluene			Pass
Ethylbenzene			Pass
m.p Xylene			Pass
o Xylene			Pass
Fluorobenzene (Surr.)	%		106

Sample ID: **D202201312301**

Sample Name **PCY2 -BR**

Parameter	*Units*	*PQL*	
ESA-P-ORG7 & ORG8			
Benzene			Pass
Toluene			Pass
Ethylbenzene			Pass
m.p Xylene			Pass
o Xylene			Pass
Fluorobenzene (Surr.)	%		85

Sample ID:	**Q2022003140**
Sample Name	

Parameter	*Units*	*PQL*	BTEX Blank - Soil
ESA-P-ORG7 & ORG8			
Benzene	mg/kg	0.5	<0.50
Toluene	mg/kg	0.5	<0.50
Ethylbenzene	mg/kg	1	<1.0
m.p Xylene	mg/kg	2	<2.0
o Xylene	mg/kg	1	<1.0

Sample ID:	**Q2022003141**
Sample Name	

Parameter	*Units*	*PQL*	BTEX Blank Sp-Soil
ESA-P-ORG7 & ORG8			
Benzene	%		107
Toluene	%		93
Ethylbenzene	%		88
m.p Xylene	%		90
o Xylene	%		89
Fluorobenzene (Surr.)	%		101

Sample ID:	**S202201311301**
Sample Name	**PCY2 - TP1- 0.5-D**

Parameter	*Units*	*PQL*	
ESA-P-ORG-07 & 08			
Benzene	%		112
Toluene	%		97
Ethylbenzene	%		93
m.p Xylene	%		95
o Xylene	%		94
Fluorobenzene (Surr.)	%		103

Document Revision Date: 30.06.2020

ESA-F-02 COC - Chain Of Custody (External Envirolab)

ADECONSULTINGGROUP
SOLUTIONS THROUGH INNOVATION

PROJECT:	AFJV BWN Site-Wide WAC	LABORATORY REFERENCE NO. (Lab use ONLY):	295128
PROJECT NUMBER - INVOICE NUMBER	21.2041_BWN-Site-Wide WAC		
SAMPLES DELIVERED BY:	ADE Consulting Group 6/7 Millennium Ct, Silverwater NSW 2128	RECEIVED BY:	SIGNATURE: 10/5/2022
SAMPLERS:	Elisha Cassidy, Richard Wang	SAMPLES: CHILLED: ☐ PRESERVED: ☐	PRESERVATION METHOD: CUSTODY SEAL INTACT: ☐
TURNAROUND:	meday 24h: XX URGENT TAT 48h: 72h: 4 WORKING DAYS	MINIMAL HEADSPACE : ☐	WITHIN HOLDING TIME: ☐
SAMPLING DATE:	06.05.2022	DATE: TIME:	TEMPERATURE UPON RECEIPT: °C
AFTER TEST STORAGE:	ROOM TEMP: ☐ FRIDGE: X FREEZER: ☐ >>4 WEEKS: ☐ OTHER: ☐	LIMS LOT NO.	LIMS/EXCEL SIGNATURE: COMMENTS:
REPORT FORMAT:	HARD COPY: ☐ E-MAIL: X	ANALYSES REQUIRED	NOTES
CONSULTANTS SIGNATURE:	CONSULTANT E-MAIL: elisha.cassidy@ade.group, richard.wang@ade.group		
PROJECT MANAGERS SIGNATURE:	PROJECT MANAGERS E-MAIL: thesan.naidoo@ade.group		

SAMPLE DATA				CONTAINER DATA		Chem Lab										Asbestos						Mould	NOTES
LIMS Sample ID (Lab Use)	Sample ID (ADE)	MATRIX	SAMPLE DATE	TYPE & PRESERVATIVE	NO.	6 Metal Suite	8 Metal Suite	BTEX	PAH	OCP/OPP	PCB	vTRH (C6-C10)	TRH (C10-C40)	VOCS	pH/pH fox	PFAS	Bulk	Dust	Dust Swab	Soil 65g	Soil 500g NEPM	Airborne Asbesos Monitoring	Mould	POTENTIAL HAZARDOUS CONTAMINANTS: ☐ ASBESTOS ☐ HYDROCARBONS ☐ LEAD/ARSENIC ☐ NO KNOWN CONTAMINATION ☐ OTHER:_____ LAB PLEASE *EMAIL COC RECEIPT: ☐ Sample Comments
1	SES-BH4-SR2	Soil	06.05.2022	G	1		x	x	x	x	x	x	x											

Comments:

Container Type and Preservative: P = Unpreserved Plastic; PN = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; PNA = Sodium Hydroxide Preserved Plastic; PC = HCl preserved Plastic; VC = Vial HCl Preserved; SP = Sulfuric Preserved Plastic; VB = Vial Sodium Bisulphate Preserved; VS = Vial Sulfuric Preserved; V = Unpreserved Vial; G = Amber Glass Unpreserved; SG = Sulfuric Preserved Amber Glass; F = Formaldehyde Preserved Glass; HS = HCl preserved Speciation bottle; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottle; ST = Sterile Bottle; J = Unpreserved Glass Jar; ASS = Plastic Bag for Acid Sulfate Soils; B = Unpreserved Bag.

ENVIROLAB

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 295128
Date Received: 10/5/2022
Time Received: 1:30
Received By:
Temp: Cool/Ambient
Cooling: Ice
Security: Intact
4°c

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Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

SAMPLE RECEIPT ADVICE

Client Details

Client	ADE CONSULTING GROUP PTY LTD
Attention	Thesan Naidoo

Sample Login Details

Your reference	21.2041_BWN-Site-Wide WAC
Envirolab Reference	295128
Date Sample Received	10/05/2022
Date Instructions Received	10/05/2022
Date Results Expected to be Reported	10/05/2022

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	1 Soil
Turnaround Time Requested	Same day
Temperature on Receipt (°C)	4
Cooling Method	Ice
Sampling Date Provided	YES

Comments

Nil

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	**Phone: 02 9910 6200**
Fax: 02 9910 6201	**Fax: 02 9910 6201**
Email: ahie@envirolab.com.au	**Email: jhurst@envirolab.com.au**

Analysis Underway, details on the following page:

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

Sample ID	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	Organophosphorus Pesticides in Soil	PCBs in Soil	Acid Extractable metalsin soil
SES-BH4-SR2	✓	✓	✓	✓	✓	✓	✓

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.
Requests for longer term sample storage must be received in writing.
Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.
TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

CERTIFICATE OF ANALYSIS 295128

Client Details

Client	ADE CONSULTING GROUP PTY LTD
Attention	Thesan Naidoo
Address	Unit 6, 7 Millenium Court, Silverwater, NSW, 2128

Sample Details

Your Reference	**21.2041_BWN-Site-Wide WAC**
Number of Samples	1 Soil
Date samples received	10/05/2022
Date completed instructions received	10/05/2022

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Report Details

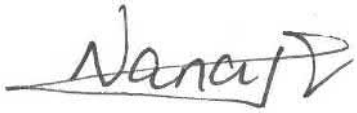
Date results requested by	10/05/2022
Date of Issue	10/05/2022

NATA Accreditation Number 2901. This document shall not be reproduced except in full.

Accredited for compliance with ISO/IEC 17025 - Testing. **Tests not covered by NATA are denoted with ***

Results Approved By
Dragana Tomas, Senior Chemist
Giovanni Agosti, Group Technical Manager
Hannah Nguyen, Metals Supervisor
Steven Luong, Senior Chemist

Authorised By



Nancy Zhang, Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil		
Our Reference		295128-1
Your Reference	UNITS	SES-BH4-SR2
Date Sampled		06/05/2022
Type of sample		Soil
Date extracted	-	10/05/2022
Date analysed	-	10/05/2022
TRH C_6 - C_9	mg/kg	<25
TRH C_6 - C_{10}	mg/kg	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25
Benzene	mg/kg	<0.2
Toluene	mg/kg	<0.5
Ethylbenzene	mg/kg	<1
m+p-xylene	mg/kg	<2
o-Xylene	mg/kg	<1
Naphthalene	mg/kg	<1
Total +ve Xylenes	mg/kg	<1
Surrogate aaa-Trifluorotoluene	%	101

svTRH (C10-C40) in Soil		
Our Reference		295128-1
Your Reference	UNITS	SES-BH4-SR2
Date Sampled		06/05/2022
Type of sample		Soil
Date extracted	-	10/05/2022
Date analysed	-	10/05/2022
TRH C_{10} - C_{14}	mg/kg	<50
TRH C_{15} - C_{28}	mg/kg	<100
TRH C_{29} - C_{36}	mg/kg	<100
Total +ve TRH (C10-C36)	mg/kg	<50
TRH >C_{10} -C_{16}	mg/kg	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50
TRH >C_{16} -C_{34}	mg/kg	<100
TRH >C_{34} -C_{40}	mg/kg	<100
Total +ve TRH (>C10-C40)	mg/kg	<50
Surrogate o-Terphenyl	%	84

PAHs in Soil		
Our Reference		295128-1
Your Reference	UNITS	SES-BH4-SR2
Date Sampled		06/05/2022
Type of sample		Soil
Date extracted	-	10/05/2022
Date analysed	-	10/05/2022
Naphthalene	mg/kg	<0.1
Acenaphthylene	mg/kg	<0.1
Acenaphthene	mg/kg	<0.1
Fluorene	mg/kg	<0.1
Phenanthrene	mg/kg	<0.1
Anthracene	mg/kg	<0.1
Fluoranthene	mg/kg	<0.1
Pyrene	mg/kg	<0.1
Benzo(a)anthracene	mg/kg	<0.1
Chrysene	mg/kg	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2
Benzo(a)pyrene	mg/kg	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1
Total +ve PAH's	mg/kg	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5
Surrogate p-Terphenyl-d14	%	82

Organochlorine Pesticides in soil		
Our Reference		295128-1
Your Reference	UNITS	SES-BH4-SR2
Date Sampled		06/05/2022
Type of sample		Soil
Date extracted	-	10/05/2022
Date analysed	-	10/05/2022
alpha-BHC	mg/kg	<0.1
HCB	mg/kg	<0.1
beta-BHC	mg/kg	<0.1
gamma-BHC	mg/kg	<0.1
Heptachlor	mg/kg	<0.1
delta-BHC	mg/kg	<0.1
Aldrin	mg/kg	<0.1
Heptachlor Epoxide	mg/kg	<0.1
gamma-Chlordane	mg/kg	0.1
alpha-chlordane	mg/kg	<0.1
Endosulfan I	mg/kg	<0.1
pp-DDE	mg/kg	<0.1
Dieldrin	mg/kg	<0.1
Endrin	mg/kg	<0.1
Endosulfan II	mg/kg	<0.1
pp-DDD	mg/kg	<0.1
Endrin Aldehyde	mg/kg	<0.1
pp-DDT	mg/kg	<0.1
Endosulfan Sulphate	mg/kg	<0.1
Methoxychlor	mg/kg	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1
Surrogate TCMX	%	86

Organophosphorus Pesticides in Soil		
Our Reference		295128-1
Your Reference	UNITS	SES-BH4-SR2
Date Sampled		06/05/2022
Type of sample		Soil
Date extracted	-	10/05/2022
Date analysed	-	10/05/2022
Dichlorvos	mg/kg	<0.1
Dimethoate	mg/kg	<0.1
Diazinon	mg/kg	<0.1
Chlorpyriphos-methyl	mg/kg	<0.1
Ronnel	mg/kg	<0.1
Fenitrothion	mg/kg	<0.1
Malathion	mg/kg	<0.1
Chlorpyriphos	mg/kg	<0.1
Parathion	mg/kg	<0.1
Bromophos-ethyl	mg/kg	<0.1
Ethion	mg/kg	<0.1
Azinphos-methyl (Guthion)	mg/kg	<0.1
Surrogate TCMX	%	86

PCBs in Soil		
Our Reference		295128-1
Your Reference	UNITS	SES-BH4-SR2
Date Sampled		06/05/2022
Type of sample		Soil
Date extracted	-	10/05/2022
Date analysed	-	10/05/2022
Aroclor 1016	mg/kg	<0.1
Aroclor 1221	mg/kg	<0.1
Aroclor 1232	mg/kg	<0.1
Aroclor 1242	mg/kg	<0.1
Aroclor 1248	mg/kg	<0.1
Aroclor 1254	mg/kg	<0.1
Aroclor 1260	mg/kg	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1
Surrogate TCMX	%	86

Acid Extractable metals in soil		
Our Reference		295128-1
Your Reference	UNITS	SES-BH4-SR2
Date Sampled		06/05/2022
Type of sample		Soil
Date prepared	-	10/05/2022
Date analysed	-	10/05/2022
Arsenic	mg/kg	6
Cadmium	mg/kg	<0.4
Chromium	mg/kg	21
Copper	mg/kg	10
Lead	mg/kg	20
Mercury	mg/kg	<0.1
Nickel	mg/kg	3
Zinc	mg/kg	3

Moisture		
Our Reference		295128-1
Your Reference	UNITS	SES-BH4-SR2
Date Sampled		06/05/2022
Type of sample		Soil
Date prepared	-	10/05/2022
Date analysed	-	10/05/2022
Moisture	%	31

Method ID	Methodology Summary
Inorg-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
Metals-020	Determination of various metals by ICP-AES.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).
Org-021	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.
Org-021	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD. Note, the Total +ve PCBs PQL is reflective of the lowest individual PQL and is therefore" Total +ve PCBs" is simply a sum of the positive individual PCBs.
Org-022	Determination of VOCs sampled onto coconut shell charcoal sorbent tubes, that can be desorbed using carbon disulphide, and analysed by GC-MS.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-022/025	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-MS/GC-MSMS. Note, the Total +ve reported DDD+DDE+DDT PQL is reflective of the lowest individual PQL and is therefore simply a sum of the positive individually report DDD+DDE+DDT.

Method ID	Methodology Summary
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS and/or GC-MS/MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013. For soil results:- 1. 'EQ PQL'values are assuming all contributing PAHs reported as <PQL are actually at the PQL. This is the most conservative approach and can give false positive TEQs given that PAHs that contribute to the TEQ calculation may not be present. 2. 'EQ zero'values are assuming all contributing PAHs reported as <PQL are zero. This is the least conservative approach and is more susceptible to false negative TEQs when PAHs that contribute to the TEQ calculation are present but below PQL. 3. 'EQ half PQL'values are assuming all contributing PAHs reported as <PQL are half the stipulated PQL. Hence a mid-point between the most and least conservative approaches above. Note, the Total +ve PAHs PQL is reflective of the lowest individual PQL and is therefore "Total +ve PAHs" is simply a sum of the positive individual PAHs.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-7	[NT]
Date extracted	-			10/05/2022	[NT]	[NT]	[NT]	[NT]	10/05/2022	[NT]
Date analysed	-			10/05/2022	[NT]	[NT]	[NT]	[NT]	10/05/2022	[NT]
TRH C_6 - C_9	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	110	[NT]
TRH C_6 - C_{10}	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	110	[NT]
Benzene	mg/kg	0.2	Org-023	<0.2	[NT]	[NT]	[NT]	[NT]	115	[NT]
Toluene	mg/kg	0.5	Org-023	<0.5	[NT]	[NT]	[NT]	[NT]	103	[NT]
Ethylbenzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	106	[NT]
m+p-xylene	mg/kg	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	112	[NT]
o-Xylene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	114	[NT]
Naphthalene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	117	[NT]	[NT]	[NT]	[NT]	115	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-7	[NT]
Date extracted	-			10/05/2022	[NT]	[NT]	[NT]	[NT]	10/05/2022	[NT]
Date analysed	-			10/05/2022	[NT]	[NT]	[NT]	[NT]	10/05/2022	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	92	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	76	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	100	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	92	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	76	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	100	[NT]
Surrogate o-Terphenyl	%		Org-020	88	[NT]	[NT]	[NT]	[NT]	93	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-7	[NT]
Date extracted	-			10/05/2022	[NT]	[NT]	[NT]	[NT]	10/05/2022	[NT]
Date analysed	-			10/05/2022	[NT]	[NT]	[NT]	[NT]	10/05/2022	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	78	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	89	[NT]
Fluorene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	82	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	108	[NT]
Anthracene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	86	[NT]
Pyrene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	85	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	75	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	104	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	78	[NT]	[NT]	[NT]	[NT]	90	[NT]

QUALITY CONTROL: Organochlorine Pesticides in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-7	[NT]
Date extracted	-			10/05/2022	[NT]	[NT]	[NT]	[NT]	10/05/2022	[NT]
Date analysed	-			10/05/2022	[NT]	[NT]	[NT]	[NT]	10/05/2022	[NT]
alpha-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	76	[NT]
HCB	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	71	[NT]
gamma-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	85	[NT]
delta-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	99	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	88	[NT]
gamma-Chlordane	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	86	[NT]
Dieldrin	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	92	[NT]
Endrin	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	82	[NT]
Endosulfan II	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	76	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	70	[NT]
Methoxychlor	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	81	[NT]	[NT]	[NT]	[NT]	83	[NT]

QUALITY CONTROL: Organophosphorus Pesticides in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-7	[NT]
Date extracted	-			10/05/2022	[NT]	[NT]	[NT]	[NT]	10/05/2022	[NT]
Date analysed	-			10/05/2022	[NT]	[NT]	[NT]	[NT]	10/05/2022	[NT]
Dichlorvos	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	108	[NT]
Dimethoate	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Diazinon	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chlorpyriphos-methyl	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Ronnel	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	87	[NT]
Fenitrothion	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	99	[NT]
Malathion	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	138	[NT]
Chlorpyriphos	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	96	[NT]
Parathion	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	87	[NT]
Bromophos-ethyl	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Ethion	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	96	[NT]
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	81	[NT]	[NT]	[NT]	[NT]	83	[NT]

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-7	[NT]
Date extracted	-			10/05/2022	[NT]	[NT]	[NT]	[NT]	10/05/2022	[NT]
Date analysed	-			10/05/2022	[NT]	[NT]	[NT]	[NT]	10/05/2022	[NT]
Aroclor 1016	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	82	[NT]
Aroclor 1260	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate TCMX	%		Org-021	81	[NT]	[NT]	[NT]	[NT]	83	[NT]

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-7	[NT]
Date prepared	-			10/05/2022	[NT]	[NT]	[NT]	[NT]	10/05/2022	[NT]
Date analysed	-			10/05/2022	[NT]	[NT]	[NT]	[NT]	10/05/2022	[NT]
Arsenic	mg/kg	4	Metals-020	<4	[NT]	[NT]	[NT]	[NT]	100	[NT]
Cadmium	mg/kg	0.4	Metals-020	<0.4	[NT]	[NT]	[NT]	[NT]	97	[NT]
Chromium	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	97	[NT]
Copper	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	98	[NT]
Lead	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	96	[NT]
Mercury	mg/kg	0.1	Metals-021	<0.1	[NT]	[NT]	[NT]	[NT]	128	[NT]
Nickel	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	97	[NT]
Zinc	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	95	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Document Revision Date: 30.06.2020

ESA-F-02 COC - Chain Of Custody (EXTERNAL: ENVIROLABS)

ADECONSULTINGGROUP
SOLUTIONS THROUGH INNOVATION

PROJECT:	AFJV_SOP_WAC1	LABORATORY REFERENCE NO. (Lab use ONLY):	294341
PROJECT NUMBER - INVOICE NUMBER	21.2041		
SAMPLES DELIVERED BY:	ADE Consulting Group 6/7 Millennium Ct, Silverwater NSW 2128	RECEIVED BY: ELS	SIGNATURE:
SAMPLERS:	MEGAN LYNCH	SAMPLES: CHILLED: ☒	PRESERVED: ☒ PRESERVATION METHOD: ICE CUSTODY SEAL INTACT: ☒
TURNAROUND:	24h: 48h: 72h: X 4 WORKING DAYS:	MINIMAL HEADSPACE : ☐	WITHIN HOLDING TIME: ☐
SAMPLING DATE:	23/04/2022	DATE: 29/4/22	TIME: 1100 TEMPERATURE UPON RECEIPT: 8 °C
AFTER TEST STORAGE:	ROOM TEMP: ☐ FRIDGE: X FREEZER: ☐ >>4 WEEKS: ☐ OTHER: ☐	LIMS LOT NO.	LIMS/EXCEL SIGNATURE: COMMENTS:
REPORT FORMAT:	HARD COPY: ☐ E-MAIL: X		
CONSULTANTS SIGNATURE:	CONSULTANT E-MAIL: steve.bowly@ade.group megan.lynch@ade.group		
PROJECT MANAGERS SIGNATURE:	PROJECT MANAGERS E-MAIL: thesan.naidoo@ade.group		

SAMPLE DATA				CONTAINER DATA		ANALYSES REQUIRED																NOTES
						pH/pH fox	BTEXN	8 Metal Suite	PAH	PCB	OCC/OPP	TCLP	VOC	PFAS	TRH	TOC	CEC	Ph/EC	Asbestos 65g				POTENTIAL HAZARDOUS CONTAMINANTS: ☐ ASBESTOS ☐ HYDROCARBONS ☐ LEAD/ARSENIC ☐ NO KNOWN CONTAMINATION ☐ OTHER:_____ LAB PLEASE *EMAIL COC RECEIPT: ☒
LIMS Sample ID (Lab Use)	Sample ID (ADE)	MATRIX	SAMPLE DATE	TYPE & PRESERVATIVE	NO.																	Sample Comments
1	BWN_BH105-SR	soil	23/04/2022		A1		x	x	x	x	x	x			x							
2	BWN_BH108-SR	soil	23/04/2022		A2		x	x	x	x	x	x			x							

ENVIROLAB

Envirolab Services
12 Ashley St
Ch...sswood NSW 2067
Ph. (02) 9910 6200

Job No: 294341

Date Received: 29/4/22
Time Received: 1100
Received By: KW
Temp: Cool/Ambient 8°C
Cooling: Ice/Icepack
Security: Intact/Broken/None

Comments:

Container Type and Preservative: P = Unpreserved Plastic; PN = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; PNA = Sodium Hydroxide Preserved Plastic; PC = HCl preserved Plastic; VC = Vial HCl Preserved; SP = Sulfuric Preserved Plastic; VB = Vial Sodium Bisulphate Preserved; VS = Vial Sulfuric Preserved; V = Unpreserved Vial; G = Amber Glass Unpreserved; SG = Sulfuric Preserved Amber Glass; F = Formaldehyde Preserved Glass; HS = HCl preserved Speciation bottle; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottle; ST = Sterile Bottle; J = Unpreserved Glass Jar; ASS = Plastic Bag for Acid Sulfate Soils; B = Unpreserved Bag.

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Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

CERTIFICATE OF ANALYSIS 294341

Client Details

Client	ADE CONSULTING GROUP PTY LTD
Attention	Stephen Bowly, Megan Lynch, Thesan Naidoo
Address	Unit 6, 7 Millenium Court, Silverwater, NSW, 2128

Sample Details

Your Reference	**21.2041**
Number of Samples	2 Soil
Date samples received	29/04/2022
Date completed instructions received	29/04/2022

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Report Details

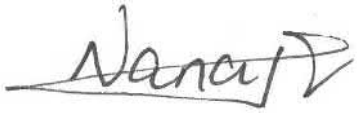
Date results requested by	04/05/2022
Date of Issue	04/05/2022

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Accredited for compliance with ISO/IEC 17025 - Testing. **Tests not covered by NATA are denoted with ***

Results Approved By
Dragana Tomas, Senior Chemist
Giovanni Agosti, Group Technical Manager
Josh Williams, Organics and LC Supervisor
Liam Timmins, Organic Instruments Team Leader
Steven Luong, Senior Chemist

Authorised By



Nancy Zhang, Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil			
Our Reference		294341-1	294341-2
Your Reference	UNITS	BWN_BH105_SR	BWN_BH108_SR
Date Sampled		23/04/2022	23/04/2022
Type of sample		Soil	Soil
Date extracted	-	02/05/2022	02/05/2022
Date analysed	-	02/05/2022	02/05/2022
TRH C_6 - C_9	mg/kg	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25
Benzene	mg/kg	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1
m+p-xylene	mg/kg	<2	<2
o-Xylene	mg/kg	<1	<1
Naphthalene	mg/kg	<1	<1
Total +ve Xylenes	mg/kg	<1	<1
Surrogate aaa-Trifluorotoluene	%	83	84

svTRH (C10-C40) in Soil			
Our Reference	UNITS	294341-1	294341-2
Your Reference		BWN_BH105_SR	BWN_BH108_SR
Date Sampled		23/04/2022	23/04/2022
Type of sample		Soil	Soil
Date extracted	-	02/05/2022	02/05/2022
Date analysed	-	03/05/2022	03/05/2022
TRH C_{10} - C_{14}	mg/kg	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50
Surrogate o-Terphenyl	%	85	93

PAHs in Soil			
Our Reference	UNITS	294341-1	294341-2
Your Reference		BWN_BH105_SR	BWN_BH108_SR
Date Sampled		23/04/2022	23/04/2022
Type of sample		Soil	Soil
Date extracted	-	02/05/2022	02/05/2022
Date analysed	-	02/05/2022	02/05/2022
Naphthalene	mg/kg	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	104	111

Organochlorine Pesticides in soil			
Our Reference	UNITS	294341-1	294341-2
Your Reference		BWN_BH105_SR	BWN_BH108_SR
Date Sampled		23/04/2022	23/04/2022
Type of sample		Soil	Soil
Date extracted	-	02/05/2022	02/05/2022
Date analysed	-	02/05/2022	02/05/2022
alpha-BHC	mg/kg	<0.1	<0.1
HCB	mg/kg	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1
Surrogate TCMX	%	95	104

Organophosphorus Pesticides in Soil			
Our Reference	UNITS	294341-1	294341-2
Your Reference		BWN_BH105_SR	BWN_BH108_SR
Date Sampled		23/04/2022	23/04/2022
Type of sample		Soil	Soil
Date extracted	-	02/05/2022	02/05/2022
Date analysed	-	02/05/2022	02/05/2022
Dichlorvos	mg/kg	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1
Chlorpyriphos-methyl	mg/kg	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1
Surrogate TCMX	%	95	104

PCBs in Soil			
Our Reference		294341-1	294341-2
Your Reference	UNITS	BWN_BH105_SR	BWN_BH108_SR
Date Sampled		23/04/2022	23/04/2022
Type of sample		Soil	Soil
Date extracted	-	02/05/2022	02/05/2022
Date analysed	-	02/05/2022	02/05/2022
Aroclor 1016	mg/kg	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1
Surrogate TCMX	%	95	104

Acid Extractable metals in soil			
Our Reference	UNITS	294341-1	294341-2
Your Reference		BWN_BH105_SR	BWN_BH108_SR
Date Sampled		23/04/2022	23/04/2022
Type of sample		Soil	Soil
Date prepared	-	03/05/2022	03/05/2022
Date analysed	-	03/05/2022	03/05/2022
Arsenic	mg/kg	<4	5
Cadmium	mg/kg	<0.4	<0.4
Chromium	mg/kg	2	9
Copper	mg/kg	4	6
Lead	mg/kg	8	13
Mercury	mg/kg	<0.1	<0.1
Nickel	mg/kg	<1	<1
Zinc	mg/kg	<1	4

Moisture			
Our Reference	UNITS	294341-1	294341-2
Your Reference		BWN_BH105_SR	BWN_BH108_SR
Date Sampled		23/04/2022	23/04/2022
Type of sample		Soil	Soil
Date prepared	-	02/05/2022	02/05/2022
Date analysed	-	03/05/2022	03/05/2022
Moisture	%	16	19

TCLP Preparation - Acid			
Our Reference		294341-1	294341-2
Your Reference	UNITS	BWN_BH105_SR	BWN_BH108_SR
Date Sampled		23/04/2022	23/04/2022
Type of sample		Soil	Soil
pH of soil for fluid# determ.	pH units	8.9	8.9
pH of soil TCLP (after HCl)	pH units	1.6	1.6
Extraction fluid used		1	1
pH of final Leachate	pH units	5.0	5.0

Method ID	Methodology Summary
Inorg-004	Toxicity Characteristic Leaching Procedure (TCLP) using AS 4439 and USEPA 1311. Please note that the mass used may be scaled down from default based on sample mass available. Samples are stored at 2-6oC before and after leachate preparation.
Inorg-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
Metals-020	Determination of various metals by ICP-AES.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).
Org-021	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.
Org-021	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD. Note, the Total +ve PCBs PQL is reflective of the lowest individual PQL and is therefore" Total +ve PCBs" is simply a sum of the positive individual PCBs.
Org-022	Determination of VOCs sampled onto coconut shell charcoal sorbent tubes, that can be desorbed using carbon disulphide, and analysed by GC-MS.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS.

Method ID	Methodology Summary
Org-022/025	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-MS/GC-MSMS. Note, the Total +ve reported DDD+DDE+DDT PQL is reflective of the lowest individual PQL and is therefore simply a sum of the positive individually report DDD+DDE+DDT.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS and/or GC-MS/MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013. For soil results:- 1. 'EQ PQL'values are assuming all contributing PAHs reported as <PQL are actually at the PQL. This is the most conservative approach and can give false positive TEQs given that PAHs that contribute to the TEQ calculation may not be present. 2. 'EQ zero'values are assuming all contributing PAHs reported as <PQL are zero. This is the least conservative approach and is more susceptible to false negative TEQs when PAHs that contribute to the TEQ calculation are present but below PQL. 3. 'EQ half PQL'values are assuming all contributing PAHs reported as <PQL are half the stipulated PQL. Hence a mid-point between the most and least conservative approaches above. Note, the Total +ve PAHs PQL is reflective of the lowest individual PQL and is therefore "Total +ve PAHs" is simply a sum of the positive individual PAHs.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			02/05/2022	[NT]	[NT]	[NT]	[NT]	02/05/2022	[NT]
Date analysed	-			02/05/2022	[NT]	[NT]	[NT]	[NT]	02/05/2022	[NT]
TRH C_6 - C_9	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	102	[NT]
TRH C_6 - C_{10}	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	102	[NT]
Benzene	mg/kg	0.2	Org-023	<0.2	[NT]	[NT]	[NT]	[NT]	112	[NT]
Toluene	mg/kg	0.5	Org-023	<0.5	[NT]	[NT]	[NT]	[NT]	79	[NT]
Ethylbenzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	110	[NT]
m+p-xylene	mg/kg	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	110	[NT]
o-Xylene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	110	[NT]
Naphthalene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	80	[NT]	[NT]	[NT]	[NT]	83	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			02/05/2022	[NT]	[NT]	[NT]	[NT]	02/05/2022	[NT]
Date analysed	-			03/05/2022	[NT]	[NT]	[NT]	[NT]	03/05/2022	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	113	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	112	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	133	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	113	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	112	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	133	[NT]
Surrogate o-Terphenyl	%		Org-020	91	[NT]	[NT]	[NT]	[NT]	93	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			02/05/2022	[NT]	[NT]	[NT]	[NT]	02/05/2022	[NT]
Date analysed	-			02/05/2022	[NT]	[NT]	[NT]	[NT]	02/05/2022	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	122	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	121	[NT]
Fluorene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	122	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	122	[NT]
Anthracene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	127	[NT]
Pyrene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	135	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	129	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	114	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	106	[NT]	[NT]	[NT]	[NT]	107	[NT]

QUALITY CONTROL: Organochlorine Pesticides in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			02/05/2022	[NT]	[NT]	[NT]	[NT]	02/05/2022	[NT]
Date analysed	-			02/05/2022	[NT]	[NT]	[NT]	[NT]	02/05/2022	[NT]
alpha-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	124	[NT]
HCB	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	121	[NT]
gamma-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	123	[NT]
delta-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	136	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	116	[NT]
gamma-Chlordane	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	127	[NT]
Dieldrin	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	135	[NT]
Endrin	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	117	[NT]
Endosulfan II	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	100	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	126	[NT]
Methoxychlor	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	103	[NT]	[NT]	[NT]	[NT]	104	[NT]

QUALITY CONTROL: Organophosphorus Pesticides in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			02/05/2022	[NT]	[NT]	[NT]	[NT]	02/05/2022	[NT]
Date analysed	-			02/05/2022	[NT]	[NT]	[NT]	[NT]	02/05/2022	[NT]
Dichlorvos	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	129	[NT]
Dimethoate	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Diazinon	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chlorpyriphos-methyl	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Ronnel	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	118	[NT]
Fenitrothion	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	115	[NT]
Malathion	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	134	[NT]
Chlorpyriphos	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	136	[NT]
Parathion	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	109	[NT]
Bromophos-ethyl	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Ethion	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	123	[NT]
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	103	[NT]	[NT]	[NT]	[NT]	104	[NT]

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			02/05/2022	[NT]	[NT]	[NT]	[NT]	02/05/2022	[NT]
Date analysed	-			02/05/2022	[NT]	[NT]	[NT]	[NT]	02/05/2022	[NT]
Aroclor 1016	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	135	[NT]
Aroclor 1260	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate TCMX	%		Org-021	103	[NT]	[NT]	[NT]	[NT]	104	[NT]

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			03/05/2022	[NT]	[NT]	[NT]	[NT]	03/05/2022	[NT]
Date analysed	-			03/05/2022	[NT]	[NT]	[NT]	[NT]	03/05/2022	[NT]
Arsenic	mg/kg	4	Metals-020	<4	[NT]	[NT]	[NT]	[NT]	102	[NT]
Cadmium	mg/kg	0.4	Metals-020	<0.4	[NT]	[NT]	[NT]	[NT]	102	[NT]
Chromium	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	100	[NT]
Copper	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	100	[NT]
Lead	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	98	[NT]
Mercury	mg/kg	0.1	Metals-021	<0.1	[NT]	[NT]	[NT]	[NT]	100	[NT]
Nickel	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	101	[NT]
Zinc	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	96	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Amended

Document Revision Date: 27.03.2020

ESA-F-02 COC - Chain Of Custody (SLS)

ADE CONSULTING GROUP

PROJECT:	AFJV -BWN
PROJECT NUMBER - INVOICE NUMBER	21.2041 BWN-WAC1
SAMPLES DELIVERED BY:	ADE Consulting Group 6/7 Millennium Ct, Silverwater NSW 2128
SAMPLERS:	Elisha Cassidy
TURNAROUND:	24h: ASAP: xx 48h: 72h: ☐ 5 WORKING DAYS:
SAMPLING DATE:	09.05.2022
AFTER TEST STORAGE:	ROOM TEMP: ☐ FRIDGE: X FREEZER: ☐ >>4 WEEKS: ☐ OTHER: ☐
REPORT FORMAT:	HARD COPY: ☐ E-MAIL: X
CONSULTANTS SIGNATURE:	CONSULTANT E-MAIL: elisha.cassidy@ade.group; mathew.lynch@ade.group
PROJECT MANAGERS SIGNATURE:	PROJECT MANAGERS E-MAIL: thesan.naidoo@ade.group

LABORATORY REFERENCE NO. (Lab use ONLY):	21.2041 WAC1
RECEIVED BY: KT	SIGNATURE:
SAMPLES: 18 CHILLED: ~~☐~~ PRESERVED: ~~☐~~	PRESERVATION METHOD: X CUSTODY SEAL INTACT: X
MINIMAL HEADSPACE : ~~☐~~	WITHIN HOLDING TIME: ☐
DATE: 16-5-22 TIME: 11:42	TEMPERATURE UPON RECEIPT: °C
LIMS LOT NO. 2202215	LIMS/EXCEL SIGNATURE:
	COMMENTS:

SAMPLE DATA					CONTAINER DATA		ANALYSES REQUIRED										OTHER				TCLP				NOTES
LIMS Sample ID (Lab Use)	TCLP LIMS Sample ID (Consultant Use)	Sample ID (ADE)	MATRIX	SAMPLE DATE	TYPE & PRESERVATIVE	NO.	6 Metal Suite	8 Metal Suite	BTEX	PAH	OCP/OPP	PCB	vTRH (C6-C10)	TRH (C10-C40)	pH/EC	pH/pH fox					TCLP Nickel	TCLP BaP	TCLP Pb	TCLP Metals	POTENTIAL HAZARDOUS CONTAMINANTS: ☐ ASBESTOS ☐ HYDROCARBONS ☐ LEAD/ARSENIC ☐ NO KNOWN CONTAMINATION ☐ OTHER:_____
2022015																									LAB PLEASE *EMAIL COC RECEIPT: ☐
921	2022013137	BWN_BH105-0.5-0.7	Soil	09.05.2022	G	1																	X		
922	2022013141	BWN_BH106-0.7	Soil	09.05.2022	G	2																	X		
923	2022014255	SES-BH1-0.0-0.2	Soil	09.05.2022	G	3															X		X		
924	2022014258	SES-BH1-BR2	Soil	09.05.2022	G	4															X		X		
925	2022014261	SES-BH2-1.0-1.2	Soil	09.05.2022	G	5																	X		
926	2022014265	SES-SEA3-0.0-0.2	Soil	09.05.2022	G	6																	X		
927	2022014266	SES-SEA3-0.3-0.5	Soil	09.05.2022	G	7																	X		
928	2022014267	BH116-DEL1W-0.0-0.2	Soil	09.05.2022	G	8																	X		
929	2022014269	BH116-DEL1S-0.0-0.2	Soil	09.05.2022	G	9																	X		
930	2022014271	BH116-DEL1E-0.0-0.2	Soil	09.05.2022	G	10																	X		
931	2022014272	BH116-DEL1E-0.3-0.5	Soil	09.05.2022	G	11																	X		
932	2022014273	BH116-DEL1N-0.0-0.2	Soil	09.05.2022	G	12																	X		
933	2022014261	SES-BH2-1.0-1.2	Soil	09.05.2022	G	13																X			
934	2022014266	SES-SEA3-0.3-0.5	Soil	09.05.2022	G	14																X			
935	2022014269	BH116-DEL1S-0.0-0.2	Soil	09.05.2022	G	15																X			
936	2022014271	BH116-DEL1E-0.0-0.2	Soil	09.05.2022	G	16																X			
937	2022014273	BH116-DEL1N-0.0-0.2	Soil	09.05.2022	G	17																X			
NEW→ 719	2022014404	SES-BH3-0.0-0.2	Soil	09.05.2022	G	18																	X		Outstanding Sample

Previously reported by SLS.

Tray 80 - (404)

Comments:

Container Type and Preservative: P = Unpreserved Plastic; PN = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; PNA = Sodium Hydroxide Preserved Plastic; PC = HCl preserved Plastic; VC = Vial HCl Preserved; SP = Sulfuric Preserved Plastic; VB = Vial Sodium Bisulphate Preserved; VS = Vial Sulfuric Preserved; V = Unpreserved Vial; G = Amber Glass Unpreserved; SG = Sulfuric Preserved Amber Glass; F = Formaldehyde Preserved Glass; HS = HCl preserved Speciation bottle; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottle; ST = Sterile Bottle; J = Unpreserved Glass Jar; ASS = Plastic Bag for Acid Sulfate Soils; B = Unpreserved Bag.

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Sydney Laboratory Services

A division of A. D. Envirotech Australia Pty Ltd
A.C.N. 093 452 950
Unit 4/10-11 Millennium Court,
Silverwater 2128
Ph: (02) 9648-6669

Accreditation No.14664
Accredited for compliance with ISO/IEC 17025 - Testing.

SAMPLE RECEIPT NOTIFICATION (SRN)

Contact:	Thesan Naidoo / Mathew Lynch / Elisha Cassidy
Project name:	21.2041.WAC1 + WAC8
Number of samples:	18
COC number:	21.2041.WAC1 + WAC8
Turn around time:	24hr
Date:	16.05.2022
Time received:	11:42 AM
SLS Reference:	2202215
Estimated Report Delivery Date:	12.05.2022

Sample information

☑	All samples have been received and logged into LIMS.
☑	No mistakes in the COC
☑	Evidence of chilling for samples
N/A	Samples were preserved
N/A	Custody seal intact
☑	Samples were delivered within holding time
☑	Samples to be tested for volatiles had zero headspace
☑	All samples were received in good condition (no broken jars, labelled correctly…).
☐	Samples have been subcontracted

Comments

This report contains:
Sample receipt non-conformities
Summary of samples and requested analysis
Requested report deliverables

Asbestos Samples are reported as per the State EPA guidelines

Contact details

If you have any questions with respect to these samples please contact:
sls@ade.group

Trianah Tumbridge

Sydney Laboratory Services

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SAMPLE RECEIPT NOTIFICATION (SRN)

Laboratory Sample ID	Client Sample ID	TCLP PAH B(a)P PQL<0.2 ug/L	TCLP PAH B(a)P PQL<5.0 ug/L	TCLP Metals	TCLP PFAS
2022014921	BWN_BH105-0.5-0.7			X	
2022014922	BWN_BH106-0.7			X	
2022014923	SES-BH1-0.0-0.2			X	
2022014924	SES-BH1-BR2			X	
2022014925	SES-BH2-1.0-1.2			X	
2022014926	SES-SEA3-0.0-0.2			X	
2022014927	SES-SEA3-0.3-0.5			X	
2022014928	DEL1W-0.0-0.2			X	
2022014929	DEL1S-0.0-0.2			X	
2022014930	DEL1E-0.0-0.2			X	
2022014931	DEL1E-0.3-0.5			X	
2022014932	DEL1N-0.0-0.2			X	
2022014933	SES-BH2-1.0-1.2		X		
2022014934	SES-SEA3-0.3-0.5		X		
2022014935	DEL1S-0.0-0.2		X		
2022014936	DEL1E-0.0-0.2		X		
2022014937	DEL1N-0.0-0.2		X		
2022015719	SES-BH3-0.0-0.2			X	

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Accreditation No.14664
Accredited for compliance with ISO/IEC 17025 - Testing.

This certificate of analysis contains General Comments and Analytical Results. Quality Control Report and Laboratory Quality Acceptance Criteria have been issued separately.

This report supersedes any previous report(s) with this reference. This document shall not be reproduced, except in full.

This report has been electronically signed by authorised signatories below.

Authorised By



Kaiyu Li

General Comments

Samples are analysed on as received basis. Sampling is not covered by NATA accreditation.

Where moisture determination has been performed, results are reported on dry weight basis.

Where the PQL of reported result differs from standard PQL, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Samples were analysed within holding time described by laboratory internal procedures if not stated otherwise. If samples delivered do not meet required analytical criteria, results will be marked with ^.

However surrogate standards are added to samples, results are not corrected for standards recoveries.

Analysis of VOC in water samples are performed on unfiltered waters (as received) spiked with surrogates and injection standards only.

SLS is responsible for all the information in the report, except that provided by the customer.

All sampling information included in the report has been provided by customer.

Information provided by the customer can affect the validity of the results.

Sydney Laboratory Services
A division of A. D. Envirotech Australia Pty Ltd
Unit 4/10-11 Millennium Court
Silverwater 2128
Ph: (02) 9648-6669

Certificate of Analysis

Contact:	Thesan Naidoo	**Date Reported:**	17/05/2022
Customer:	ADE Consulting Group	**No. of Samples:**	19
Address:	Unit 6 7 Millennium Court Silverwater NSW	**Date Received:**	11/05/2022
		Date of Analysis:	16/05/2022
Cust Ref:	21.2041 BWN WAC1		

Glossary:

*NATA accreditation does not cover the performance of this service
ND-not detected,
NT-not tested
INS-Insufficient material to perform the test
LCS-Laboratory Control Sample
RPD-Relative Percent Difference
N/A-Not Applicable
< less than
> greater than
PQL- Practical Quantitation Limit
^Analytical result might be compromised due to sample condition or holding time requirements
Reaction rate 1 = Slight
Reaction rate 2 = Moderate
Reaction rate 3 = High
Reaction rate 4 = Vigorous

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Silverwater 2128
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Certificate of Analysis

	Sample ID:	2022014921	2022014922	2022014923	2022014924	2022014925	2022014926	2022014927	2022014928	2022014929	2022014930	2022014931
	Sample Name	BWN_BH105-0.5-0.7	BWN_BH106-0.7	SES-BH1-0.0-0.2	SES-BH1-BR2	SES-BH2-1.0-1.2	SES-SEA3-0.0-0.2	SES-SEA3-0.3-0.5	BH116-DEL1W-0.0-0.2	BH116-DEL1S-0.0-0.2	BH116-DEL1E-0.0-0.2	BH116-DEL1E-0.3-0.5
Parameter	*Units*	*PQL*										
ESA-MP-01,ICP-01												
Lead	mg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel	mg/L	0.2	-	-	0.3	<0.2	-	-	-	-	-	-	-
ESA-P-21												
pH A	-		7.0	7.9	9.1	8.5	6.5	7.2	6.4	7.5	7.2	7.7	5.7
pH B	-		1.1	1.5	1.3	1.5	1.0	1.3	1.6	1.5	1.5	1.5	1.1
Extraction Fluid	-		1	1	1	1	1	1	1	1	1	1	1

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Certificate of Analysis

	Sample ID:	2022014932	2022014933	2022014934	2022014935	2022014936	2022014937	2022015282	2022015719
	Sample Name	BH116-DEL1N-0.0-0.2	SES-BH2-1.0-1.2	SES-SEA3-0.3-0.5	BH116-DEL1S-0.0-0.2	BH116-DEL1E-0.0-0.2	BH116-DEL1N-0.0-0.2	ADE-TP107-0.0-0.2	SES-BH3-0.0-0.2
Parameter	**Units**	**PQL**							
ESA-MP-01,ICP-01									
Lead	mg/L	0.5	<0.5	-	-	-	-	-	-	<0.5
Nickel	mg/L	0.2	-	-	-	-	-	-	<0.2	-
ESA-P ORG(02,04,12)									
Acenaphthene	mg/L	0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Acenaphthylene	mg/L	0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Anthracene	mg/L	0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Benzo[a]anthracene	mg/L	0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Benzo[a]pyrene	mg/L	0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Benzo[b]fluoranthene	mg/L	0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Benzo[g,h,i]perylene	mg/L	0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Benzo[k]fluoranthene	mg/L	0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Chrysene	mg/L	0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Dibenzo[a,h]anthracene	mg/L	0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Fluoranthene	mg/L	0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Fluorene	mg/L	0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Indeno(1,2,3-cd)pyrene	mg/L	0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Naphthalene	mg/L	0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Phenanthrene	mg/L	0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Pyrene	mg/L	0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
p-Terphenyl-d14	%		-	97	98	90	88	84	-	-
ESA-P-21									
pH A	-		7.7	6.5	6.4	7.2	7.7	7.7	9.3	8.8
pH B	-		1.4	1.0	1.6	1.5	1.5	1.4	1.6	1.7
Extraction Fluid	-		1	1	1	1	1	1	1	1

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A.C.N. 093 452 950
Unit 4/10-11 Millennium Court,
Silverwater 2128
Ph: (02) 9648-6669

Accreditation No.14664
Accredited for compliance with ISO/IEC 17025 - Testing.

This Quality Control Report contains results of QAQC samples analysis and the Laboratory Acceptance Criteria.

This report supersedes any previous report(s) with this reference. This document shall not be reproduced, except in full.

This report has been electronically signed by authorised signatories below.

Authorised By



Kaiyu Li

General Comments

Duplicate samples and matrix spike may not be prepared on smaller jobs, however are analysed at frequency. QAQC samples shown within the report as e.g. Batch Blank, Batch Matrix Spike were performed on samples not reported on that Certificate of Analysis.

Blank This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in the same manner as for samples.
Duplicate This is the interlaboratory split of a random sample from the processed batch
Matrix Spike A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample): This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class.
Surr. (Surrogate Spike) Surrogates are known additions to each sample, blank and matrix spike or LCS in a batch. Surrogates are chosen as a compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Blank shall be < PQL
Matrix Spikes and LCS: Generally 70-130% for inorganics/metals/PFAS, 60-140% for organics is acceptable. Matrix heterogeneity may result in matrix spike analyses falling outside these limits
RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:
Results <10 times the PQL : No Limit
Results between 10-20 times the PQL : RPD must lie between 0-50%
Results >20 times the PQL : RPD must lie between 0-30%
Surrogate Recoveries : Recoveries must lie between 50-150%

SLS is responsible for all the information in the report, except that provided by the customer.

All sampling information included in the report has been provided by customer.

Information provided by the customer can affect the validity of the results.

Sydney Laboratory Services
A division of A. D. Envirotech Australia Pty Ltd
Unit 4/10-11 Millennium Court
Silverwater 2128
Ph: (02) 9648-6669

Quality Control Report

Contact:	Thesan Naidoo	**Date Reported:**	17/05/2022
Customer:	ADE Consulting Group	**No. of Samples:**	10
Address:	Unit 6 7 Millennium Court Silverwater NSW	**Date Received:**	11/05/2022
		Date of Analysis:	16/05/2022

Cust Ref: 21.2041 BWN WAC1

Glossary:

*NATA accreditation does not cover the performance of this service
ND-not detected,
NT-not tested
INS-Insufficient material to perform the test
LCS-Laboratory Control Sample
RPD-Relative Percent Difference
N/A-Not Applicable
< less than
> greater than
PQL- Practical Quantitation Limit
^Analytical result might be compromised due to sample condition or holding time requirements
Reaction rate 1 = Slight
Reaction rate 2 = Moderate
Reaction rate 3 = High
Reaction rate 4 = Vigorous

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Quality Control Report

		Sample ID:	D202201487601	
		Sample Name	220510 MSP TR06	
Parameter	*Units*	*PQL*		
ESA-P-ORG(02,04,12)				
Acenaphthene			Pass	
Acenaphthylene			Pass	
Anthracene			Pass	
Benzo[a]anthracene			Pass	
Benzo[a]pyrene			Pass	
Benzo[b]fluoranthene			Pass	
Benzo[g,h,i]perylene			Pass	
Benzo[k]fluoranthene			Pass	
Chrysene			Pass	
Dibenzo[a,h]anthracene			Pass	
Fluoranthene			Pass	
Fluorene			Pass	
Indeno(1,2,3-cd)pyrene			Pass	
Naphthalene			Pass	
Phenanthrene			Pass	
Pyrene			Pass	
p-Terphenyl-d14	%		64	

		Sample ID:	D202201492201	D202201493101
		Sample Name	BWN_BH106-0.7	DEL1E-0.3-0.5
Parameter	*Units*	*PQL*		
ESA-MP-01,ICP-01				
Lead			Pass	Pass
Nickel			Pass	Pass

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Sample ID:	**D202201493401**
Sample Name	**SES-SEA3-0.3-0.5**

Parameter	*Units*	*PQL*	
ESA-P-ORG(02,04,12)			
Acenaphthene			Pass
Acenaphthylene			Pass
Anthracene			Pass
Benzo[a]anthracene			Pass
Benzo[a]pyrene			Pass
Benzo[b]fluoranthene			Pass
Benzo[g,h,i]perylene			Pass
Benzo[k]fluoranthene			Pass
Chrysene			Pass
Dibenzo[a,h]anthracene			Pass
Fluoranthene			Pass
Fluorene			Pass
Indeno(1,2,3-cd)pyrene			Pass
Naphthalene			Pass
Phenanthrene			Pass
Pyrene			Pass
p-Terphenyl-d14	%		91

Sample ID:	**Q2022003498**
Sample Name	

Parameter	*Units*	*PQL*	PAH Blank - TCLP
ESA-P-ORG(02,04,12)			
Acenaphthene	mg/L	0.005	<0.005
Acenaphthylene	mg/L	0.005	<0.005
Anthracene	mg/L	0.005	<0.005
Benzo[a]anthracene	mg/L	0.005	<0.005
Benzo[a]pyrene	mg/L	0.005	<0.005
Benzo[b]fluoranthene	mg/L	0.005	<0.005
Benzo[g,h,i]perylene	mg/L	0.005	<0.005
Benzo[k]fluoranthene	mg/L	0.005	<0.005

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Chrysene	mg/L	0.005	<0.005
Dibenzo[a,h]anthracene	mg/L	0.005	<0.005
Fluoranthene	mg/L	0.005	<0.005
Fluorene	mg/L	0.005	<0.005
Indeno(1,2,3-cd)pyrene	mg/L	0.005	<0.005
Naphthalene	mg/L	0.005	<0.005
Phenanthrene	mg/L	0.005	<0.005
Pyrene	mg/L	0.005	<0.005

Sample ID: **Q2022003499**

Sample Name

Parameter	*Units*	*PQL*	PAH Blank Spike-TCLP
ESA-P-ORG(02,04,12)			
Acenaphthene	%		93
Anthracene	%		94
Fluoranthene	%		87
Naphthalene	%		89
Phenanthrene	%		88
Pyrene	%		89
p-Terphenyl-d14	%		99

Sample ID: **Q2022003502**

Sample Name

Parameter	*Units*	*PQL*	Metals Blank - TCLP
ESA-MP-01,ICP-01			
Lead	mg/L	0.5	<0.5
Nickel	mg/L	0.2	<0.2

Sample ID: **Q2022003503**

Sample Name

Parameter	*Units*	*PQL*	Metals Blank Sp-TCLP
ESA-MP-01,ICP-01			
Lead	%		105
Nickel	%		103

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		Sample ID:	**S202201492101**
		Sample Name	**BWN_BH105-0.5-0.7**
Parameter	***Units***	***PQL***	
ESA-MP-01,ICP-01			
Lead	%		107
Nickel	%		101

		Sample ID:	**S202201493301**
		Sample Name	**SES-BH2-1.0-1.2**
Parameter	***Units***	***PQL***	
ESA-P-ORG(02,04,12)			
Acenaphthene	%		90
Anthracene	%		97
Fluoranthene	%		78
Naphthalene	%		88
Phenanthrene	%		95
Pyrene	%		86
p-Terphenyl-d14 (Surr.)	%		99

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Silverwater 2128
Ph: (02) 9648-6669

SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : **ES2203558**

Client	: **ENVIRONMENTAL RESOURCES MANAGEMENT (ERM)**	Laboratory	: Environmental Division Sydney
Contact	: MS JESSICA LAWRENCE	Contact	: Customer Services ES
Address	: LEVEL 15 309 KENT STREET SYDNEY NSW AUSTRALIA 2000	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
E-mail	: jessica.lawrence@erm.com	E-mail	: ALSEnviro.Sydney@ALSGlobal.com
Telephone	: +61 02 8584 8888	Telephone	: +61-2-8784 8555
Facsimile	: +61 02 8584 8800	Facsimile	: +61-2-8784 8500
Project	: 0577577 - Burwood	Page	: 1 of 3
Order number	: ----	Quote number	: EP2020ENVRES0018 (EN/114)
C-O-C number	: ----	QC Level	: NEPM 2013 B3 & ALS QC Standard
Site	: ----		
Sampler	: TRISTAN RODRIGUES		

Dates

Date Samples Received	: 02-Feb-2022 15:29	Issue Date	: 02-Feb-2022
Client Requested Due Date	: 09-Feb-2022	Scheduled Reporting Date	: **09-Feb-2022**

Delivery Details

Mode of Delivery	: Samples On Hand	Security Seal	: Not Available
No. of coolers/boxes	: ----	Temperature	: 4.1'C
Receipt Detail	:	No. of samples received / analysed	: 23 / 23

General Comments

- This report contains the following information:
  - Sample Container(s)/Preservation Non-Compliances
  - Summary of Sample(s) and Requested Analysis
  - Proactive Holding Time Report
  - Requested Deliverables
- **Rebatch of ES2146990, ES2146476, ES2146625, ES2201633.**
- **Please refer to the Proactive Holding Time Report table below which summarises breaches of recommended holding times that have occurred prior to samples/instructions being received at the laboratory. The laboratory will process these samples unless instructions are received from you indicating you do not wish to proceed. The absence of this summary table indicates that all samples have been received within the recommended holding times for the analysis requested.**
- Please direct any queries you have regarding this work order to the above ALS laboratory contact.
- Analytical work for this work order will be conducted at ALS Sydney.
- Sample Disposal - Aqueous (3 weeks), Solid (2 months ± 1 week) from receipt of samples.
- Please be aware that APHA/NEPM recommends water and soil samples be chilled to less than or equal to 6°C for chemical analysis, and less than or equal to 10°C but unfrozen for Microbiological analysis. Where samples are received above this temperature, it should be taken into consideration when interpreting results. Refer to ALS EnviroMail 85 for ALS recommendations of the best practice for chilling samples after sampling and for maintaining a cool temperature during transit.

Sample Container(s)/Preservation Non-Compliances

All comparisons are made against pretreatment/preservation AS, APHA, USEPA standards.

- **No sample container / preservation non-compliance exists.**

Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package.
If no sampling time is provided, the sampling time will default 00:00 on the date of sampling. If no sampling date is provided, the sampling date will be assumed by the laboratory and displayed in brackets without a time component

Matrix: **SOIL**

Laboratory sample ID	Sampling date / time	Sample ID	SOIL - EG005C Leachable Metals by ICPAES	SOIL - EN33a-G TCLP Leachate - Glass Leaching Vessel	SOIL - EP075 SIM PAH only SIM - PAH only
ES2203558-001	21-Dec-2021 00:00	BUR_BH101_0.1		✓	✓
ES2203558-002	16-Dec-2021 00:00	BUR_BH103_0.1	✓	✓	✓
ES2203558-003	16-Dec-2021 00:00	BUR_BH104_0.2		✓	✓
ES2203558-004	17-Dec-2021 00:00	BUR_BH106_0.2	✓	✓	✓
ES2203558-005	17-Dec-2021 00:00	BUR_BH107_5.0	✓	✓	
ES2203558-006	17-Dec-2021 00:00	BUR_BH108_0.2	✓	✓	✓
ES2203558-007	20-Dec-2021 00:00	BUR_BH109_5.0	✓	✓	
ES2203558-008	20-Dec-2021 00:00	BUR_BH111_0.2	✓	✓	✓
ES2203558-009	20-Dec-2021 00:00	BUR_BH110_5.0	✓	✓	
ES2203558-010	20-Dec-2021 00:00	BUR_BH111_0.5	✓	✓	
ES2203558-011	21-Dec-2021 00:00	BUR_BH112_0.2	✓	✓	
ES2203558-012	20-Dec-2021 00:00	BUR_BH114_5.0	✓	✓	
ES2203558-013	21-Dec-2021 00:00	BUR_BH115_0.2	✓	✓	✓
ES2203558-014	21-Dec-2021 00:00	BUR_BH115_0.5	✓	✓	✓
ES2203558-015	21-Dec-2021 00:00	BUR_BH115_1.0	✓	✓	
ES2203558-016	21-Dec-2021 00:00	BUR_BH116_0.2	✓	✓	✓
ES2203558-017	21-Dec-2021 00:00	BUR_BH117_0.2	✓	✓	✓
ES2203558-018	18-Dec-2021 00:00	BUR_BH123_0.3	✓	✓	✓
ES2203558-019	21-Dec-2021 00:00	BUR_BH125_0.2	✓	✓	✓
ES2203558-020	16-Dec-2021 00:00	D01_20211216	✓	✓	✓
ES2203558-021	17-Dec-2021 00:00	D04_20211217	✓	✓	✓
ES2203558-022	21-Dec-2021 00:00	D07_20211221	✓	✓	✓
ES2203558-023	21-Dec-2021 00:00	D08_20211221	✓	✓	✓

Proactive Holding Time Report

The following table summarises breaches of recommended holding times that have occurred prior to samples/instructions being received at the laboratory.

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Client Sample ID(s)	Container	Due for extraction	Due for analysis	Samples Received Date	Samples Received Evaluation	Instructions Received Date	Instructions Received Evaluation
EN33a-G: TCLP for Non & Semivolatile Analytes - Glass Leaching Vessel							
BUR_BH101_0.1	Non-Volatile Leach: 14 day HT(e	04-Jan-2022	----	02-Feb-2022	×	----	----
BUR_BH103_0.1	Non-Volatile Leach: 14 day HT(e	30-Dec-2021	----	02-Feb-2022	×	----	----
BUR_BH104_0.2	Non-Volatile Leach: 14 day HT(e	30-Dec-2021	----	02-Feb-2022	×	----	----
BUR_BH106_0.2	Non-Volatile Leach: 14 day HT(e	31-Dec-2021	----	02-Feb-2022	×	----	----
BUR_BH108_0.2	Non-Volatile Leach: 14 day HT(e	31-Dec-2021	----	02-Feb-2022	×	----	----
BUR_BH111_0.2	Non-Volatile Leach: 14 day HT(e	03-Jan-2022	----	02-Feb-2022	×	----	----

BUR_BH115_0.2	Non-Volatile Leach: 14 day HT(ε	04-Jan-2022	----	02-Feb-2022	✘	----	----
BUR_BH115_0.5	Non-Volatile Leach: 14 day HT(ε	04-Jan-2022	----	02-Feb-2022	✘	----	----
BUR_BH116_0.2	Non-Volatile Leach: 14 day HT(ε	04-Jan-2022	----	02-Feb-2022	✘	----	----
BUR_BH117_0.2	Non-Volatile Leach: 14 day HT(ε	04-Jan-2022	----	02-Feb-2022	✘	----	----
BUR_BH123_0.3	Non-Volatile Leach: 14 day HT(ε	01-Jan-2022	----	02-Feb-2022	✘	----	----
BUR_BH125_0.2	Non-Volatile Leach: 14 day HT(ε	04-Jan-2022	----	02-Feb-2022	✘	----	----
D01_20211216	Non-Volatile Leach: 14 day HT(ε	30-Dec-2021	----	02-Feb-2022	✘	----	----
D04_20211217	Non-Volatile Leach: 14 day HT(ε	31-Dec-2021	----	02-Feb-2022	✘	----	----
D07_20211221	Non-Volatile Leach: 14 day HT(ε	04-Jan-2022	----	02-Feb-2022	✘	----	----
D08_20211221	Non-Volatile Leach: 14 day HT(ε	04-Jan-2022	----	02-Feb-2022	✘	----	----

Requested Deliverables

ACCOUNTS PAYABLE

- A4 - AU Tax Invoice (INV) — Email — au.accounts@erm.com

JESSICA LAWRENCE

- *AU Certificate of Analysis - NATA (COA) — Email — jessica.lawrence@erm.com
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI) — Email — jessica.lawrence@erm.com
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC) — Email — jessica.lawrence@erm.com
- A4 - AU Sample Receipt Notification - Environmental HT (SRN) — Email — jessica.lawrence@erm.com
- A4 - AU Tax Invoice (INV) — Email — jessica.lawrence@erm.com
- Chain of Custody (CoC) (COC) — Email — jessica.lawrence@erm.com
- EDI Format - ENMRG (ENMRG) — Email — jessica.lawrence@erm.com
- EDI Format - EQUIS V5 ERM (EQUIS_V5_ERM) — Email — jessica.lawrence@erm.com
- EDI Format - ESDAT (ESDAT) — Email — jessica.lawrence@erm.com

TRISTAN RODRIGUES

- *AU Certificate of Analysis - NATA (COA) — Email — Tristan.rodrigues@erm.com
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI) — Email — Tristan.rodrigues@erm.com
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC) — Email — Tristan.rodrigues@erm.com
- A4 - AU Sample Receipt Notification - Environmental HT (SRN) — Email — Tristan.rodrigues@erm.com
- Chain of Custody (CoC) (COC) — Email — Tristan.rodrigues@erm.com
- EDI Format - ENMRG (ENMRG) — Email — Tristan.rodrigues@erm.com
- EDI Format - EQUIS V5 ERM (EQUIS_V5_ERM) — Email — Tristan.rodrigues@erm.com
- EDI Format - ESDAT (ESDAT) — Email — Tristan.rodrigues@erm.com

From: Sarah Mathew
Sent: Monday, 31 January 2022 4:29 PM
To: rebatches.sydney
Subject: FW: [EXTERNAL] - 0577577- Burwood TCLP Analysis

Follow Up Flag: Follow up
Flag Status: Flagged

Vishal
31/01/2022
1529

Hi Team,

Can you please organise the below rebatches.
ES2146990 – tray S448-453
ES2146476 – tray S339-342
ES2146625 – tray S389 - 391
ES2201633 – tray s659

Kind Regards,

Sarah Mathew
Client Services Officer, Environmental
Sydney

T +61 2 8784 8555 F +61 2 8784 8500
D +61 2 8784 8534
sarah.mathew@alsglobal.com
277-289 Woodpark Road
Smithfield NSW 2164 AUSTRALIA

Environmental Division
Sydney
Work Order Reference
ES2203558

Telephone : +61-2-8784 8555

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EnviroMail™ 131 - Important Changes to the Australian Standard Leaching Procedures AS4439.2 & AS4439.3

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From: Tristan Rodrigues [mailto:Tristan.Rodrigues@erm.com]
Sent: Monday, 31 January 2022 3:29 PM
To: ALSEnviro Sydney <ALSEnviro.Sydney@ALSGlobal.com>; John Nguyen <JohnNguyen@eurofins.com>; #AU04_Enviro_Sample_NSW <EnviroSampleNSW@eurofins.com>; Helen Simpson <helen.simpson@alsglobal.com>
Cc: Nicholas Grbich <Nicholas.Grbich@erm.com>; Jessica Lawrence <Jessica.Lawrence@erm.com>; Madushani Bolonghe <Madushani.Bolonghe@erm.com>
Subject: [EXTERNAL] - 0577577- Burwood TCLP Analysis

CAUTION: This email originated from outside of ALS. Do not click links or open attachments unless you recognize the sender and are sure content is relevant to you.

Hey guys,

For the following job (0577577)- Burwood could we please get TCLP analysis done on the following samples. Standard TAT
The samples that were forwarded to Eurofins are highlighted below.

ALS

	Sample ID	Sample Date		Lab report number	TCLP Analysis Required	
1	BUR_BH101_0.1	21/12/2021	40	ES2146990	BaP	
2	BUR_BH103_0.1	16/12/2021	12	ES2146476	BaP	Lead
3	BUR_BH104_0.2	16/12/2021	19	ES2146476	BaP	
4	BUR_BH106_0.2	17/12/2021	12	ES2146625	BaP	Lead
5	BUR_BH107_5.0	17/12/2021	23	ES2146625		Nickel
6	BUR_BH108_0.2	17/12/2021	4	ES2146625	BaP	Lead
7	BUR_BH109_0.5	20/12/2021	2	ES2146990		Lead
8	BUR_BH110_0.2	20/12/2021	10	ES2146990	BaP	Lead
9	BUR_BH110_5.0	20/12/2021	13	ES2146990		Nickel
10	BUR_BH111_0.5	20/12/2021	6	ES2146990		Lead
11	BUR_BH112_0.2	21/12/2021	43	ES2146990		Nickel
12	BUR_BH114_5.0	20/12/2021	21	ES2146990		Nickel

BUR_BH115_0.2 13	21/12/2021 27	ES2146990	BaP	Lead & Nickel
BUR_BH115_0.5 14	21/12/2021 28	ES2146990	BaP	Lead
BUR_BH115_1.0 15	21/12/2021 29	ES2146990		Lead
BUR_BH116_0.2 16	21/12/2021 47	ES2146990	BaP	Lead
BUR_BH117_0.2 17	21/12/2021 33	ES2146990	BaP	Lead
BUR_BH123_0.3 18	18/01/2022 ? *	ES2201633	BaP	Lead
BUR_BH125_0.2 19	21/12/2021 21	ES2146990	BaP	Lead
D01_20211216 20	16/12/2021 31	ES2146476	BaP	Lead
D04_20211217 21	17/12/2021 05	ES2146625	BaP	Lead
D07_20211221 22	21/12/2021 48	ES2146990	BaP	Lead
D08_20211221 23	21/12/2021 36	ES2146990	BaP	Lead & Nickel

S821

Eurofins

Sample ID	Sample Date	Lab report number	TCLP Analysis Required	
T01_20211216	16/12/2021	852763	BaP	Lead
T05-20211220	20/12/2021	853323	BaP	Lead
T07-20211221	21/12/2021	853323		Lead & Nickel
TO4-20211217	17/12/2021	853149		Lead

Kind Regards

Tristan Rodrigues
Environmental Consultant

ERM
Unit 11, 277 Lane Cove Road | Macquarie Park | NSW | 2113
T +61 2 8586 8750 **M** +61417187687
E Tristan.Rodrigues@erm.com | **W** www.erm.com

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ALS Environmental

CERTIFICATE OF ANALYSIS

Work Order	: **ES2203558**	Page	: 1 of 13
Client	: **ENVIRONMENTAL RESOURCES MANAGEMENT (ERM)**	Laboratory	: Environmental Division Sydney
Contact	: MS JESSICA LAWRENCE	Contact	: Customer Services ES
Address	: LEVEL 15 309 KENT STREET SYDNEY NSW AUSTRALIA 2000	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: +61 02 8584 8888	Telephone	: +61-2-8784 8555
Project	: 0577577 - Burwood	Date Samples Received	: 02-Feb-2022 15:29
Order number	: ----	Date Analysis Commenced	: 04-Feb-2022
C-O-C number	: ----	Issue Date	: 09-Feb-2022 18:57
Sampler	: TRISTAN RODRIGUES		
Site	: ----		
Quote number	: EN/114		
No. of samples received	: 23		
No. of samples analysed	: 23		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Edwandy Fadjar	Organic Coordinator	Sydney Organics, Smithfield, NSW
Wisam Marassa	Inorganics Coordinator	Sydney Inorganics, Smithfield, NSW

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- EP075 (SIM): Where reported, Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) per the NEPM (2013) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a.h)anthracene (1.0), Benzo(g.h.i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero.
- EP075(SIM): Where reported, Total Cresol is the sum of the reported concentrations of 2-Methylphenol and 3- & 4-Methylphenol at or above the LOR.

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				BUR_BH101_0.1	BUR_BH103_0.1	BUR_BH104_0.2	BUR_BH106_0.2	BUR_BH107_5.0
				21-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
				ES2203558-001	ES2203558-002	ES2203558-003	ES2203558-004	ES2203558-005
				Result	Result	Result	Result	Result
EN33: TCLP Leach - Inorganics/Non-Volatile Organics (Glass Vessel)								
Initial pH	----	0.1	pH Unit	**9.2**	**6.9**	**7.8**	**9.2**	**8.0**
After HCl pH	----	0.1	pH Unit	**1.5**	**1.4**	**1.4**	**1.4**	**1.4**
Extraction Fluid Number	----	1	-	**1**	**1**	**1**	**1**	**1**
Final pH	----	0.1	pH Unit	**5.2**	**4.9**	**5.0**	**5.0**	**4.9**

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				BUR_BH108_0.2	BUR_BH109_0.5	BUR_BH110_0.2	BUR_BH110_5.0	BUR_BH111_0.5
				17-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
				ES2203558-006	ES2203558-007	ES2203558-008	ES2203558-009	ES2203558-010
				Result	Result	Result	Result	Result
EN33: TCLP Leach - Inorganics/Non-Volatile Organics (Glass Vessel)								
Initial pH	----	0.1	pH Unit	**7.3**	**7.3**	**9.5**	**8.6**	**7.8**
After HCl pH	----	0.1	pH Unit	**1.5**	**1.5**	**3.7**	**1.5**	**1.5**
Extraction Fluid Number	----	1	-	**1**	**1**	**1**	**1**	**1**
Final pH	----	0.1	pH Unit	**5.0**	**5.0**	**6.3**	**5.0**	**5.1**

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				BUR_BH112_0.2	BUR_BH114_5.0	BUR_BH115_0.2	BUR_BH115_0.5	BUR_BH115_1.0
				21-Dec-2021 00:00	20-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
				ES2203558-011	ES2203558-012	ES2203558-013	ES2203558-014	ES2203558-015
				Result	Result	Result	Result	Result
EN33: TCLP Leach - Inorganics/Non-Volatile Organics (Glass Vessel)								
Initial pH	----	0.1	pH Unit	**9.4**	**8.6**	**9.4**	**8.1**	**5.4**
After HCl pH	----	0.1	pH Unit	**1.5**	**1.4**	**1.6**	**1.5**	**1.4**
Extraction Fluid Number	----	1	-	**1**	**1**	**1**	**1**	**1**
Final pH	----	0.1	pH Unit	**5.5**	**5.0**	**5.6**	**5.1**	**4.9**

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				BUR_BH116_0.2	BUR_BH117_0.2	BUR_BH123_0.3	BUR_BH125_0.2	D01_20211216
				21-Dec-2021 00:00	21-Dec-2021 00:00	18-Dec-2021 00:00	21-Dec-2021 00:00	16-Dec-2021 00:00
				ES2203558-016	ES2203558-017	ES2203558-018	ES2203558-019	ES2203558-020
				Result	Result	Result	Result	Result
EN33: TCLP Leach - Inorganics/Non-Volatile Organics (Glass Vessel)								
Initial pH	----	0.1	pH Unit	**7.7**	**8.3**	**7.1**	**8.8**	**7.0**
After HCl pH	----	0.1	pH Unit	**1.5**	**1.6**	**1.4**	**1.8**	**1.5**
Extraction Fluid Number	----	1	-	**1**	**1**	**1**	**1**	**1**
Final pH	----	0.1	pH Unit	**5.1**	**5.2**	**4.9**	**5.3**	**4.9**

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				D04_20211217	D07_20211221	D08_20211221	----	----
				17-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	----	----
				ES2203558-021	ES2203558-022	ES2203558-023	--------	--------
				Result	Result	Result	----	----
EN33: TCLP Leach - Inorganics/Non-Volatile Organics (Glass Vessel)								
Initial pH	----	0.1	pH Unit	**7.0**	**8.0**	**8.4**	**----**	**----**
After HCl pH	----	0.1	pH Unit	**1.7**	**1.7**	**1.7**	**----**	**----**
Extraction Fluid Number	----	1	-	**1**	**1**	**1**	**----**	**----**
Final pH	----	0.1	pH Unit	**5.0**	**5.1**	**5.3**	**----**	**----**

Analytical Results

Sub-Matrix: TCLP LEACHATE (Matrix: WATER)				BUR_BH101_0.1	BUR_BH103_0.1	BUR_BH104_0.2	BUR_BH106_0.2	BUR_BH107_5.0
				21-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
				ES2203558-001	ES2203558-002	ES2203558-003	ES2203558-004	ES2203558-005
				Result	Result	Result	Result	Result
EG005(ED093)C: Leachable Metals by ICPAES								
Lead	7439-92-1	0.1	mg/L	----	<0.1	----	<0.1	----
Nickel	7440-02-0	0.1	mg/L	----	----	----	----	<0.1
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Benzo(a)pyrene	50-32-8	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	----
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	1.0	%	**20.6**	**20.5**	**21.7**	**21.9**	----
2-Chlorophenol-D4	93951-73-6	1.0	%	**46.5**	**47.1**	**46.9**	**48.6**	----
2.4.6-Tribromophenol	118-79-6	1.0	%	**70.8**	**73.8**	**68.2**	**72.2**	----
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	1.0	%	**47.7**	**51.8**	**57.5**	**62.7**	----
Anthracene-d10	1719-06-8	1.0	%	**64.9**	**64.7**	**68.0**	**69.2**	----
4-Terphenyl-d14	1718-51-0	1.0	%	**65.8**	**65.2**	**69.1**	**69.4**	----

Analytical Results

Sub-Matrix: TCLP LEACHATE (Matrix: WATER)				BUR_BH108_0.2	BUR_BH109_0.5	BUR_BH110_0.2	BUR_BH110_5.0	BUR_BH111_0.5
				17-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
				ES2203558-006	ES2203558-007	ES2203558-008	ES2203558-009	ES2203558-010
				Result	Result	Result	Result	Result
EG005(ED093)C: Leachable Metals by ICPAES								
Lead	7439-92-1	0.1	mg/L	<0.1	<0.1	<0.1	----	<0.1
Nickel	7440-02-0	0.1	mg/L	----	----	----	**0.1**	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Benzo(a)pyrene	50-32-8	0.5	µg/L	<0.5	----	<0.5	----	----
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	1.0	%	**20.2**	----	**21.9**	----	----
2-Chlorophenol-D4	93951-73-6	1.0	%	**44.4**	----	**47.6**	----	----
2.4.6-Tribromophenol	118-79-6	1.0	%	**70.3**	----	**64.6**	----	----
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	1.0	%	**56.8**	----	**61.3**	----	----
Anthracene-d10	1719-06-8	1.0	%	**68.0**	----	**68.0**	----	----
4-Terphenyl-d14	1718-51-0	1.0	%	**79.3**	----	**68.8**	----	----

Analytical Results

Sub-Matrix: TCLP LEACHATE (Matrix: WATER)				BUR_BH112_0.2	BUR_BH114_5.0	BUR_BH115_0.2	BUR_BH115_0.5	BUR_BH115_1.0
				21-Dec-2021 00:00	20-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
				ES2203558-011	ES2203558-012	ES2203558-013	ES2203558-014	ES2203558-015
				Result	Result	Result	Result	Result
EG005(ED093)C: Leachable Metals by ICPAES								
Lead	7439-92-1	0.1	mg/L	----	----	**0.3**	**28.7**	**8.5**
Nickel	7440-02-0	0.1	mg/L	<0.1	**0.2**	<0.1	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Benzo(a)pyrene	50-32-8	0.5	µg/L	----	----	<0.5	<0.5	----
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	1.0	%	----	----	**22.2**	**23.8**	----
2-Chlorophenol-D4	93951-73-6	1.0	%	----	----	**49.7**	**50.5**	----
2.4.6-Tribromophenol	118-79-6	1.0	%	----	----	**95.9**	**78.0**	----
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	1.0	%	----	----	**59.6**	**65.6**	----
Anthracene-d10	1719-06-8	1.0	%	----	----	**72.6**	**73.4**	----
4-Terphenyl-d14	1718-51-0	1.0	%	----	----	**75.1**	**73.6**	----

Analytical Results

Sub-Matrix: TCLP LEACHATE (Matrix: WATER)				BUR_BH116_0.2	BUR_BH117_0.2	BUR_BH123_0.3	BUR_BH125_0.2	D01_20211216
				21-Dec-2021 00:00	21-Dec-2021 00:00	18-Dec-2021 00:00	21-Dec-2021 00:00	16-Dec-2021 00:00
				ES2203558-016	ES2203558-017	ES2203558-018	ES2203558-019	ES2203558-020
				Result	Result	Result	Result	Result
EG005(ED093)C: Leachable Metals by ICPAES								
Lead	7439-92-1	0.1	mg/L	**0.1**	**0.2**	<0.1	<0.1	<0.1
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Benzo(a)pyrene	50-32-8	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	1.0	%	**23.0**	**22.7**	**27.8**	**26.7**	**28.0**
2-Chlorophenol-D4	93951-73-6	1.0	%	**49.4**	**50.2**	**61.5**	**64.3**	**55.7**
2.4.6-Tribromophenol	118-79-6	1.0	%	**75.9**	**73.4**	**76.4**	**78.8**	**102**
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	1.0	%	**63.6**	**64.4**	**66.5**	**68.1**	**53.8**
Anthracene-d10	1719-06-8	1.0	%	**69.8**	**71.6**	**71.6**	**74.3**	**86.8**
4-Terphenyl-d14	1718-51-0	1.0	%	**69.0**	**72.4**	**80.3**	**86.4**	**87.2**

Analytical Results

Sub-Matrix: TCLP LEACHATE (Matrix: WATER)				D04_20211217	D07_20211221	D08_20211221	----	----
				17-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	----	----
				ES2203558-021	ES2203558-022	ES2203558-023	--------	--------
				Result	Result	Result	----	----
EG005(ED093)C: Leachable Metals by ICPAES								
Lead	7439-92-1	0.1	mg/L	**0.1**	**0.1**	**0.3**	**----**	**----**
Nickel	7440-02-0	0.1	mg/L	**----**	**----**	<0.1	**----**	**----**
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Benzo(a)pyrene	50-32-8	0.5	µg/L	<0.5	<0.5	<0.5	**----**	**----**
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	1.0	%	**17.3**	**27.7**	**24.6**	**----**	**----**
2-Chlorophenol-D4	93951-73-6	1.0	%	**60.3**	**55.2**	**48.4**	**----**	**----**
2.4.6-Tribromophenol	118-79-6	1.0	%	**88.8**	**95.2**	**95.8**	**----**	**----**
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	1.0	%	**67.4**	**74.6**	**61.5**	**----**	**----**
Anthracene-d10	1719-06-8	1.0	%	**78.9**	**73.1**	**71.9**	**----**	**----**
4-Terphenyl-d14	1718-51-0	1.0	%	**79.0**	**73.5**	**74.1**	**----**	**----**

Surrogate Control Limits

Sub-Matrix: **TCLP LEACHATE**		Recovery Limits (%)	
		Low	High
EP075(SIM)S: Phenolic Compound Surrogates			
Phenol-d6	13127-88-3	10	44
2-Chlorophenol-D4	93951-73-6	14	94
2.4.6-Tribromophenol	118-79-6	17	125
EP075(SIM)T: PAH Surrogates			
2-Fluorobiphenyl	321-60-8	20	104
Anthracene-d10	1719-06-8	27	113
4-Terphenyl-d14	1718-51-0	32	112

ALS Environmental

QUALITY CONTROL REPORT

Work Order	: **ES2203558**	Page	: 1 of 4
Client	: **ENVIRONMENTAL RESOURCES MANAGEMENT (ERM)**	Laboratory	: Environmental Division Sydney
Contact	: MS JESSICA LAWRENCE	Contact	: Customer Services ES
Address	: LEVEL 15 309 KENT STREET SYDNEY NSW AUSTRALIA 2000	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: +61 02 8584 8888	Telephone	: +61-2-8784 8555
Project	: 0577577 - Burwood	Date Samples Received	: 02-Feb-2022
Order number	: ----	Date Analysis Commenced	: 04-Feb-2022
C-O-C number	: ----	Issue Date	: 09-Feb-2022
Sampler	: TRISTAN RODRIGUES		
Site	: ----		
Quote number	: EN/114		
No. of samples received	: 23		
No. of samples analysed	: 23		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Edwandy Fadjar	Organic Coordinator	Sydney Organics, Smithfield, NSW
Wisam Marassa	Inorganics Coordinator	Sydney Inorganics, Smithfield, NSW

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis. Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Key : Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot
CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
RPD = Relative Percentage Difference
# = Indicates failed QC

Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EG005(ED093)C: Leachable Metals by ICPAES (QC Lot: 4161486)									
ES2203453-001	Anonymous	EG005C: Lead	7439-92-1	0.1	mg/L	<0.1	<0.1	0.0	No Limit
		EG005C: Nickel	7440-02-0	0.1	mg/L	<0.1	<0.1	0.0	No Limit
ES2203558-010	BUR_BH111_0.5	EG005C: Lead	7439-92-1	0.1	mg/L	<0.1	<0.1	0.0	No Limit
		EG005C: Nickel	7440-02-0	0.1	mg/L	<0.1	<0.1	0.0	No Limit
EG005(ED093)C: Leachable Metals by ICPAES (QC Lot: 4161487)									
ES2203558-021	D04_20211217	EG005C: Lead	7439-92-1	0.1	mg/L	0.1	0.1	0.0	No Limit
		EG005C: Nickel	7440-02-0	0.1	mg/L	<0.1	<0.1	0.0	No Limit

Method Blank (MB) and Laboratory Control Sample (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Sample (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EN33: TCLP Leach - Inorganics/Non-Volatile Organics (Glass Vessel) (QCLot: 4155167)								
EN33a-G: Initial pH	----	0.1	pH Unit	1.0	----	----	----	----
EN33a-G: After HCl pH	----	0.1	pH Unit	1.0	----	----	----	----
EN33a-G: Final pH	----	0.1	pH Unit	1.0	----	----	----	----
EN33: TCLP Leach - Inorganics/Non-Volatile Organics (Glass Vessel) (QCLot: 4155168)								
EN33a-G: Initial pH	----	0.1	pH Unit	1.0	----	----	----	----
EN33a-G: After HCl pH	----	0.1	pH Unit	1.0	----	----	----	----
EN33a-G: Final pH	----	0.1	pH Unit	1.0	----	----	----	----
EN33: TCLP Leach - Inorganics/Non-Volatile Organics (Glass Vessel) (QCLot: 4155169)								
EN33a-G: Initial pH	----	0.1	pH Unit	1.0	----	----	----	----
EN33a-G: After HCl pH	----	0.1	pH Unit	1.0	----	----	----	----
EN33a-G: Final pH	----	0.1	pH Unit	1.0	----	----	----	----

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EG005(ED093)C: Leachable Metals by ICPAES (QCLot: 4161486)								
EG005C: Lead	7439-92-1	0.1	mg/L	<0.1	0.1 mg/L	107	80.0	118
EG005C: Nickel	7440-02-0	0.1	mg/L	<0.1	0.1 mg/L	102	83.0	115
EG005(ED093)C: Leachable Metals by ICPAES (QCLot: 4161487)								
EG005C: Lead	7439-92-1	0.1	mg/L	<0.1	0.1 mg/L	99.9	80.0	118
EG005C: Nickel	7440-02-0	0.1	mg/L	<0.1	0.1 mg/L	99.5	83.0	115
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 4157587)								
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	µg/L	<0.5	5 µg/L	67.8	63.3	117

Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

Sub-Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
				Concentration	MS	Low	High
EG005(ED093)C: Leachable Metals by ICPAES (QCLot: 4161486)							
ES2203453-002	Anonymous	EG005C: Lead	7439-92-1	1 mg/L	108	70.0	130
		EG005C: Nickel	7440-02-0	1 mg/L	106	70.0	130

Sub-Matrix: **WATER**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*Concentration*	*MS*	*Low*	*High*
EG005(ED093)C: Leachable Metals by ICPAES (QCLot: 4161487)							
ES2203558-022	D07_20211221	EG005C: Lead	7439-92-1	1 mg/L	102	70.0	130
		EG005C: Nickel	7440-02-0	1 mg/L	100	70.0	130

Amended

Document Revision Date: 27.03.2020

ESA-F-02 COC - Chain Of Custody (SLS)

ADE CONSULTING GROUP

PROJECT:	AFJV -BWN
PROJECT NUMBER - INVOICE NUMBER	21.2041 BWN-WAC1
SAMPLES DELIVERED BY:	ADE Consulting Group 6/7 Millennium Ct, Silverwater NSW 2128
SAMPLERS:	Elisha Cassidy
TURNAROUND:	24h: ASAP: xx 48h: 72h: ☐ 5 WORKING DAYS:
SAMPLING DATE:	09.05.2022
AFTER TEST STORAGE:	ROOM TEMP: ☐ FRIDGE: X FREEZER: ☐ >>4 WEEKS: ☐ OTHER: ☐
REPORT FORMAT:	HARD COPY: ☐ E-MAIL: X
CONSULTANTS SIGNATURE:	CONSULTANT E-MAIL: elisha.cassidy@ade.group; mathew.lynch@ade.group
PROJECT MANAGERS SIGNATURE:	PROJECT MANAGERS E-MAIL: thesan.naidoo@ade.group

LABORATORY REFERENCE NO. (Lab use ONLY):	21.2041 WAC1
RECEIVED BY: KT	SIGNATURE:
SAMPLES: 18 CHILLED: ~~☐~~ PRESERVED: ~~☐~~	PRESERVATION METHOD: X CUSTODY SEAL INTACT: X
MINIMAL HEADSPACE : ~~☐~~	WITHIN HOLDING TIME: ☐
DATE: 16-5-22 TIME: 11:42	TEMPERATURE UPON RECEIPT: °C
LIMS LOT NO. 2202215	LIMS/EXCEL SIGNATURE:
	COMMENTS:

SAMPLE DATA					CONTAINER DATA		ANALYSES REQUIRED										OTHER				TCLP				NOTES
LIMS Sample ID (Lab Use)	TCLP LIMS Sample ID (Consultant Use)	Sample ID (ADE)	MATRIX	SAMPLE DATE	TYPE & PRESERVATIVE	NO.	6 Metal Suite	8 Metal Suite	BTEX	PAH	OCP/OPP	PCB	vTRH (C6-C10)	TRH (C10-C40)	pH/EC	pH/pH fox					TCLP Nickel	TCLP BaP	TCLP Pb	TCLP Metals	POTENTIAL HAZARDOUS CONTAMINANTS: ☐ ASBESTOS ☐ HYDROCARBONS ☐ LEAD/ARSENIC ☐ NO KNOWN CONTAMINATION ☐ OTHER:_____
2022015																									LAB PLEASE *EMAIL COC RECEIPT: ☐
921	2022013137	BWN_BH105-0.5-0.7	Soil	09.05.2022	G	1																	X		
922	2022013141	BWN_BH106-0.7	Soil	09.05.2022	G	2																	X		
923	2022014255	SES-BH1-0.0-0.2	Soil	09.05.2022	G	3															X		X		
924	2022014258	SES-BH1-BR2	Soil	09.05.2022	G	4															X		X		
925	2022014261	SES-BH2-1.0-1.2	Soil	09.05.2022	G	5																	X		
926	2022014265	SES-SEA3-0.0-0.2	Soil	09.05.2022	G	6																	X		
927	2022014266	SES-SEA3-0.3-0.5	Soil	09.05.2022	G	7																	X		
928	2022014267	BH116-DEL1W-0.0-0.2	Soil	09.05.2022	G	8																	X		
929	2022014269	BH116-DEL1S-0.0-0.2	Soil	09.05.2022	G	9																	X		
930	2022014271	BH116-DEL1E-0.0-0.2	Soil	09.05.2022	G	10																	X		
931	2022014272	BH116-DEL1E-0.3-0.5	Soil	09.05.2022	G	11																	X		
932	2022014273	BH116-DEL1N-0.0-0.2	Soil	09.05.2022	G	12																	X		
933	2022014261	SES-BH2-1.0-1.2	Soil	09.05.2022	G	13																X			
934	2022014266	SES-SEA3-0.3-0.5	Soil	09.05.2022	G	14																X			
935	2022014269	BH116-DEL1S-0.0-0.2	Soil	09.05.2022	G	15																X			
936	2022014271	BH116-DEL1E-0.0-0.2	Soil	09.05.2022	G	16																X			
937	2022014273	BH116-DEL1N-0.0-0.2	Soil	09.05.2022	G	17																X			
NEW→ 719	2022014404	SES-BH3-0.0-0.2	Soil	09.05.2022	G	18																	X		Outstanding Sample

Previously reported by SLS.

Tray 80 - (404)

Comments:

Container Type and Preservative: P = Unpreserved Plastic; PN = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; PNA = Sodium Hydroxide Preserved Plastic; PC = HCl preserved Plastic; VC = Vial HCl Preserved; SP = Sulfuric Preserved Plastic; VB = Vial Sodium Bisulphate Preserved; VS = Vial Sulfuric Preserved; V = Unpreserved Vial; G = Amber Glass Unpreserved; SG = Sulfuric Preserved Amber Glass; F = Formaldehyde Preserved Glass; HS = HCl preserved Speciation bottle; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottle; ST = Sterile Bottle; J = Unpreserved Glass Jar; ASS = Plastic Bag for Acid Sulfate Soils; B = Unpreserved Bag.

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Sydney Laboratory Services

A division of A. D. Envirotech Australia Pty Ltd
A.C.N. 093 452 950
Unit 4/10-11 Millennium Court,
Silverwater 2128
Ph: (02) 9648-6669

Accreditation No.14664
Accredited for compliance with ISO/IEC 17025 - Testing.

SAMPLE RECEIPT NOTIFICATION (SRN)

Contact:	Thesan Naidoo / Mathew Lynch / Elisha Cassidy
Project name:	21.2041.WAC1 + WAC8
Number of samples:	18
COC number:	21.2041.WAC1 + WAC8
Turn around time:	24hr
Date:	16.05.2022
Time received:	11:42 AM
SLS Reference:	2202215
Estimated Report Delivery Date:	12.05.2022

Sample information

☑	All samples have been received and logged into LIMS.
☑	No mistakes in the COC
☑	Evidence of chilling for samples
N/A	Samples were preserved
N/A	Custody seal intact
☑	Samples were delivered within holding time
☑	Samples to be tested for volatiles had zero headspace
☑	All samples were received in good condition (no broken jars, labelled correctly…).
☐	Samples have been subcontracted

Comments

This report contains:
Sample receipt non-conformities
Summary of samples and requested analysis
Requested report deliverables

Asbestos Samples are reported as per the State EPA guidelines

Contact details

If you have any questions with respect to these samples please contact:
sls@ade.group

Trianah Tumbridge

Sydney Laboratory Services

A division of A. D. Envirotech Australia Pty Ltd
A.C.N. 093 452 950
Unit 4/10-11 Millennium Court,
Silverwater 2128
Ph: (02) 9648-6669

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SAMPLE RECEIPT NOTIFICATION (SRN)

Laboratory Sample ID	Client Sample ID	TCLP PAH B(a)P PQL<0.2 ug/L	TCLP PAH B(a)P PQL<5.0 ug/L	TCLP Metals	TCLP PFAS
2022014921	BWN_BH105-0.5-0.7			X	
2022014922	BWN_BH106-0.7			X	
2022014923	SES-BH1-0.0-0.2			X	
2022014924	SES-BH1-BR2			X	
2022014925	SES-BH2-1.0-1.2			X	
2022014926	SES-SEA3-0.0-0.2			X	
2022014927	SES-SEA3-0.3-0.5			X	
2022014928	DEL1W-0.0-0.2			X	
2022014929	DEL1S-0.0-0.2			X	
2022014930	DEL1E-0.0-0.2			X	
2022014931	DEL1E-0.3-0.5			X	
2022014932	DEL1N-0.0-0.2			X	
2022014933	SES-BH2-1.0-1.2		X		
2022014934	SES-SEA3-0.3-0.5		X		
2022014935	DEL1S-0.0-0.2		X		
2022014936	DEL1E-0.0-0.2		X		
2022014937	DEL1N-0.0-0.2		X		
2022015719	SES-BH3-0.0-0.2			X	

Sydney Laboratory Services

A division of A. D. Envirotech Australia Pty Ltd
A.C.N. 093 452 950
Unit 4/10-11 Millennium Court,
Silverwater 2128
Ph: (02) 9648-6669

Accreditation No.14664
Accredited for compliance with ISO/IEC 17025 - Testing.

This certificate of analysis contains General Comments and Analytical Results. Quality Control Report and Laboratory Quality Acceptance Criteria have been issued separately.

This report supersedes any previous report(s) with this reference. This document shall not be reproduced, except in full.

This report has been electronically signed by authorised signatories below.

Authorised By



Kaiyu Li

General Comments

Samples are analysed on as received basis. Sampling is not covered by NATA accreditation.

Where moisture determination has been performed, results are reported on dry weight basis.

Where the PQL of reported result differs from standard PQL, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Samples were analysed within holding time described by laboratory internal procedures if not stated otherwise. If samples delivered do not meet required analytical criteria, results will be marked with ^.

However surrogate standards are added to samples, results are not corrected for standards recoveries.

Analysis of VOC in water samples are performed on unfiltered waters (as received) spiked with surrogates and injection standards only.

SLS is responsible for all the information in the report, except that provided by the customer.

All sampling information included in the report has been provided by customer.

Information provided by the customer can affect the validity of the results.

Sydney Laboratory Services
A division of A. D. Envirotech Australia Pty Ltd
Unit 4/10-11 Millennium Court
Silverwater 2128
Ph: (02) 9648-6669

Certificate of Analysis

Contact:	Thesan Naidoo	**Date Reported:**	17/05/2022
Customer:	ADE Consulting Group	**No. of Samples:**	19
Address:	Unit 6 7 Millennium Court Silverwater NSW	**Date Received:**	11/05/2022
		Date of Analysis:	16/05/2022
Cust Ref:	21.2041 BWN WAC1		

Glossary:

*NATA accreditation does not cover the performance of this service
ND-not detected,
NT-not tested
INS-Insufficient material to perform the test
LCS-Laboratory Control Sample
RPD-Relative Percent Difference
N/A-Not Applicable
< less than
> greater than
PQL- Practical Quantitation Limit
^Analytical result might be compromised due to sample condition or holding time requirements
Reaction rate 1 = Slight
Reaction rate 2 = Moderate
Reaction rate 3 = High
Reaction rate 4 = Vigorous

Sydney Laboratory Services
A division of A. D. Envirotech Australia Pty Ltd
Unit 4/10-11 Millennium Court
Silverwater 2128
Ph: (02) 9648-6669

Certificate of Analysis

	Sample ID:	2022014921	2022014922	2022014923	2022014924	2022014925	2022014926	2022014927	2022014928	2022014929	2022014930	2022014931
	Sample Name	BWN_BH105-0.5-0.7	BWN_BH106-0.7	SES-BH1-0.0-0.2	SES-BH1-BR2	SES-BH2-1.0-1.2	SES-SEA3-0.0-0.2	SES-SEA3-0.3-0.5	BH116-DEL1W-0.0-0.2	BH116-DEL1S-0.0-0.2	BH116-DEL1E-0.0-0.2	BH116-DEL1E-0.3-0.5
Parameter	*Units*	*PQL*										
ESA-MP-01,ICP-01												
Lead	mg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel	mg/L	0.2	-	-	0.3	<0.2	-	-	-	-	-	-	-
ESA-P-21												
pH A	-		7.0	7.9	9.1	8.5	6.5	7.2	6.4	7.5	7.2	7.7	5.7
pH B	-		1.1	1.5	1.3	1.5	1.0	1.3	1.6	1.5	1.5	1.5	1.1
Extraction Fluid	-		1	1	1	1	1	1	1	1	1	1	1

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Certificate of Analysis

	Sample ID:	2022014932	2022014933	2022014934	2022014935	2022014936	2022014937	2022015282	2022015719
	Sample Name	BH116-DEL1N-0.0-0.2	SES-BH2-1.0-1.2	SES-SEA3-0.3-0.5	BH116-DEL1S-0.0-0.2	BH116-DEL1E-0.0-0.2	BH116-DEL1N-0.0-0.2	ADE-TP107-0.0-0.2	SES-BH3-0.0-0.2
Parameter	**Units**	**PQL**							
ESA-MP-01,ICP-01									
Lead	mg/L	0.5	<0.5	-	-	-	-	-	-	<0.5
Nickel	mg/L	0.2	-	-	-	-	-	-	<0.2	-
ESA-P ORG(02,04,12)									
Acenaphthene	mg/L	0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Acenaphthylene	mg/L	0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Anthracene	mg/L	0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Benzo[a]anthracene	mg/L	0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Benzo[a]pyrene	mg/L	0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Benzo[b]fluoranthene	mg/L	0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Benzo[g,h,i]perylene	mg/L	0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Benzo[k]fluoranthene	mg/L	0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Chrysene	mg/L	0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Dibenzo[a,h]anthracene	mg/L	0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Fluoranthene	mg/L	0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Fluorene	mg/L	0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Indeno(1,2,3-cd)pyrene	mg/L	0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Naphthalene	mg/L	0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Phenanthrene	mg/L	0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Pyrene	mg/L	0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
p-Terphenyl-d14	%		-	97	98	90	88	84	-	-
ESA-P-21									
pH A	-		7.7	6.5	6.4	7.2	7.7	7.7	9.3	8.8
pH B	-		1.4	1.0	1.6	1.5	1.5	1.4	1.6	1.7
Extraction Fluid	-		1	1	1	1	1	1	1	1

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A.C.N. 093 452 950
Unit 4/10-11 Millennium Court,
Silverwater 2128
Ph: (02) 9648-6669

Accreditation No.14664
Accredited for compliance with ISO/IEC 17025 - Testing.

This Quality Control Report contains results of QAQC samples analysis and the Laboratory Acceptance Criteria.

This report supersedes any previous report(s) with this reference. This document shall not be reproduced, except in full.

This report has been electronically signed by authorised signatories below.

Authorised By



Kaiyu Li

General Comments

Duplicate samples and matrix spike may not be prepared on smaller jobs, however are analysed at frequency. QAQC samples shown within the report as e.g. Batch Blank, Batch Matrix Spike were performed on samples not reported on that Certificate of Analysis.

Blank This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in the same manner as for samples.
Duplicate This is the interlaboratory split of a random sample from the processed batch
Matrix Spike A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample): This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class.
Surr. (Surrogate Spike) Surrogates are known additions to each sample, blank and matrix spike or LCS in a batch. Surrogates are chosen as a compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Blank shall be < PQL
Matrix Spikes and LCS: Generally 70-130% for inorganics/metals/PFAS, 60-140% for organics is acceptable. Matrix heterogeneity may result in matrix spike analyses falling outside these limits
RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:
Results <10 times the PQL : No Limit
Results between 10-20 times the PQL : RPD must lie between 0-50%
Results >20 times the PQL : RPD must lie between 0-30%
Surrogate Recoveries : Recoveries must lie between 50-150%

SLS is responsible for all the information in the report, except that provided by the customer.

All sampling information included in the report has been provided by customer.

Information provided by the customer can affect the validity of the results.

Sydney Laboratory Services
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Silverwater 2128
Ph: (02) 9648-6669

Quality Control Report

Contact:	Thesan Naidoo	**Date Reported:**	17/05/2022
Customer:	ADE Consulting Group	**No. of Samples:**	10
Address:	Unit 6 7 Millennium Court Silverwater NSW	**Date Received:**	11/05/2022
		Date of Analysis:	16/05/2022

Cust Ref: 21.2041 BWN WAC1

Glossary:

*NATA accreditation does not cover the performance of this service
ND-not detected,
NT-not tested
INS-Insufficient material to perform the test
LCS-Laboratory Control Sample
RPD-Relative Percent Difference
N/A-Not Applicable
< less than
> greater than
PQL- Practical Quantitation Limit
^Analytical result might be compromised due to sample condition or holding time requirements
Reaction rate 1 = Slight
Reaction rate 2 = Moderate
Reaction rate 3 = High
Reaction rate 4 = Vigorous

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Quality Control Report

		Sample ID:	D202201487601	
		Sample Name	220510 MSP TR06	
Parameter	*Units*	*PQL*		
ESA-P-ORG(02,04,12)				
Acenaphthene			Pass	
Acenaphthylene			Pass	
Anthracene			Pass	
Benzo[a]anthracene			Pass	
Benzo[a]pyrene			Pass	
Benzo[b]fluoranthene			Pass	
Benzo[g,h,i]perylene			Pass	
Benzo[k]fluoranthene			Pass	
Chrysene			Pass	
Dibenzo[a,h]anthracene			Pass	
Fluoranthene			Pass	
Fluorene			Pass	
Indeno(1,2,3-cd)pyrene			Pass	
Naphthalene			Pass	
Phenanthrene			Pass	
Pyrene			Pass	
p-Terphenyl-d14	%		64	

		Sample ID:	D202201492201	D202201493101
		Sample Name	BWN_BH106-0.7	DEL1E-0.3-0.5
Parameter	*Units*	*PQL*		
ESA-MP-01,ICP-01				
Lead			Pass	Pass
Nickel			Pass	Pass

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Sample ID:	**D202201493401**
Sample Name	**SES-SEA3-0.3-0.5**

Parameter	*Units*	*PQL*	
ESA-P-ORG(02,04,12)			
Acenaphthene			Pass
Acenaphthylene			Pass
Anthracene			Pass
Benzo[a]anthracene			Pass
Benzo[a]pyrene			Pass
Benzo[b]fluoranthene			Pass
Benzo[g,h,i]perylene			Pass
Benzo[k]fluoranthene			Pass
Chrysene			Pass
Dibenzo[a,h]anthracene			Pass
Fluoranthene			Pass
Fluorene			Pass
Indeno(1,2,3-cd)pyrene			Pass
Naphthalene			Pass
Phenanthrene			Pass
Pyrene			Pass
p-Terphenyl-d14	%		91

Sample ID:	**Q2022003498**
Sample Name	

Parameter	*Units*	*PQL*	PAH Blank - TCLP
ESA-P-ORG(02,04,12)			
Acenaphthene	mg/L	0.005	<0.005
Acenaphthylene	mg/L	0.005	<0.005
Anthracene	mg/L	0.005	<0.005
Benzo[a]anthracene	mg/L	0.005	<0.005
Benzo[a]pyrene	mg/L	0.005	<0.005
Benzo[b]fluoranthene	mg/L	0.005	<0.005
Benzo[g,h,i]perylene	mg/L	0.005	<0.005
Benzo[k]fluoranthene	mg/L	0.005	<0.005

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Chrysene	mg/L	0.005	<0.005
Dibenzo[a,h]anthracene	mg/L	0.005	<0.005
Fluoranthene	mg/L	0.005	<0.005
Fluorene	mg/L	0.005	<0.005
Indeno(1,2,3-cd)pyrene	mg/L	0.005	<0.005
Naphthalene	mg/L	0.005	<0.005
Phenanthrene	mg/L	0.005	<0.005
Pyrene	mg/L	0.005	<0.005

Sample ID: **Q2022003499**

Sample Name

Parameter	*Units*	*PQL*	PAH Blank Spike-TCLP
ESA-P-ORG(02,04,12)			
Acenaphthene	%		93
Anthracene	%		94
Fluoranthene	%		87
Naphthalene	%		89
Phenanthrene	%		88
Pyrene	%		89
p-Terphenyl-d14	%		99

Sample ID: **Q2022003502**

Sample Name

Parameter	*Units*	*PQL*	Metals Blank - TCLP
ESA-MP-01,ICP-01			
Lead	mg/L	0.5	<0.5
Nickel	mg/L	0.2	<0.2

Sample ID: **Q2022003503**

Sample Name

Parameter	*Units*	*PQL*	Metals Blank Sp-TCLP
ESA-MP-01,ICP-01			
Lead	%		105
Nickel	%		103

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		Sample ID:	**S202201492101**
		Sample Name	**BWN_BH105-0.5-0.7**
Parameter	***Units***	***PQL***	
ESA-MP-01,ICP-01			
Lead	%		107
Nickel	%		101

		Sample ID:	**S202201493301**
		Sample Name	**SES-BH2-1.0-1.2**
Parameter	***Units***	***PQL***	
ESA-P-ORG(02,04,12)			
Acenaphthene	%		90
Anthracene	%		97
Fluoranthene	%		78
Naphthalene	%		88
Phenanthrene	%		95
Pyrene	%		86
p-Terphenyl-d14 (Surr.)	%		99

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Silverwater 2128
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SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : **ES2203558**

Client	: **ENVIRONMENTAL RESOURCES MANAGEMENT (ERM)**	Laboratory	: Environmental Division Sydney
Contact	: MS JESSICA LAWRENCE	Contact	: Customer Services ES
Address	: LEVEL 15 309 KENT STREET SYDNEY NSW AUSTRALIA 2000	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
E-mail	: jessica.lawrence@erm.com	E-mail	: ALSEnviro.Sydney@ALSGlobal.com
Telephone	: +61 02 8584 8888	Telephone	: +61-2-8784 8555
Facsimile	: +61 02 8584 8800	Facsimile	: +61-2-8784 8500
Project	: 0577577 - Burwood	Page	: 1 of 3
Order number	: ----	Quote number	: EP2020ENVRES0018 (EN/114)
C-O-C number	: ----	QC Level	: NEPM 2013 B3 & ALS QC Standard
Site	: ----		
Sampler	: TRISTAN RODRIGUES		

Dates

Date Samples Received	: 02-Feb-2022 15:29	Issue Date	: 02-Feb-2022
Client Requested Due Date	: 09-Feb-2022	Scheduled Reporting Date	: **09-Feb-2022**

Delivery Details

Mode of Delivery	: Samples On Hand	Security Seal	: Not Available
No. of coolers/boxes	: ----	Temperature	: 4.1'C
Receipt Detail	:	No. of samples received / analysed	: 23 / 23

General Comments

- This report contains the following information:
  - Sample Container(s)/Preservation Non-Compliances
  - Summary of Sample(s) and Requested Analysis
  - Proactive Holding Time Report
  - Requested Deliverables
- **Rebatch of ES2146990, ES2146476, ES2146625, ES2201633.**
- **Please refer to the Proactive Holding Time Report table below which summarises breaches of recommended holding times that have occurred prior to samples/instructions being received at the laboratory. The laboratory will process these samples unless instructions are received from you indicating you do not wish to proceed. The absence of this summary table indicates that all samples have been received within the recommended holding times for the analysis requested.**
- Please direct any queries you have regarding this work order to the above ALS laboratory contact.
- Analytical work for this work order will be conducted at ALS Sydney.
- Sample Disposal - Aqueous (3 weeks), Solid (2 months ± 1 week) from receipt of samples.
- Please be aware that APHA/NEPM recommends water and soil samples be chilled to less than or equal to 6°C for chemical analysis, and less than or equal to 10°C but unfrozen for Microbiological analysis. Where samples are received above this temperature, it should be taken into consideration when interpreting results. Refer to ALS EnviroMail 85 for ALS recommendations of the best practice for chilling samples after sampling and for maintaining a cool temperature during transit.

Sample Container(s)/Preservation Non-Compliances

All comparisons are made against pretreatment/preservation AS, APHA, USEPA standards.

- **No sample container / preservation non-compliance exists.**

Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package.
If no sampling time is provided, the sampling time will default 00:00 on the date of sampling. If no sampling date is provided, the sampling date will be assumed by the laboratory and displayed in brackets without a time component

Matrix: **SOIL**

Laboratory sample ID	Sampling date / time	Sample ID	SOIL - EG005C Leachable Metals by ICPAES	SOIL - EN33a-G TCLP Leachate - Glass Leaching Vessel	SOIL - EP075 SIM PAH only SIM - PAH only
ES2203558-001	21-Dec-2021 00:00	BUR_BH101_0.1		✓	✓
ES2203558-002	16-Dec-2021 00:00	BUR_BH103_0.1	✓	✓	✓
ES2203558-003	16-Dec-2021 00:00	BUR_BH104_0.2		✓	✓
ES2203558-004	17-Dec-2021 00:00	BUR_BH106_0.2	✓	✓	✓
ES2203558-005	17-Dec-2021 00:00	BUR_BH107_5.0	✓	✓	
ES2203558-006	17-Dec-2021 00:00	BUR_BH108_0.2	✓	✓	✓
ES2203558-007	20-Dec-2021 00:00	BUR_BH109_5.0	✓	✓	
ES2203558-008	20-Dec-2021 00:00	BUR_BH111_0.2	✓	✓	✓
ES2203558-009	20-Dec-2021 00:00	BUR_BH110_5.0	✓	✓	
ES2203558-010	20-Dec-2021 00:00	BUR_BH111_0.5	✓	✓	
ES2203558-011	21-Dec-2021 00:00	BUR_BH112_0.2	✓	✓	
ES2203558-012	20-Dec-2021 00:00	BUR_BH114_5.0	✓	✓	
ES2203558-013	21-Dec-2021 00:00	BUR_BH115_0.2	✓	✓	✓
ES2203558-014	21-Dec-2021 00:00	BUR_BH115_0.5	✓	✓	✓
ES2203558-015	21-Dec-2021 00:00	BUR_BH115_1.0	✓	✓	
ES2203558-016	21-Dec-2021 00:00	BUR_BH116_0.2	✓	✓	✓
ES2203558-017	21-Dec-2021 00:00	BUR_BH117_0.2	✓	✓	✓
ES2203558-018	18-Dec-2021 00:00	BUR_BH123_0.3	✓	✓	✓
ES2203558-019	21-Dec-2021 00:00	BUR_BH125_0.2	✓	✓	✓
ES2203558-020	16-Dec-2021 00:00	D01_20211216	✓	✓	✓
ES2203558-021	17-Dec-2021 00:00	D04_20211217	✓	✓	✓
ES2203558-022	21-Dec-2021 00:00	D07_20211221	✓	✓	✓
ES2203558-023	21-Dec-2021 00:00	D08_20211221	✓	✓	✓

Proactive Holding Time Report

The following table summarises breaches of recommended holding times that have occurred prior to samples/instructions being received at the laboratory.

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Client Sample ID(s)	Container	Due for extraction	Due for analysis	Samples Received Date	Samples Received Evaluation	Instructions Received Date	Instructions Received Evaluation
EN33a-G: TCLP for Non & Semivolatile Analytes - Glass Leaching Vessel							
BUR_BH101_0.1	Non-Volatile Leach: 14 day HT(e	04-Jan-2022	----	02-Feb-2022	×	----	----
BUR_BH103_0.1	Non-Volatile Leach: 14 day HT(e	30-Dec-2021	----	02-Feb-2022	×	----	----
BUR_BH104_0.2	Non-Volatile Leach: 14 day HT(e	30-Dec-2021	----	02-Feb-2022	×	----	----
BUR_BH106_0.2	Non-Volatile Leach: 14 day HT(e	31-Dec-2021	----	02-Feb-2022	×	----	----
BUR_BH108_0.2	Non-Volatile Leach: 14 day HT(e	31-Dec-2021	----	02-Feb-2022	×	----	----
BUR_BH111_0.2	Non-Volatile Leach: 14 day HT(e	03-Jan-2022	----	02-Feb-2022	×	----	----

BUR_BH115_0.2	Non-Volatile Leach: 14 day HT(ε	04-Jan-2022	----	02-Feb-2022	✘	----	----
BUR_BH115_0.5	Non-Volatile Leach: 14 day HT(ε	04-Jan-2022	----	02-Feb-2022	✘	----	----
BUR_BH116_0.2	Non-Volatile Leach: 14 day HT(ε	04-Jan-2022	----	02-Feb-2022	✘	----	----
BUR_BH117_0.2	Non-Volatile Leach: 14 day HT(ε	04-Jan-2022	----	02-Feb-2022	✘	----	----
BUR_BH123_0.3	Non-Volatile Leach: 14 day HT(ε	01-Jan-2022	----	02-Feb-2022	✘	----	----
BUR_BH125_0.2	Non-Volatile Leach: 14 day HT(ε	04-Jan-2022	----	02-Feb-2022	✘	----	----
D01_20211216	Non-Volatile Leach: 14 day HT(ε	30-Dec-2021	----	02-Feb-2022	✘	----	----
D04_20211217	Non-Volatile Leach: 14 day HT(ε	31-Dec-2021	----	02-Feb-2022	✘	----	----
D07_20211221	Non-Volatile Leach: 14 day HT(ε	04-Jan-2022	----	02-Feb-2022	✘	----	----
D08_20211221	Non-Volatile Leach: 14 day HT(ε	04-Jan-2022	----	02-Feb-2022	✘	----	----

Requested Deliverables

ACCOUNTS PAYABLE

- A4 - AU Tax Invoice (INV) — Email — au.accounts@erm.com

JESSICA LAWRENCE

- *AU Certificate of Analysis - NATA (COA) — Email — jessica.lawrence@erm.com
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI) — Email — jessica.lawrence@erm.com
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC) — Email — jessica.lawrence@erm.com
- A4 - AU Sample Receipt Notification - Environmental HT (SRN) — Email — jessica.lawrence@erm.com
- A4 - AU Tax Invoice (INV) — Email — jessica.lawrence@erm.com
- Chain of Custody (CoC) (COC) — Email — jessica.lawrence@erm.com
- EDI Format - ENMRG (ENMRG) — Email — jessica.lawrence@erm.com
- EDI Format - EQUIS V5 ERM (EQUIS_V5_ERM) — Email — jessica.lawrence@erm.com
- EDI Format - ESDAT (ESDAT) — Email — jessica.lawrence@erm.com

TRISTAN RODRIGUES

- *AU Certificate of Analysis - NATA (COA) — Email — Tristan.rodrigues@erm.com
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI) — Email — Tristan.rodrigues@erm.com
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC) — Email — Tristan.rodrigues@erm.com
- A4 - AU Sample Receipt Notification - Environmental HT (SRN) — Email — Tristan.rodrigues@erm.com
- Chain of Custody (CoC) (COC) — Email — Tristan.rodrigues@erm.com
- EDI Format - ENMRG (ENMRG) — Email — Tristan.rodrigues@erm.com
- EDI Format - EQUIS V5 ERM (EQUIS_V5_ERM) — Email — Tristan.rodrigues@erm.com
- EDI Format - ESDAT (ESDAT) — Email — Tristan.rodrigues@erm.com

From: Sarah Mathew
Sent: Monday, 31 January 2022 4:29 PM
To: rebatches.sydney
Subject: FW: [EXTERNAL] - 0577577- Burwood TCLP Analysis

Follow Up Flag: Follow up
Flag Status: Flagged

Vishal
31/01/2022
1529

Hi Team,

Can you please organise the below rebatches.
ES2146990 – tray S448-453
ES2146476 – tray S339-342
ES2146625 – tray S389 - 391
ES2201633 – tray s659

Kind Regards,

Sarah Mathew
Client Services Officer, Environmental
Sydney

T +61 2 8784 8555 F +61 2 8784 8500
D +61 2 8784 8534
sarah.mathew@alsglobal.com
277-289 Woodpark Road
Smithfield NSW 2164 AUSTRALIA

Environmental Division
Sydney
Work Order Reference
ES2203558

Telephone : +61-2-8784 8555

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EnviroMail™ 131 - Important Changes to the Australian Standard Leaching Procedures AS4439.2 & AS4439.3

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From: Tristan Rodrigues [mailto:Tristan.Rodrigues@erm.com]
Sent: Monday, 31 January 2022 3:29 PM
To: ALSEnviro Sydney <ALSEnviro.Sydney@ALSGlobal.com>; John Nguyen <JohnNguyen@eurofins.com>; #AU04_Enviro_Sample_NSW <EnviroSampleNSW@eurofins.com>; Helen Simpson <helen.simpson@alsglobal.com>
Cc: Nicholas Grbich <Nicholas.Grbich@erm.com>; Jessica Lawrence <Jessica.Lawrence@erm.com>; Madushani Bolonghe <Madushani.Bolonghe@erm.com>
Subject: [EXTERNAL] - 0577577- Burwood TCLP Analysis

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Hey guys,

For the following job (0577577)- Burwood could we please get TCLP analysis done on the following samples. Standard TAT
The samples that were forwarded to Eurofins are highlighted below.

ALS

	Sample ID	Sample Date		Lab report number	TCLP Analysis Required	
1	BUR_BH101_0.1	21/12/2021	40	ES2146990	BaP	
2	BUR_BH103_0.1	16/12/2021	12	ES2146476	BaP	Lead
3	BUR_BH104_0.2	16/12/2021	19	ES2146476	BaP	
4	BUR_BH106_0.2	17/12/2021	12	ES2146625	BaP	Lead
5	BUR_BH107_5.0	17/12/2021	23	ES2146625		Nickel
6	BUR_BH108_0.2	17/12/2021	4	ES2146625	BaP	Lead
7	BUR_BH109_0.5	20/12/2021	2	ES2146990		Lead
8	BUR_BH110_0.2	20/12/2021	10	ES2146990	BaP	Lead
9	BUR_BH110_5.0	20/12/2021	13	ES2146990		Nickel
10	BUR_BH111_0.5	20/12/2021	6	ES2146990		Lead
11	BUR_BH112_0.2	21/12/2021	43	ES2146990		Nickel
12	BUR_BH114_5.0	20/12/2021	21	ES2146990		Nickel

BUR_BH115_0.2 13	21/12/2021 27	ES2146990	BaP	Lead & Nickel
BUR_BH115_0.5 14	21/12/2021 28	ES2146990	BaP	Lead
BUR_BH115_1.0 15	21/12/2021 29	ES2146990		Lead
BUR_BH116_0.2 16	21/12/2021 47	ES2146990	BaP	Lead
BUR_BH117_0.2 17	21/12/2021 33	ES2146990	BaP	Lead
BUR_BH123_0.3 18	18/01/2022 ? *	ES2201633	BaP	Lead
BUR_BH125_0.2 19	21/12/2021 21	ES2146990	BaP	Lead
D01_20211216 20	16/12/2021 31	ES2146476	BaP	Lead
D04_20211217 21	17/12/2021 05	ES2146625	BaP	Lead
D07_20211221 22	21/12/2021 48	ES2146990	BaP	Lead
D08_20211221 23	21/12/2021 36	ES2146990	BaP	Lead & Nickel

S821

Eurofins

Sample ID	Sample Date	Lab report number	TCLP Analysis Required	
T01_20211216	16/12/2021	852763	BaP	Lead
T05-20211220	20/12/2021	853323	BaP	Lead
T07-20211221	21/12/2021	853323		Lead & Nickel
TO4-20211217	17/12/2021	853149		Lead

Kind Regards

Tristan Rodrigues
Environmental Consultant

ERM
Unit 11, 277 Lane Cove Road | Macquarie Park | NSW | 2113
T +61 2 8586 8750 **M** +61417187687
E Tristan.Rodrigues@erm.com | **W** www.erm.com

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ALS Environmental

CERTIFICATE OF ANALYSIS

Work Order	: **ES2203558**	Page	: 1 of 13
Client	: **ENVIRONMENTAL RESOURCES MANAGEMENT (ERM)**	Laboratory	: Environmental Division Sydney
Contact	: MS JESSICA LAWRENCE	Contact	: Customer Services ES
Address	: LEVEL 15 309 KENT STREET SYDNEY NSW AUSTRALIA 2000	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: +61 02 8584 8888	Telephone	: +61-2-8784 8555
Project	: 0577577 - Burwood	Date Samples Received	: 02-Feb-2022 15:29
Order number	: ----	Date Analysis Commenced	: 04-Feb-2022
C-O-C number	: ----	Issue Date	: 09-Feb-2022 18:57
Sampler	: TRISTAN RODRIGUES		
Site	: ----		
Quote number	: EN/114		
No. of samples received	: 23		
No. of samples analysed	: 23		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Edwandy Fadjar	Organic Coordinator	Sydney Organics, Smithfield, NSW
Wisam Marassa	Inorganics Coordinator	Sydney Inorganics, Smithfield, NSW

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- EP075 (SIM): Where reported, Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) per the NEPM (2013) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a.h)anthracene (1.0), Benzo(g.h.i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero.
- EP075(SIM): Where reported, Total Cresol is the sum of the reported concentrations of 2-Methylphenol and 3- & 4-Methylphenol at or above the LOR.

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				BUR_BH101_0.1	BUR_BH103_0.1	BUR_BH104_0.2	BUR_BH106_0.2	BUR_BH107_5.0
				21-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
				ES2203558-001	ES2203558-002	ES2203558-003	ES2203558-004	ES2203558-005
				Result	Result	Result	Result	Result
EN33: TCLP Leach - Inorganics/Non-Volatile Organics (Glass Vessel)								
Initial pH	----	0.1	pH Unit	**9.2**	**6.9**	**7.8**	**9.2**	**8.0**
After HCl pH	----	0.1	pH Unit	**1.5**	**1.4**	**1.4**	**1.4**	**1.4**
Extraction Fluid Number	----	1	-	**1**	**1**	**1**	**1**	**1**
Final pH	----	0.1	pH Unit	**5.2**	**4.9**	**5.0**	**5.0**	**4.9**

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				BUR_BH108_0.2	BUR_BH109_0.5	BUR_BH110_0.2	BUR_BH110_5.0	BUR_BH111_0.5
				17-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
				ES2203558-006	ES2203558-007	ES2203558-008	ES2203558-009	ES2203558-010
				Result	Result	Result	Result	Result
EN33: TCLP Leach - Inorganics/Non-Volatile Organics (Glass Vessel)								
Initial pH	----	0.1	pH Unit	**7.3**	**7.3**	**9.5**	**8.6**	**7.8**
After HCl pH	----	0.1	pH Unit	**1.5**	**1.5**	**3.7**	**1.5**	**1.5**
Extraction Fluid Number	----	1	-	**1**	**1**	**1**	**1**	**1**
Final pH	----	0.1	pH Unit	**5.0**	**5.0**	**6.3**	**5.0**	**5.1**

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				BUR_BH112_0.2	BUR_BH114_5.0	BUR_BH115_0.2	BUR_BH115_0.5	BUR_BH115_1.0
				21-Dec-2021 00:00	20-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
				ES2203558-011	ES2203558-012	ES2203558-013	ES2203558-014	ES2203558-015
				Result	Result	Result	Result	Result
EN33: TCLP Leach - Inorganics/Non-Volatile Organics (Glass Vessel)								
Initial pH	----	0.1	pH Unit	**9.4**	**8.6**	**9.4**	**8.1**	**5.4**
After HCl pH	----	0.1	pH Unit	**1.5**	**1.4**	**1.6**	**1.5**	**1.4**
Extraction Fluid Number	----	1	-	**1**	**1**	**1**	**1**	**1**
Final pH	----	0.1	pH Unit	**5.5**	**5.0**	**5.6**	**5.1**	**4.9**

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				BUR_BH116_0.2	BUR_BH117_0.2	BUR_BH123_0.3	BUR_BH125_0.2	D01_20211216
				21-Dec-2021 00:00	21-Dec-2021 00:00	18-Dec-2021 00:00	21-Dec-2021 00:00	16-Dec-2021 00:00
				ES2203558-016	ES2203558-017	ES2203558-018	ES2203558-019	ES2203558-020
				Result	Result	Result	Result	Result
EN33: TCLP Leach - Inorganics/Non-Volatile Organics (Glass Vessel)								
Initial pH	----	0.1	pH Unit	**7.7**	**8.3**	**7.1**	**8.8**	**7.0**
After HCl pH	----	0.1	pH Unit	**1.5**	**1.6**	**1.4**	**1.8**	**1.5**
Extraction Fluid Number	----	1	-	**1**	**1**	**1**	**1**	**1**
Final pH	----	0.1	pH Unit	**5.1**	**5.2**	**4.9**	**5.3**	**4.9**

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				D04_20211217	D07_20211221	D08_20211221	----	----
				17-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	----	----
				ES2203558-021	ES2203558-022	ES2203558-023	--------	--------
				Result	Result	Result	----	----
EN33: TCLP Leach - Inorganics/Non-Volatile Organics (Glass Vessel)								
Initial pH	----	0.1	pH Unit	**7.0**	**8.0**	**8.4**	**----**	**----**
After HCl pH	----	0.1	pH Unit	**1.7**	**1.7**	**1.7**	**----**	**----**
Extraction Fluid Number	----	1	-	**1**	**1**	**1**	**----**	**----**
Final pH	----	0.1	pH Unit	**5.0**	**5.1**	**5.3**	**----**	**----**

Analytical Results

Sub-Matrix: TCLP LEACHATE (Matrix: WATER)				BUR_BH101_0.1	BUR_BH103_0.1	BUR_BH104_0.2	BUR_BH106_0.2	BUR_BH107_5.0
				21-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
				ES2203558-001	ES2203558-002	ES2203558-003	ES2203558-004	ES2203558-005
				Result	Result	Result	Result	Result
EG005(ED093)C: Leachable Metals by ICPAES								
Lead	7439-92-1	0.1	mg/L	----	<0.1	----	<0.1	----
Nickel	7440-02-0	0.1	mg/L	----	----	----	----	<0.1
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Benzo(a)pyrene	50-32-8	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	----
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	1.0	%	**20.6**	**20.5**	**21.7**	**21.9**	----
2-Chlorophenol-D4	93951-73-6	1.0	%	**46.5**	**47.1**	**46.9**	**48.6**	----
2.4.6-Tribromophenol	118-79-6	1.0	%	**70.8**	**73.8**	**68.2**	**72.2**	----
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	1.0	%	**47.7**	**51.8**	**57.5**	**62.7**	----
Anthracene-d10	1719-06-8	1.0	%	**64.9**	**64.7**	**68.0**	**69.2**	----
4-Terphenyl-d14	1718-51-0	1.0	%	**65.8**	**65.2**	**69.1**	**69.4**	----

Analytical Results

Sub-Matrix: TCLP LEACHATE (Matrix: WATER)				BUR_BH108_0.2	BUR_BH109_0.5	BUR_BH110_0.2	BUR_BH110_5.0	BUR_BH111_0.5
				17-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
				ES2203558-006	ES2203558-007	ES2203558-008	ES2203558-009	ES2203558-010
				Result	Result	Result	Result	Result
EG005(ED093)C: Leachable Metals by ICPAES								
Lead	7439-92-1	0.1	mg/L	<0.1	<0.1	<0.1	----	<0.1
Nickel	7440-02-0	0.1	mg/L	----	----	----	**0.1**	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Benzo(a)pyrene	50-32-8	0.5	µg/L	<0.5	----	<0.5	----	----
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	1.0	%	**20.2**	----	**21.9**	----	----
2-Chlorophenol-D4	93951-73-6	1.0	%	**44.4**	----	**47.6**	----	----
2.4.6-Tribromophenol	118-79-6	1.0	%	**70.3**	----	**64.6**	----	----
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	1.0	%	**56.8**	----	**61.3**	----	----
Anthracene-d10	1719-06-8	1.0	%	**68.0**	----	**68.0**	----	----
4-Terphenyl-d14	1718-51-0	1.0	%	**79.3**	----	**68.8**	----	----

Analytical Results

Sub-Matrix: TCLP LEACHATE (Matrix: WATER)				BUR_BH112_0.2	BUR_BH114_5.0	BUR_BH115_0.2	BUR_BH115_0.5	BUR_BH115_1.0
				21-Dec-2021 00:00	20-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
				ES2203558-011	ES2203558-012	ES2203558-013	ES2203558-014	ES2203558-015
				Result	Result	Result	Result	Result
EG005(ED093)C: Leachable Metals by ICPAES								
Lead	7439-92-1	0.1	mg/L	----	----	**0.3**	**28.7**	**8.5**
Nickel	7440-02-0	0.1	mg/L	<0.1	**0.2**	<0.1	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Benzo(a)pyrene	50-32-8	0.5	µg/L	----	----	<0.5	<0.5	----
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	1.0	%	----	----	**22.2**	**23.8**	----
2-Chlorophenol-D4	93951-73-6	1.0	%	----	----	**49.7**	**50.5**	----
2.4.6-Tribromophenol	118-79-6	1.0	%	----	----	**95.9**	**78.0**	----
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	1.0	%	----	----	**59.6**	**65.6**	----
Anthracene-d10	1719-06-8	1.0	%	----	----	**72.6**	**73.4**	----
4-Terphenyl-d14	1718-51-0	1.0	%	----	----	**75.1**	**73.6**	----

Analytical Results

Sub-Matrix: TCLP LEACHATE (Matrix: WATER)				BUR_BH116_0.2	BUR_BH117_0.2	BUR_BH123_0.3	BUR_BH125_0.2	D01_20211216
				21-Dec-2021 00:00	21-Dec-2021 00:00	18-Dec-2021 00:00	21-Dec-2021 00:00	16-Dec-2021 00:00
				ES2203558-016	ES2203558-017	ES2203558-018	ES2203558-019	ES2203558-020
				Result	Result	Result	Result	Result
EG005(ED093)C: Leachable Metals by ICPAES								
Lead	7439-92-1	0.1	mg/L	**0.1**	**0.2**	<0.1	<0.1	<0.1
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Benzo(a)pyrene	50-32-8	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	1.0	%	**23.0**	**22.7**	**27.8**	**26.7**	**28.0**
2-Chlorophenol-D4	93951-73-6	1.0	%	**49.4**	**50.2**	**61.5**	**64.3**	**55.7**
2.4.6-Tribromophenol	118-79-6	1.0	%	**75.9**	**73.4**	**76.4**	**78.8**	**102**
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	1.0	%	**63.6**	**64.4**	**66.5**	**68.1**	**53.8**
Anthracene-d10	1719-06-8	1.0	%	**69.8**	**71.6**	**71.6**	**74.3**	**86.8**
4-Terphenyl-d14	1718-51-0	1.0	%	**69.0**	**72.4**	**80.3**	**86.4**	**87.2**

Analytical Results

Sub-Matrix: TCLP LEACHATE (Matrix: WATER)				D04_20211217	D07_20211221	D08_20211221	----	----
				17-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	----	----
				ES2203558-021	ES2203558-022	ES2203558-023	--------	--------
				Result	Result	Result	----	----
EG005(ED093)C: Leachable Metals by ICPAES								
Lead	7439-92-1	0.1	mg/L	**0.1**	**0.1**	**0.3**	**----**	**----**
Nickel	7440-02-0	0.1	mg/L	**----**	**----**	<0.1	**----**	**----**
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Benzo(a)pyrene	50-32-8	0.5	µg/L	<0.5	<0.5	<0.5	**----**	**----**
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	1.0	%	**17.3**	**27.7**	**24.6**	**----**	**----**
2-Chlorophenol-D4	93951-73-6	1.0	%	**60.3**	**55.2**	**48.4**	**----**	**----**
2.4.6-Tribromophenol	118-79-6	1.0	%	**88.8**	**95.2**	**95.8**	**----**	**----**
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	1.0	%	**67.4**	**74.6**	**61.5**	**----**	**----**
Anthracene-d10	1719-06-8	1.0	%	**78.9**	**73.1**	**71.9**	**----**	**----**
4-Terphenyl-d14	1718-51-0	1.0	%	**79.0**	**73.5**	**74.1**	**----**	**----**

Surrogate Control Limits

Sub-Matrix: **TCLP LEACHATE**		Recovery Limits (%)	
		Low	High
EP075(SIM)S: Phenolic Compound Surrogates			
Phenol-d6	13127-88-3	10	44
2-Chlorophenol-D4	93951-73-6	14	94
2.4.6-Tribromophenol	118-79-6	17	125
EP075(SIM)T: PAH Surrogates			
2-Fluorobiphenyl	321-60-8	20	104
Anthracene-d10	1719-06-8	27	113
4-Terphenyl-d14	1718-51-0	32	112

ALS Environmental

QUALITY CONTROL REPORT

Work Order	: **ES2203558**	Page	: 1 of 4
Client	: **ENVIRONMENTAL RESOURCES MANAGEMENT (ERM)**	Laboratory	: Environmental Division Sydney
Contact	: MS JESSICA LAWRENCE	Contact	: Customer Services ES
Address	: LEVEL 15 309 KENT STREET SYDNEY NSW AUSTRALIA 2000	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: +61 02 8584 8888	Telephone	: +61-2-8784 8555
Project	: 0577577 - Burwood	Date Samples Received	: 02-Feb-2022
Order number	: ----	Date Analysis Commenced	: 04-Feb-2022
C-O-C number	: ----	Issue Date	: 09-Feb-2022
Sampler	: TRISTAN RODRIGUES		
Site	: ----		
Quote number	: EN/114		
No. of samples received	: 23		
No. of samples analysed	: 23		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Edwandy Fadjar	Organic Coordinator	Sydney Organics, Smithfield, NSW
Wisam Marassa	Inorganics Coordinator	Sydney Inorganics, Smithfield, NSW

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis. Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Key : Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot
CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
RPD = Relative Percentage Difference
# = Indicates failed QC

Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EG005(ED093)C: Leachable Metals by ICPAES (QC Lot: 4161486)									
ES2203453-001	Anonymous	EG005C: Lead	7439-92-1	0.1	mg/L	<0.1	<0.1	0.0	No Limit
		EG005C: Nickel	7440-02-0	0.1	mg/L	<0.1	<0.1	0.0	No Limit
ES2203558-010	BUR_BH111_0.5	EG005C: Lead	7439-92-1	0.1	mg/L	<0.1	<0.1	0.0	No Limit
		EG005C: Nickel	7440-02-0	0.1	mg/L	<0.1	<0.1	0.0	No Limit
EG005(ED093)C: Leachable Metals by ICPAES (QC Lot: 4161487)									
ES2203558-021	D04_20211217	EG005C: Lead	7439-92-1	0.1	mg/L	0.1	0.1	0.0	No Limit
		EG005C: Nickel	7440-02-0	0.1	mg/L	<0.1	<0.1	0.0	No Limit

Method Blank (MB) and Laboratory Control Sample (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Sample (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EN33: TCLP Leach - Inorganics/Non-Volatile Organics (Glass Vessel) (QCLot: 4155167)								
EN33a-G: Initial pH	----	0.1	pH Unit	1.0	----	----	----	----
EN33a-G: After HCl pH	----	0.1	pH Unit	1.0	----	----	----	----
EN33a-G: Final pH	----	0.1	pH Unit	1.0	----	----	----	----
EN33: TCLP Leach - Inorganics/Non-Volatile Organics (Glass Vessel) (QCLot: 4155168)								
EN33a-G: Initial pH	----	0.1	pH Unit	1.0	----	----	----	----
EN33a-G: After HCl pH	----	0.1	pH Unit	1.0	----	----	----	----
EN33a-G: Final pH	----	0.1	pH Unit	1.0	----	----	----	----
EN33: TCLP Leach - Inorganics/Non-Volatile Organics (Glass Vessel) (QCLot: 4155169)								
EN33a-G: Initial pH	----	0.1	pH Unit	1.0	----	----	----	----
EN33a-G: After HCl pH	----	0.1	pH Unit	1.0	----	----	----	----
EN33a-G: Final pH	----	0.1	pH Unit	1.0	----	----	----	----

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EG005(ED093)C: Leachable Metals by ICPAES (QCLot: 4161486)								
EG005C: Lead	7439-92-1	0.1	mg/L	<0.1	0.1 mg/L	107	80.0	118
EG005C: Nickel	7440-02-0	0.1	mg/L	<0.1	0.1 mg/L	102	83.0	115
EG005(ED093)C: Leachable Metals by ICPAES (QCLot: 4161487)								
EG005C: Lead	7439-92-1	0.1	mg/L	<0.1	0.1 mg/L	99.9	80.0	118
EG005C: Nickel	7440-02-0	0.1	mg/L	<0.1	0.1 mg/L	99.5	83.0	115
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 4157587)								
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	µg/L	<0.5	5 µg/L	67.8	63.3	117

Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

Sub-Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
				Concentration	MS	Low	High
EG005(ED093)C: Leachable Metals by ICPAES (QCLot: 4161486)							
ES2203453-002	Anonymous	EG005C: Lead	7439-92-1	1 mg/L	108	70.0	130
		EG005C: Nickel	7440-02-0	1 mg/L	106	70.0	130

Sub-Matrix: **WATER**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*Concentration*	*MS*	*Low*	*High*
EG005(ED093)C: Leachable Metals by ICPAES (QCLot: 4161487)							
ES2203558-022	D07_20211221	EG005C: Lead	7439-92-1	1 mg/L	102	70.0	130
		EG005C: Nickel	7440-02-0	1 mg/L	100	70.0	130

Sydney Laboratory Services

A division of A. D. Envirotech Australia Pty Ltd
A.C.N. 093 452 950
Unit 4/10-11 Millennium Court,
Silverwater 2128
Ph: (02) 9648-6669

Accreditation No.14664
Accredited for compliance
with ISO/IEC 17025 - Testing.

SAMPLE RECEIPT NOTIFICATION (SRN)

Contact: Thesan Naidoo / Stephen Bowly / Megan Lynch
Project name: 21.2041.WAC8
Number of samples: 13
COC number: 21.2041.WAC8
Turn around time: 72hr
Date: 29/04/2022
Time received: 7:00am
SLS Reference: 2201965
Estimated Report Delivery Date: 04/05/2022

Sample information

☑	All samples have been received and logged into LIMS.
☑	No mistakes in the COC
☑	Evidence of chilling for samples
N/A	Samples were preserved
N/A	Custody seal intact
☑	Samples were delivered within holding time
☑	Samples to be tested for volatiles had zero headspace
☑	All samples were received in good condition (no broken jars, labelled correctly…).
☐	Samples have been subcontracted

Comments

This report contains:
Sample receipt non-conformities
Summary of samples and requested analysis
Requested report deliverables

samples had to be confirmed with consultant

Asbestos Samples are reported as per the State EPA guidelines

Contact details

If you have any questions with respect to these samples please contact:
sls@ade.group

Trianah Tumbridge

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SAMPLE RECEIPT NOTIFICATION (SRN)

Laboratory Sample ID	Client Sample ID	6 Metal Suite	8 Metal Suite	BTEX	PAH	OCP/OPP	PCB	VOC	TRH (C10 - C40)	pH/EC	pH/pH fox	PFAS	Bulk	Dust	Dust Swab	Soil 65 grams	SOII 500 g NEPM	AAM
2022013027	BWN_BH105-0.4		X	X	X	X	X	X	X			X				X		
2022013028	BWN_BH105-0.5-0.7		X	X	X	X	X	X	X			X				X		
2022013029	BWN_BH105-1.3		X	X	X	X	X	X	X			X				X		
2022013030	BWN_BH105-2.8		X	X	X	X	X	X	X			X				X		
2022013031	BWN_BH106-0.4		X	X	X	X	X		X							X		
2022013032	BWN_BH106-0.7		X	X	X	X	X		X							X		
2022013033	BWN_BH106-1.1		X	X	X	X	X		X			X				X		
2022013034	BWN_BH106-1.7		X	X	X	X	X		X							X		
2022013035	BWN_BH108-0.3		X	X	X	X	X	X	X			X				X		
2022013036	BWN_BH108-0.5		X	X	X	X	X	X	X							X		
2022013037	BWN_BH108-0.9-1.0		X	X	X	X	X	X	X			X				X		
2022013038	BWN_BH108-2.0		X	X	X	X	X	X	X							X		
2022013039	BWN_BH108-BR		X	X	X	X	X		X									

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Accreditation No.14664
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This certificate of analysis contains General Comments and Analytical Results. Quality Control Report and Laboratory Quality Acceptance Criteria have been issued separately.

This report supersedes any previous report(s) with this reference. This document shall not be reproduced, except in full.

This report has been electronically signed by authorised signatories below.

Authorised By



Kaiyu Li

General Comments

Samples are analysed on as received basis. Sampling is not covered by NATA accreditation.

Where moisture determination has been performed, results are reported on dry weight basis.

Where the PQL of reported result differs from standard PQL, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Samples were analysed within holding time described by laboratory internal procedures if not stated otherwise. If samples delivered do not meet required analytical criteria, results will be marked with ^.

However surrogate standards are added to samples, results are not corrected for standards recoveries.

Analysis of VOC in water samples are performed on unfiltered waters (as received) spiked with surrogates and injection standards only.

SLS is responsible for all the information in the report, except that provided by the customer.

All sampling information included in the report has been provided by customer.

Information provided by the customer can affect the validity of the results.

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A division of A. D. Envirotech Australia Pty Ltd
Unit 4/10-11 Millennium Court
Silverwater 2128
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Certificate of Analysis

Contact:	Thesan Naidoo	**Date Reported:**	5/05/2022
Customer:	ADE Consulting Group	**No. of Samples:**	13
Address:	Unit 6 7 Millennium Court Silverwater NSW	**Date Received:**	2/05/2022
		Date of Analysis:	2/05/2022
Cust Ref:	21.2041		

Glossary:

*NATA accreditation does not cover the performance of this service
ND-not detected,
NT-not tested
INS-Insufficient material to perform the test
LCS-Laboratory Control Sample
RPD-Relative Percent Difference
N/A-Not Applicable
< less than
> greater than
PQL- Practical Quantitation Limit
^Analytical result might be compromised due to sample condition or holding time requirements
Reaction rate 1 = Slight
Reaction rate 2 = Moderate
Reaction rate 3 = High
Reaction rate 4 = Vigorous

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Certificate of Analysis

	Sample ID:	2022013136	2022013137	2022013138	2022013139	2022013140	2022013141	2022013142	2022013143	2022013144	2022013145	2022013146
	Sample Name	BWN_BH105-0.4	BWN_BH105-0.5-0.7	BWN_BH105-1.3	BWN_BH105-2.8	BWN_BH106-0.4	BWN_BH106-0.7	BWN_BH106-1.1	BWN_BH106-1.7	BWN_BH108-0.3	BWN_BH108-0.5	BWN_BH108-0.9-1.0
Parameter	*Units*	*PQL*										
ESA-MP-01,ICP-01												
Arsenic	mg/kg	5	12.3	6.1	<5.0	6.9	<5.0	14.9	32.4	19.6	10.5	24.1	12.8
Cadmium	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Chromium	mg/kg	5	<5.0	21.2	<5.0	<5.0	13.4	37.6	34.8	9.3	18.6	22.7	9.4
Copper	mg/kg	5	<5.0	37.8	<5.0	<5.0	24.9	14.5	<5.0	<5.0	<5.0	5.3	<5.0
Lead	mg/kg	10	<10.0	347.1	<10.0	<10.0	64.2	149.3	19.1	<10.0	<10.0	10.2	<10.0
Mercury	mg/kg	0.2	<0.20	1.00	<0.20	<0.20	0.20	0.21	<0.20	<0.20	<0.20	<0.20	<0.20
Nickel	mg/kg	10	<10.0	12.3	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Zinc	mg/kg	5	<5.0	344.0	<5.0	<5.0	64.8	26.7	<5.0	<5.0	<5.0	<5.0	<5.0
ESA-P-12													
% Moisture Content	%		15.3	21.4	15.1	7.5	6.9	39.4	20.8	22.3	18.3	23.3	19.4
ESA-P-ORG(12 - 15)													
Acenaphthene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Acenaphthylene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Anthracene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo[a]anthracene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo[a]pyrene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo[b]fluoranthene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo[g,h,i]perylene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo[k]fluoranthene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Chrysene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Dibenzo[a,h]anthracene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Fluoranthene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Fluorene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Indeno(1,2,3-cd)pyrene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Naphthalene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Phenanthrene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Pyrene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30

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Sum of Positive PAHs	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo(a)pyrene TEQ (Zero)	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo(a)pyrene TEQ (Half PQL)	mg/kg	0.3	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
Benzo(a)pyrene TEQ (PQL)	mg/kg	0.3	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73
p-Terphenyl-d14 (Surr.)	%		117	129	119	120	125	120	122	132	128	126	128
aldrin	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
a-BHC	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
b-BHC	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
d-BHC	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
g-BHC (lindane)	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
cis-chlordane	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
trans-chlordane	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
4,4'-DDD	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
4,4'-DDE	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
4,4'-DDT	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
dieldrin	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
endosulfan I	mg/kg	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
endosulfan II	mg/kg	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
endosulfan sulfate	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
endrin	mg/kg	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
endrin aldehyde	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
endrin ketone	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
heptachlor	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
heptachlor epoxide	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
hexachlorobenzene	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
methoxychlor	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TCMX (Surr.)	%		116	128	133	119	125	122	124	106	132	126	122
chlorpyrifos	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
chlorpyrifos methyl	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
diazinon	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
fenchlorphos	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
methyl parathion	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
prophos	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10

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tributylphosphorotrithioite	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor 1016	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1221	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1232	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1242	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1248	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1254	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1260	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
2-fluorobiphenyl (Surr.)	%		118	128	120	123	124	118	121	124	127	132	125
ESA-P-ORG16													
PFBA	ug/kg	5	<5	<5	<5	<5	-	-	<5	-	<5	-	<5
PFPeA	ug/kg	5	<5	<5	<5	<5	-	-	<5	-	<5	-	<5
PFBS	ug/kg	5	<5	<5	<5	<5	-	-	<5	-	<5	-	<5
PFHxA	ug/kg	5	<5	<5	<5	<5	-	-	<5	-	<5	-	<5
PFPeS	ug/kg	5	<5	<5	<5	<5	-	-	<5	-	<5	-	<5
PFHpA	ug/kg	5	<5	<5	<5	<5	-	-	<5	-	<5	-	<5
PFOA	ug/kg	5	<5	<5	<5	<5	-	-	<5	-	<5	-	<5
PFHpS	ug/kg	5	<5	<5	<5	<5	-	-	<5	-	<5	-	<5
PFOS	ug/kg	5	<5	<5	<5	<5	-	-	<5	-	<5	-	<5
PFDA	ug/kg	5	<5	<5	<5	<5	-	-	<5	-	<5	-	<5
PFUdA	ug/kg	5	<5	<5	<5	<5	-	-	<5	-	<5	-	<5
PFDoA	ug/kg	5	<5	<5	<5	<5	-	-	<5	-	<5	-	<5
PFTrDA	ug/kg	5	<5	<5	<5	<5	-	-	<5	-	<5	-	<5
PFTeDA	ug/kg	5	<5	<5	<5	<5	-	-	<5	-	<5	-	<5
PFNA	ug/kg	5	<5	<5	<5	<5	-	-	<5	-	<5	-	<5
PFHxS	ug/kg	5	<5	<5	<5	<5	-	-	<5	-	<5	-	<5
MPFBA (Surr.)	%		83	78	98	128	-	-	70	-	72	-	80
M3PFBS (Surr.)	%		73	94	101	125	-	-	80	-	82	-	121
MPFOS (Surr.)	%		109	128	127	123	-	-	119	-	128	-	119
MPFHxA (Surr.)	%		73	95	98	128	-	-	85	-	80	-	115
MPFOA (Surr.)	%		82	72	85	76	-	-	87	-	81	-	70
MPFUdA (Surr.)	%		81	109	119	102	-	-	126	-	91	-	121

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ESA-P-ORG(3,8)													
>C10-C16	mg/kg	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
>C16-C34	mg/kg	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
>C34-C40	mg/kg	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
>C10-C40 (Sum of total)	mg/kg	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
>C10-C14	mg/kg	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
>C15-C28	mg/kg	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
>C29-C36	mg/kg	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
>C10-C36 (Sum of total)	mg/kg	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
ESA-P-ORG07 & ORG08													
Benzene	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Toluene	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylbenzene	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
m.p Xylene	mg/kg	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
o Xylene	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Sum of BTEX	mg/kg	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total Xylenes	mg/kg	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Sum of MAHs	mg/kg	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
vNaphthalene	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
C6-C9 Conc.	mg/kg	35	<35	<35	<35	<35	<35	<35	<35	<35	<35	<35	<35
C6-C10 Conc.	mg/kg	35	<35	<35	<35	<35	<35	<35	<35	<35	<35	<35	<35
C6-C10 minus BTEX (F1)	mg/kg	35	<35	<35	<35	<35	<35	<35	<35	<35	<35	<35	<35
Vinyl Chloride	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	-	-	-	-	<0.50	<0.50	<0.50
trans-1,2-Dichloroethene	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	-	-	-	-	<0.50	<0.50	<0.50
Methylene chloride	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	-	-	-	-	<0.50	<0.50	<0.50
cis-1,2-Dichloroethene	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	-	-	-	-	<0.50	<0.50	<0.50
Bromochloromethane	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	-	-	-	-	<0.50	<0.50	<0.50
Chloroform	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	-	-	-	-	<0.50	<0.50	<0.50
1,1,1-Trichloroethane	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	-	-	-	-	<0.50	<0.50	<0.50
1,2-Dichloroethane	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	-	-	-	-	<0.50	<0.50	<0.50
Carbon tetrachloride	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	-	-	-	-	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	-	-	-	-	<0.50	<0.50	<0.50

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Tetrachloroethene	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	-	-	-	-	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	-	-	-	-	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	-	-	-	-	<0.50	<0.50	<0.50
1,2-Dichlorobenzene	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	-	-	-	-	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	-	-	-	-	<0.50	<0.50	<0.50
1,2,4-Trichlorobenzene	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	-	-	-	-	<0.50	<0.50	<0.50
Hexachlorobutadiene	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	-	-	-	-	<0.50	<0.50	<0.50
1,1-Dichloroethene	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	-	-	-	-	<0.50	<0.50	<0.50
Trichloroethene	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	-	-	-	-	<0.50	<0.50	<0.50
Chlorobenzene	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	-	-	-	-	<0.50	<0.50	<0.50
Sum of Chlorinated Hydrocarbons	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	-	-	-	-	<0.50	<0.50	<0.50
Other Chlorinated Hydrocarbon	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	-	-	-	-	<0.50	<0.50	<0.50
Toluene-d8 (Surr.)	%		116	136	114	111	126	105	100	105	129	138	134
1,2-Dichloroethane-d4 (Surr.)	%		98	108	98	97	99	80	83	80	110	108	109
4-Bromofluorobenzene (BFB) (Surr.)	%		96	117	93	93	103	83	82	81	105	122	115
Trifluorotoluene (Surr.)	%		127	131	124	120	139	113	109	114	136	133	137

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Certificate of Analysis

	Sample ID:	2022013147	2022013148
	Sample Name	BWN_BH108-2.0	BWN_BH108-BR

Parameter	Units	PQL		
ESA-MP-01,ICP-01				
Arsenic	mg/kg	5	<5.0	22.5
Cadmium	mg/kg	0.3	<0.30	<0.30
Chromium	mg/kg	5	<5.0	16.4
Copper	mg/kg	5	7.8	7.1
Lead	mg/kg	10	<10.0	<10.0
Mercury	mg/kg	0.2	<0.20	<0.20
Nickel	mg/kg	10	<10.0	<10.0
Zinc	mg/kg	5	<5.0	<5.0
ESA-P-12				
% Moisture Content	%		19.5	16.6
ESA-P-ORG(12 - 15)				
Acenaphthene	mg/kg	0.3	<0.30	<0.30
Acenaphthylene	mg/kg	0.3	<0.30	<0.30
Anthracene	mg/kg	0.3	<0.30	<0.30
Benzo[a]anthracene	mg/kg	0.3	<0.30	<0.30
Benzo[a]pyrene	mg/kg	0.3	<0.30	<0.30
Benzo[b]fluoranthene	mg/kg	0.3	<0.30	<0.30
Benzo[g,h,i]perylene	mg/kg	0.3	<0.30	<0.30
Benzo[k]fluoranthene	mg/kg	0.3	<0.30	<0.30
Chrysene	mg/kg	0.3	<0.30	<0.30
Dibenzo[a,h]anthracene	mg/kg	0.3	<0.30	<0.30
Fluoranthene	mg/kg	0.3	<0.30	<0.30
Fluorene	mg/kg	0.3	<0.30	<0.30
Indeno(1,2,3-cd)pyrene	mg/kg	0.3	<0.30	<0.30
Naphthalene	mg/kg	0.3	<0.30	<0.30
Phenanthrene	mg/kg	0.3	<0.30	<0.30
Pyrene	mg/kg	0.3	<0.30	<0.30

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Sum of Positive PAHs	mg/kg	0.3	<0.30	<0.30
Benzo(a)pyrene TEQ (Zero)	mg/kg	0.3	<0.30	<0.30
Benzo(a)pyrene TEQ (Half PQL)	mg/kg	0.3	0.36	0.36
Benzo(a)pyrene TEQ (PQL)	mg/kg	0.3	0.73	0.73
p-Terphenyl-d14 (Surr.)	%		124	133
aldrin	mg/kg	0.1	<0.10	<0.10
a-BHC	mg/kg	0.1	<0.10	<0.10
b-BHC	mg/kg	0.1	<0.10	<0.10
d-BHC	mg/kg	0.1	<0.10	<0.10
g-BHC (lindane)	mg/kg	0.1	<0.10	<0.10
cis-chlordane	mg/kg	0.1	<0.10	<0.10
trans-chlordane	mg/kg	0.1	<0.10	<0.10
4,4'-DDD	mg/kg	0.1	<0.10	<0.10
4,4'-DDE	mg/kg	0.1	<0.10	<0.10
4,4'-DDT	mg/kg	0.1	<0.10	<0.10
dieldrin	mg/kg	0.1	<0.10	<0.10
endosulfan I	mg/kg	0.2	<0.20	<0.20
endosulfan II	mg/kg	0.2	<0.20	<0.20
endosulfan sulfate	mg/kg	0.1	<0.10	<0.10
endrin	mg/kg	0.2	<0.20	<0.20
endrin aldehyde	mg/kg	0.1	<0.10	<0.10
endrin ketone	mg/kg	0.1	<0.10	<0.10
heptachlor	mg/kg	0.1	<0.10	<0.10
heptachlor epoxide	mg/kg	0.1	<0.10	<0.10
hexachlorobenzene	mg/kg	0.1	<0.10	<0.10
methoxychlor	mg/kg	0.1	<0.10	<0.10
TCMX (Surr.)	%		128	131
chlorpyrifos	mg/kg	0.1	<0.10	<0.10
chlorpyrifos methyl	mg/kg	0.1	<0.10	<0.10
diazinon	mg/kg	0.1	<0.10	<0.10
fenchlorphos	mg/kg	0.1	<0.10	<0.10
methyl parathion	mg/kg	0.1	<0.10	<0.10
prophos	mg/kg	0.1	<0.10	<0.10

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tributylphosphorotrithioite	mg/kg	0.1	<0.10	<0.10
Aroclor 1016	mg/kg	0.5	<0.50	<0.50
Aroclor 1221	mg/kg	0.5	<0.50	<0.50
Aroclor 1232	mg/kg	0.5	<0.50	<0.50
Aroclor 1242	mg/kg	0.5	<0.50	<0.50
Aroclor 1248	mg/kg	0.5	<0.50	<0.50
Aroclor 1254	mg/kg	0.5	<0.50	<0.50
Aroclor 1260	mg/kg	0.5	<0.50	<0.50
2-fluorobiphenyl (Surr.)	%		124	122
ESA-P-ORG(3,8)				
>C10-C16	mg/kg	50	<50	<50
>C16-C34	mg/kg	100	<100	<100
>C34-C40	mg/kg	100	<100	<100
>C10-C40 (Sum of total)	mg/kg	50	<50	<50
>C10-C14	mg/kg	50	<50	<50
>C15-C28	mg/kg	100	<100	<100
>C29-C36	mg/kg	100	<100	<100
>C10-C36 (Sum of total)	mg/kg	50	<50	<50
ESA-P-ORG07 & ORG08				
Benzene	mg/kg	0.5	<0.50	<0.50
Toluene	mg/kg	0.5	<0.50	<0.50
Ethylbenzene	mg/kg	0.5	<0.50	<0.50
m.p Xylene	mg/kg	1	<1.0	<1.0
o Xylene	mg/kg	0.5	<0.50	<0.50
Sum of BTEX	mg/kg	1	<1.0	<1.0
Total Xylenes	mg/kg	1	<1.0	<1.0
Styrene	mg/kg	0.5	<0.50	<0.50
Sum of MAHs	mg/kg	1	<1.0	<1.0
vNaphthalene	mg/kg	0.5	<0.50	<0.50
C6-C9 Conc.	mg/kg	35	<35	<35
C6-C10 Conc.	mg/kg	35	<35	<35
C6-C10 minus BTEX (F1)	mg/kg	35	<35	<35
Vinyl Chloride	mg/kg	0.5	<0.50	-

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trans-1,2-Dichloroethene	mg/kg	0.5	<0.50	-
Methylene chloride	mg/kg	0.5	<0.50	-
cis-1,2-Dichloroethene	mg/kg	0.5	<0.50	-
Bromochloromethane	mg/kg	0.5	<0.50	-
Chloroform	mg/kg	0.5	<0.50	-
1,1,1-Trichloroethane	mg/kg	0.5	<0.50	-
1,2-Dichloroethane	mg/kg	0.5	<0.50	-
Carbon tetrachloride	mg/kg	0.5	<0.50	-
1,1,2-Trichloroethane	mg/kg	0.5	<0.50	-
Tetrachloroethene	mg/kg	0.5	<0.50	-
1,1,1,2-Tetrachloroethane	mg/kg	0.5	<0.50	-
1,1,2,2-Tetrachloroethane	mg/kg	0.5	<0.50	-
1,2-Dichlorobenzene	mg/kg	0.5	<0.50	-
1,4-Dichlorobenzene	mg/kg	0.5	<0.50	-
1,2,4-Trichlorobenzene	mg/kg	0.5	<0.50	-
Hexachlorobutadiene	mg/kg	0.5	<0.50	-
1,1-Dichloroethene	mg/kg	0.5	<0.50	-
Trichloroethene	mg/kg	0.5	<0.50	-
Chlorobenzene	mg/kg	0.5	<0.50	-
Sum of Chlorinated Hydrocarbons	mg/kg	0.5	<0.50	-
Other Chlorinated Hydrocarbon	mg/kg	0.5	<0.50	-
Toluene-d8 (Surr.)	%		138	134
1,2-Dichloroethane-d4 (Surr.)	%		109	109
4-Bromofluorobenzene (BFB) (Surr.)	%		125	120
Trifluorotoluene (Surr.)	%		133	135

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Silverwater 2128
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Accreditation No.14664
Accredited for compliance with ISO/IEC 17025 - Testing.

This Quality Control Report contains results of QAQC samples analysis and the Laboratory Acceptance Criteria.

This report supersedes any previous report(s) with this reference. This document shall not be reproduced, except in full.

This report has been electronically signed by authorised signatories below.

Authorised By



Kaiyu Li

General Comments

Duplicate samples and matrix spike may not be prepared on smaller jobs, however are analysed at frequency. QAQC samples shown within the report as e.g. Batch Blank, Batch Matrix Spike were performed on samples not reported on that Certificate of Analysis.

Blank This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in the same manner as for samples.
Duplicate This is the interlaboratory split of a random sample from the processed batch
Matrix Spike A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample): This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class.
Surr. (Surrogate Spike) Surrogates are known additions to each sample, blank and matrix spike or LCS in a batch. Surrogates are chosen as a compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Blank shall be < PQL
Matrix Spikes and LCS: Generally 70-130% for inorganics/metals/PFAS, 60-140% for organics is acceptable. Matrix heterogeneity may result in matrix spike analyses falling outside these limits
RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:
Results <10 times the PQL : No Limit
Results between 10-20 times the PQL : RPD must lie between 0-50%
Results >20 times the PQL : RPD must lie between 0-30%
Surrogate Recoveries : Recoveries must lie between 50-150%

SLS is responsible for all the information in the report, except that provided by the customer.

All sampling information included in the report has been provided by customer.

Information provided by the customer can affect the validity of the results.

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Quality Control Report

Contact:	Thesan Naidoo	**Date Reported:**	5/05/2022
Customer:	ADE Consulting Group	**No. of Samples:**	25
Address:	Unit 6 7 Millennium Court Silverwater NSW	**Date Received:**	2/05/2022
		Date of Analysis:	2/05/2022

Cust Ref: 21.2041

Glossary:

*NATA accreditation does not cover the performance of this service
ND-not detected,
NT-not tested
INS-Insufficient material to perform the test
LCS-Laboratory Control Sample
RPD-Relative Percent Difference
N/A-Not Applicable
< less than
> greater than
PQL- Practical Quantitation Limit
^Analytical result might be compromised due to sample condition or holding time requirements
Reaction rate 1 = Slight
Reaction rate 2 = Moderate
Reaction rate 3 = High
Reaction rate 4 = Vigorous

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Quality Control Report

	Sample ID:	D202201313701	D202201314501
	Sample Name	BWN_BH105-0.5-0.7	BWN_BH108-0.5
Parameter	Units	PQL	
ESA-P-ORG7 & ORG8			
Benzene			Pass	Pass
Toluene			Pass	Pass
Ethylbenzene			Pass	Pass
m.p Xylene			Pass	Pass
o Xylene			Pass	Pass
Styrene			Pass	Pass
vNaphthalene			Pass	Pass
C6-C9			Pass	Pass
C6-C10			Pass	Pass
Vinyl Chloride			Pass	Pass
trans-1,2-Dichloroethene			Pass	Pass
Methylene chloride			Pass	Pass
cis-1,2-Dichloroethene			Pass	Pass
Bromochloromethane			Pass	Pass
Chloroform			Pass	Pass
1,1,1-Trichloroethane			Pass	Pass
1,2-Dichloroethane			Pass	Pass
Carbon tetrachloride			Pass	Pass
1,1,2-Trichloroethane			Pass	Pass
Tetrachloroethene			Pass	Pass
1,1,1,2-Tetrachloroethane			Pass	Pass
1,1,2,2-Tetrachloroethane			Pass	Pass
1,2-Dichlorobenzene			Pass	Pass
1,4-Dichlorobenzene			Pass	Pass
1,2,4-Trichlorobenzene			Pass	Pass
Hexachlorobutadiene			Pass	Pass
1,1-Dichloroethene			Pass	Pass

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Trichloroethene			Pass	Pass
Chlorobenzene			Pass	Pass
Toluene-d8	%		140	132
1,2-Dichloroethane-d4	%		106	103
4-Bromofluorobenzene (BFB)	%		114	105
Trifluorotoluene (Surr.)	%		133	135

		Sample ID:	**D202201313702**	**D202201314502**
		Sample Name	**BWN_BH105-0.5-0.7**	**BWN_BH108-0.5**
Parameter	***Units***	***PQL***		
ESA-P-ORG(12 - 15)				
Acenaphthene			Pass	Pass
Acenaphthylene			Pass	Pass
Anthracene			Pass	Pass
Benzo[a]anthracene			Pass	Pass
Benzo[a]pyrene			Pass	Pass
Benzo[b]fluoranthene			Pass	Pass
Benzo[g,h,i]perylene			Pass	Pass
Benzo[k]fluoranthene			Pass	Pass
Chrysene			Pass	Pass
Dibenzo[a,h]anthracene			Pass	Pass
Fluoranthene			Pass	Pass
Fluorene			Pass	Pass
Indeno(1,2,3-cd)pyrene			Pass	Pass
Naphthalene			Pass	Pass
Phenanthrene			Pass	Pass
Pyrene			Pass	Pass
p-Terphenyl-d14 (Surr.)	%		130	137
aldrin			Pass	Pass
a-BHC			Pass	Pass
b-BHC			Pass	Pass
d-BHC			Pass	Pass
g-BHC (lindane)			Pass	Pass
cis-chlordane			Pass	Pass

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trans-chlordane			Pass	Pass
4,4'-DDD			Pass	Pass
4,4'-DDE			Pass	Pass
4,4'-DDT			Pass	Pass
dieldrin			Pass	Pass
endosulfan I			Pass	Pass
endosulfan II			Pass	Pass
endosulfan sulfate			Pass	Pass
endrin			Pass	Pass
endrin aldehyde			Pass	Pass
endrin ketone			Pass	Pass
heptachlor			Pass	Pass
heptachlor epoxide			Pass	Pass
hexachlorobenzene			Pass	Pass
methoxychlor			Pass	Pass
TCMX (Surr.)	%		126	128
chlorpyrifos			Pass	Pass
chlorpyrifos methyl			Pass	Pass
diazinon			Pass	Pass
fenchlorphos			Pass	Pass
methyl parathion			Pass	Pass
prophos			Pass	Pass
tributylphosphorotrithioite			Pass	Pass
Aroclor 1016			Pass	Pass
Aroclor 1221			Pass	Pass
Aroclor 1232			Pass	Pass
Aroclor 1242			Pass	Pass
Aroclor 1248			Pass	Pass
Aroclor 1254			Pass	Pass
Aroclor 1260			Pass	Pass
2-fluorobiphenyl (Surr.)	%		119	130

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	Sample ID:	D202201313703	D202201314503
	Sample Name	BWN_BH105-0.5-0.7	BWN_BH108-0.5
Parameter	Units	PQL	
ESA-P-ORG(3,8)			
>C10-C16			Pass	Pass
>C16-C34			Pass	Pass
>C34-C40			Pass	Pass
>C10-C14			Pass	Pass
>C15-C28			Pass	Pass
>C29-C36			Pass	Pass

	Sample ID:	D202201313704
	Sample Name	BWN_BH105-0.5-0.7
Parameter	Units	PQL	
ESA-P-ORG16			
PFBA			Pass
PFPeA			Pass
PFBS			Pass
PFHxA			Pass
PFPeS			Pass
PFHpA			Pass
PFOA			Pass
PFHpS			Pass
PFOS			Pass
PFDA			Pass
PFUdA			Pass
PFDoA			Pass
PFTrDA			Pass
PFTeDA			Pass
PFNA			Pass
PFHxS			Pass
MPFBA	%		70
M3PFBS	%		73

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MPFOS	%		105
MPFHxA	%		71
MPFOA	%		79
MPFUdA	%		98

		Sample ID:	**D202201313705**	**D202201314601**
		Sample Name	**BWN_BH105-0.5-0.7**	**BWN_BH108-0.9-1.0**
Parameter	***Units***	***PQL***		
ESA-MP-01,ICP-01				
Arsenic			Pass	Pass
Cadmium			Pass	Pass
Chromium			Pass	Pass
Copper			Pass	Pass
Lead			Pass	Pass
Mercury			Pass	Pass
Nickel			Pass	Pass
Zinc			Pass	Pass

		Sample ID:	**D202201339801**
		Sample Name	**220502 NDD TR01**
Parameter	***Units***	***PQL***	
ESA-P-ORG16			
PFBA			Pass
PFPeA			Pass
PFBS			Pass
PFHxA			Pass
PFPeS			Pass
PFHpA			Pass
PFOA			Pass
PFHpS			Pass
PFOS			Pass
PFDA			Pass
PFUdA			Pass
PFDoA			Pass
PFTrDA			Pass

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PFTeDA			Pass
PFNA			Pass
PFHxS			Pass
MPFBA	%		75
M3PFBS	%		80
MPFOS	%		91
MPFHxA	%		80
MPFOA	%		88
MPFUdA	%		84

Sample ID: **Q2022003150**

Sample Name

Parameter	***Units***	***PQL***	VOCs MB Vic - Soil
ESA-P-ORG7 & ORG8			
Benzene	mg/kg	0.5	<0.50
Toluene	mg/kg	0.5	<0.50
Ethylbenzene	mg/kg	0.5	<0.50
m.p Xylene	mg/kg	1	<1.0
o Xylene	mg/kg	0.5	<0.50
Styrene	mg/kg	0.5	<0.50
vNaphthalene	mg/kg	0.5	<0.50
C6-C9	mg/kg	35	<35
C6-C10	mg/kg	35	<35
Vinyl Chloride	mg/kg	0.5	<0.50
trans-1,2-Dichloroethene	mg/kg	0.5	<0.50
Methylene chloride	mg/kg	0.5	<0.50
cis-1,2-Dichloroethene	mg/kg	0.5	<0.50
Bromochloromethane	mg/kg	0.5	<0.50
Chloroform	mg/kg	0.5	<0.50
1,1,1-Trichloroethane	mg/kg	0.5	<0.50
1,2-Dichloroethane	mg/kg	0.5	<0.50
Carbon tetrachloride	mg/kg	0.5	<0.50
1,1,2-Trichloroethane	mg/kg	0.5	<0.50

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Tetrachloroethene	mg/kg	0.5	<0.50
1,1,1,2-Tetrachloroethane	mg/kg	0.5	<0.50
1,1,2,2-Tetrachloroethane	mg/kg	0.5	<0.50
1,2-Dichlorobenzene	mg/kg	0.5	<0.50
1,4-Dichlorobenzene	mg/kg	0.5	<0.50
1,2,4-Trichlorobenzene	mg/kg	0.5	<0.50
Hexachlorobutadiene	mg/kg	0.5	<0.50
1,1-Dichloroethene	mg/kg	0.5	<0.50
Trichloroethene	mg/kg	0.5	<0.50
Chlorobenzene	mg/kg	0.5	<0.50

Sample ID: **Q2022003151**

Sample Name

Parameter	***Units***	***PQL***	VOCs LCS Vic - Soil
ESA-P-ORG7 & ORG8			
1,1-Dichloroethene	%		106
Benzene	%		106
Trichloroethene	%		90
Toluene	%		106
Chlorobenzene	%		107
Toluene-d8 (Surr.)	%		98
1,2-Dichloroethane-d4 (Surr.)	%		94
4-Bromofluorobenzene (BFB) (Surr.)	%		87
Trifluorotoluene (Surr.)	%		105

Sample ID: **Q2022003152**

Sample Name

Parameter	***Units***	***PQL***	PCB Blank - Soil
ESA-P-ORG(12 - 15)			
Acenaphthene	mg/kg	0.3	<0.30
Acenaphthylene	mg/kg	0.3	<0.30
Anthracene	mg/kg	0.3	<0.30
Benzo[a]anthracene	mg/kg	0.3	<0.30
Benzo[a]pyrene	mg/kg	0.3	<0.30
Benzo[b]fluoranthene	mg/kg	0.3	<0.30

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Benzo[g,h,i]perylene	mg/kg	0.3	<0.30
Benzo[k]fluoranthene	mg/kg	0.3	<0.30
Chrysene	mg/kg	0.3	<0.30
Dibenzo[a,h]anthracene	mg/kg	0.3	<0.30
Fluoranthene	mg/kg	0.3	<0.30
Fluorene	mg/kg	0.3	<0.30
Indeno(1,2,3-cd)pyrene	mg/kg	0.3	<0.30
Naphthalene	mg/kg	0.3	<0.30
Phenanthrene	mg/kg	0.3	<0.30
Pyrene	mg/kg	0.3	<0.30
aldrin	mg/kg	0.1	<0.10
a-BHC	mg/kg	0.1	<0.10
b-BHC	mg/kg	0.1	<0.10
d-BHC	mg/kg	0.1	<0.10
g-BHC (lindane)	mg/kg	0.1	<0.10
cis-chlordane	mg/kg	0.1	<0.10
trans-chlordane	mg/kg	0.1	<0.10
4,4'-DDD	mg/kg	0.1	<0.10
4,4'-DDE	mg/kg	0.1	<0.10
4,4'-DDT	mg/kg	0.1	<0.10
dieldrin	mg/kg	0.1	<0.10
endosulfan I	mg/kg	0.2	<0.20
endosulfan II	mg/kg	0.2	<0.20
endosulfan sulfate	mg/kg	0.1	<0.10
endrin	mg/kg	0.2	<0.20
endrin aldehyde	mg/kg	0.1	<0.10
endrin ketone	mg/kg	0.1	<0.10
heptachlor	mg/kg	0.1	<0.10
heptachlor epoxide	mg/kg	0.1	<0.10
hexachlorobenzene	mg/kg	0.1	<0.10
methoxychlor	mg/kg	0.1	<0.10
chlorpyrifos	mg/kg	0.1	<0.10
chlorpyrifos methyl	mg/kg	0.1	<0.10

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diazinon	mg/kg	0.1	<0.10
fenchlorphos	mg/kg	0.1	<0.10
methyl parathion	mg/kg	0.1	<0.10
prophos	mg/kg	0.1	<0.10
tributylphosphorotrithioite	mg/kg	0.1	<0.10
Aroclor 1016	mg/kg	0.5	<0.50
Aroclor 1221	mg/kg	0.5	<0.50
Aroclor 1232	mg/kg	0.5	<0.50
Aroclor 1242	mg/kg	0.5	<0.50
Aroclor 1248	mg/kg	0.5	<0.50
Aroclor 1254	mg/kg	0.5	<0.50
Aroclor 1260	mg/kg	0.5	<0.50

Sample ID: **Q2022003153**

Sample Name

Parameter	***Units***	***PQL***	PCB Blank Sp - Soil
ESA-P-ORG(12 - 15)			
Acenaphthene	%		127
Anthracene	%		122
Fluoranthene	%		109
Naphthalene	%		113
Phenanthrene	%		116
Pyrene	%		113
p-Terphenyl-d14 (Surr.)	%		129
aldrin	%		107
endrin	%		133
hexachlorobenzene	%		96
TCMX (Surr.)	%		125
chlorpyrifos	%		117
diazinon	%		116
2-fluorobiphenyl (Surr.)	%		134
Aroclor 1016	%		114

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Sample ID: **Q2022003154**

Sample Name

Parameter	*Units*	*PQL*	TRH Blank-Soil
ESA-P-ORG(3,8)			
>C10-C16	mg/kg	50	<50
>C16-C34	mg/kg	100	<100
>C34-C40	mg/kg	100	<100
>C10-C14	mg/kg	50	<50
>C15-C28	mg/kg	100	<100
>C29-C36	mg/kg	100	<100

Sample ID: **Q2022003155**

Sample Name

Parameter	*Units*	*PQL*	TRH Blank Spike-Soil
ESA-P-ORG(3,8)			
>C10-C16	%		100
>C10-C14	%		98

Sample ID: **Q2022003156**

Sample Name

Parameter	*Units*	*PQL*	PFAS Blank - Soil
ESA-P-ORG16			
PFBA	ug/kg	5	<5
PFPeA	ug/kg	5	<5
PFBS	ug/kg	5	<5
PFHxA	ug/kg	5	<5
PFPeS	ug/kg	5	<5
PFHpA	ug/kg	5	<5
PFOA	ug/kg	5	<5
PFHpS	ug/kg	5	<5
PFOS	ug/kg	5	<5
PFDA	ug/kg	5	<5
PFUdA	ug/kg	5	<5
PFDoA	ug/kg	5	<5

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PFTrDA	ug/kg	5	<5
PFTeDA	ug/kg	5	<5
PFNA	ug/kg	5	<5
PFHxS	ug/kg	5	<5
MPFBA (Surr.)	%		75
M3PFBS (Surr.)	%		72
MPFOS (Surr.)	%		109
MPFHxA (Surr.)	%		78
MPFOA (Surr.)	%		79
MPFUdA (Surr.)	%		129

Sample ID: **Q2022003157**

Sample Name

Parameter	***Units***	***PQL***	PFAS Blank Sp - Soil
ESA-P-ORG16			
PFBA	%		111
PFPeA	%		105
PFBS	%		114
PFHxA	%		128
PFPeS	%		112
PFHpA	%		111
PFOA	%		114
PFHpS	%		114
PFOS	%		99
PFDA	%		73
PFUdA	%		127
PFDoA	%		129
PFTrDA	%		115
PFTeDA	%		101
PFNA	%		114
PFHxS	%		105
MPFBA (Surr.)	%		70
M3PFBS (Surr.)	%		80
MPFOS (Surr.)	%		106

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MPFHxA (Surr.)	%		79
MPFOA (Surr.)	%		78
MPFUdA (Surr.)	%		82

Sample ID: **Q2022003158**

Sample Name

Parameter	*Units*	*PQL*	Metals Blank - Soil
ESA-MP-01,ICP-01			
Arsenic	mg/kg	5	<5.0
Cadmium	mg/kg	0.3	<0.30
Chromium	mg/kg	5	<5.0
Copper	mg/kg	5	<5.0
Lead	mg/kg	10	<10.0
Mercury	mg/kg	0.2	<0.20
Nickel	mg/kg	10	<10.0
Zinc	mg/kg	5	<5.0

Sample ID: **Q2022003159**

Sample Name

Parameter	*Units*	*PQL*	Metals Blank Sp-Soil
ESA-MP-01,ICP-01			
Arsenic	%		86
Cadmium	%		101
Chromium	%		90
Copper	%		90
Lead	%		98
Mercury	%		100
Nickel	%		94
Zinc	%		100

Sample ID: **S202201313601**

Sample Name **BWN_BH105-0.4**

Parameter	*Units*	*PQL*	
ESA-P-ORG-07 & 08			
1,1-Dichloroethene	%		102

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Benzene	%		106
Trichloroethene	%		89
Toluene	%		106
Chlorobenzene	%		108
Toluene-d8 (Surr.)	%		98
1,2-Dichloroethane-d4 (Surr.)	%		92
4-Bromofluorobenzene (Surr.)	%		85
Trifluorotoluene (Surr.)	%		106

Sample ID: **S202201313602**

Sample Name **BWN_BH105-0.4**

Parameter	*Units*	*PQL*	
ESA-P-ORG(12 - 15)			
Acenaphthene	%		127
Anthracene	%		125
Fluoranthene	%		115
Naphthalene	%		115
Phenanthrene	%		119
Pyrene	%		119
p-Terphenyl-d14 (Surr.)	%		133
aldrin	%		111
endrin	%		139
hexachlorobenzene	%		106
TCMX (Surr.)	%		139
chlorpyrifos	%		130
diazinon	%		118
Aroclor 1016	%		115
2-fluorobiphenyl (Surr.)	%		136

Sample ID: **S202201313603**

Sample Name **BWN_BH105-0.4**

Parameter	*Units*	*PQL*	
ESA-P-ORG(3,8)			
>C10-C16	%		104
>C10-C14	%		102

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Sample ID:	**S202201313604**
Sample Name	**BWN_BH105-0.4**

Parameter	*Units*	*PQL*	
ESA-P-ORG16			
PFBA	%		129
PFPeA	%		128
PFBS	%		123
PFHxA	%		121
PFPeS	%		129
PFHpA	%		122
PFOA	%		121
PFHpS	%		129
PFOS	%		122
PFDA	%		71
PFUdA	%		71
PFDoA	%		82
PFTrDA	%		108
PFTeDA	%		108
PFNA	%		129
PFHxS	%		102
MPFBA (Surr.)	%		79
M3PFBS (Surr.)	%		81
MPFOS (Surr.)	%		92
MPFHxA (Surr.)	%		71
MPFOA (Surr.)	%		76
MPFUdA (Surr.)	%		109

Sample ID:	**S202201313605**
Sample Name	**BWN_BH105-0.4**

Parameter	*Units*	*PQL*	
ESA-MP-01,ICP-01			
Arsenic	%		95
Cadmium	%		109
Chromium	%		99

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Copper	%		99
Lead	%		106
Mercury	%		105
Nickel	%		102
Zinc	%		111

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A.B.N. 52 093 452 950

Analysis report: 21.2041_WAC8
Laboratory LOT NO: 2201965

Date Received:	29.04.2022
Date Analysed:	04.05.2022
Report Date:	04.05.2022
Client:	ADE Consulting Group
Job Location:	AFJV_BWN_SWS
Analytical method:	AS 4964-2004 "Method for the qualitative identification of asbestos in bulk samples" in conjunction with AD Envirotech's ABI Methods for Polarised Light Microscopy with dispersion staining

Analysis performed by:

Sifan Xu
Approved asbestos identifier

Results Authorised By:

Kim Foley
Approved Signatory

Accreditation No.14664.
Accredited for compliance with ISO/IEC 17025 - Testing.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Tests not covered by NATA are denoted with *.

General Comments:

Sydney Laboratory Services is responsible for all the information in the report, except that provided by the customer. All sampling information included in the report has been provided by the client
Information provided by the client can affect the validity of the results.
Sample analysed as received.
Samples are stored for minimum period of 1 month if longer time is not advised by client.

Accreditation No.14664.
Accredited for compliance with ISO/IEC 17025 - Testing.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Tests not covered by NATA are denoted with *.

Client Sample ID.	Laboratory Sample No.	Sample Description/Matrix	Sample Dimensions (cm) unless stated otherwise	Result	Comments
BWN_BH105-0.4	2022013136	Soil	62 grams	No Chrysotile asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Amosite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Crocidolite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
BWN_BH105-0.5-0.7	2022013137	Soil	39 grams	No Chrysotile asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Amosite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Crocidolite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
BWN_BH105-1.3	2022013138	Soil	36 grams	No Chrysotile asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Amosite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Crocidolite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
BWN_BH105-2.8	2022013139	Soil	53 grams	No Chrysotile asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Amosite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Crocidolite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
BWN_BH106-0.4	2022013140	Soil	79 grams	No Chrysotile asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Amosite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Crocidolite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
BWN_BH106-0.7	2022013141	Soil	30 grams	No Chrysotile asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Amosite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Crocidolite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
BWN_BH106-1.1	2022013142	Soil	53 grams	No Chrysotile asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Amosite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Crocidolite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil

Client Sample ID.	Laboratory Sample No.	Sample Description/Matrix	Sample Dimensions (cm) unless stated otherwise	Result	Comments
BWN_BH106-1.7	2022013143	Soil	56 grams	No Chrysotile asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Amosite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Crocidolite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
BWN_BH108-0.3	2022013144	Soil	50 grams	No Chrysotile asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Amosite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Crocidolite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
BWN_BH108-0.5	2022013145	Soil	67 grams	No Chrysotile asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Amosite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Crocidolite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
BWN_BH108-0.9-1.0	2022013146	Soil	47 grams	No Chrysotile asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Amosite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Crocidolite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
BWN_BH108-2.0	2022013147	Soil	44 grams	No Chrysotile asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Amosite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Crocidolite asbestos found at reporting limit of 0.1 g/kg.	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil

ADE CONSULTING GROUP
SOLUTIONS THROUGH INNOVATION

ESA-F-02
Chain of Custody (Internal)

Date Printed: 28/04/2022

A

Document Revision Date: 30.06.2020

ESA-F-02 COC - Chain Of Custody (Internal: Sydney Laboratory Services)

ADE CONSULTING GROUP
SOLUTIONS THROUGH INNOVATION

PROJECT:	AF JV_BWN-WAC1
PROJECT NUMBER - INVOICE NUMBER	21.2041
SAMPLES DELIVERED BY:	ADE Consulting Group 6/7 Millennium Ct, Silverwater NSW 2128
SAMPLERS:	Megan Lynch
TURNAROUND:	24h: 48h: 72h: X 4 WORKING DAYS:
SAMPLING DATE:	23/04/2022
AFTER TEST STORAGE:	ROOM TEMP: ☐ FRIDGE: X FREEZER: ☐ >>4 WEEKS: ☐ OTHER: ☐
REPORT FORMAT:	HARD COPY: ☐ E-MAIL: X
CONSULTANTS SIGNATURE:	CONSULTANT E-MAIL: stephen.bowly@ade.group megan.lynch@ade.group
PROJECT MANAGERS SIGNATURE:	PROJECT MANAGERS E-MAIL: thesan.naidoo@ade.group

LABORATORY REFERENCE NO. (Lab use ONLY):	21.2041
RECEIVED BY:	SIGNATURE:
SAMPLES: 2 CHILLED: ~~☐~~	PRESERVED: ~~☐~~ PRESERVATION METHOD: X CUSTODY SEAL INTACT: ☐
MINIMAL HEADSPACE : ~~☐~~	WITHIN HOLDING TIME: ☐
DATE: 29-04-22	TIME: 7:00 TEMPERATURE UPON RECEIPT: °C
LIMS LOT NO. 220937	LIMS/EXCEL SIGNATURE: COMMENTS:

SAMPLE DATA				CONTAINER DATA		ANALYSES REQUIRED																		NOTES
LIMS Sample ID (Lab Use)	Sample ID (ADE)	MATRIX	SAMPLE DATE	TYPE & PRESERVATIVE	NO.	pH/pH fox	BTEXN	8 Metal Suite	PAH	PCB	OCC/OPP	TCLP	VOC	PFAS	TRH	TOC	CEC	Ph/EC	Asbestos 65g					POTENTIAL HAZARDOUS CONTAMINANTS: ☐ ASBESTOS ☐ HYDROCARBONS ☐ LEAD/ARSENIC ☐ NO KNOWN CONTAMINATION ☐ OTHER:_____
220937																								LAB PLEASE *EMAIL COC RECEIPT: ☐
956	BWN_TS	water	23/04/2022				x																	Sample Comments
957	BWN_TB	water	23/04/2022				x																	

Comments:

Container Type and Preservative: P = Unpreserved Plastic; PN = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; PNA = Sodium Hydroxide Preserved Plastic; PC = HCl preserved Plastic; VC = Vial HCl Preserved; SP = Sulfuric Preserved Plastic; VB = Vial Sodium Bisulphate Preserved; VS = Vial Sulfuric Preserved; V = Unpreserved Vial; G = Amber Glass Unpreserved; SG = Sulfuric Preserved Amber Glass; F = Formaldehyde Preserved Glass; HS = HCl preserved Speciation bottle; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottle; ST = Sterile Bottle; J = Unpreserved Glass Jar; ASS = Plastic Bag for Acid Sulfate Soils; B = Unpreserved Bag.

Due: 04-05-22

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Sydney Laboratory Services

A division of A. D. Envirotech Australia Pty Ltd
A.C.N. 093 452 950
Unit 4/10-11 Millennium Court,
Silverwater 2128
Ph: (02) 9648-6669

Accreditation No.14664
Accredited for compliance with ISO/IEC 17025 - Testing.

SAMPLE RECEIPT NOTIFICATION (SRN)

Contact: Thesan Naidoo
Project name: 21.2041 WAC1
Number of samples: 2
COC number: 21.2041 WAC1
Turn around time: 72 hours
Date: 29.04.2022
Time received: 7:00 AM
SLS Reference: 2201932
Estimated Report Delivery Date: 04.05.2022

Sample information

☑	All samples have been received and logged into LIMS.
☑	No mistakes in the COC
☑	Evidence of chilling for samples
N/A	Samples were preserved
N/A	Custody seal intact
☑	Samples were delivered within holding time
☑	Samples to be tested for volatiles had zero headspace
☑	All samples were received in good condition (no broken jars, labelled correctly…).
☐	Samples have been subcontracted

Comments

This report contains:
Sample reciept non-conformities
Summary of samples and requested analysis
Requested report deliverables

Asbestos Samples are reported as per the State EPA guidelines

Contact details

If you have any questions with respect to these samples please contact:
sls@ade.group

Krista Johnston

Sydney Laboratory Services

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Silverwater 2128
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SAMPLE RECEIPT NOTIFICATION (SRN)

Laboratory Sample ID	Client Sample ID	6 Metal Suite	8 Metal Suite	BTEX	PAH	OCP/OPP	PCB	vTRH	TRH	pH/EC	pH/pH fox	PFAS	Bulk	Dust	Dust Swab	Soil 65 grams	SOIl 500 g NEPM	AAM
2022012956	BWN_TB			X														
2022012957	BWN_TS			X														

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Accreditation No.14664
Accredited for compliance with ISO/IEC 17025 - Testing.

This certificate of analysis contains General Comments and Analytical Results. Quality Control Report and Laboratory Quality Acceptance Criteria have been issued separately.

This report supersedes any previous report(s) with this reference. This document shall not be reproduced, except in full.

This report has been electronically signed by authorised signatories below.

Authorised By

Kaiyu Li

General Comments

Samples are analysed on as received basis. Sampling is not covered by NATA accreditation.

Where moisture determination has been performed, results are reported on dry weight basis.

Where the PQL of reported result differs from standard PQL, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Samples were analysed within holding time described by laboratory internal procedures if not stated otherwise. If samples delivered do not meet required analytical criteria, results will be marked with ^.

However surrogate standards are added to samples, results are not corrected for standards recoveries.

Analysis of VOC in water samples are performed on unfiltered waters (as received) spiked with surrogates and injection standards only.

SLS is responsible for all the information in the report, except that provided by the customer.

All sampling information included in the report has been provided by customer.

Information provided by the customer can affect the validity of the results.

Certificate of Analysis

Contact:	Thesan Naidoo	**Date Reported:**	4/05/2022
Customer:	ADE Consulting Group	**No. of Samples:**	2
Address:	Unit 6 7 Millennium Court Silverwater NSW	**Date Received:**	29/04/2022
		Date of Analysis:	29/04/2022

Cust Ref: 21.2041

Glossary:

*NATA accreditation does not cover the performance of this service
ND-not detected,
NT-not tested
INS-Insufficient material to perform the test
LCS-Laboratory Control Sample
RPD-Relative Percent Difference
N/A-Not Applicable
< less than
> greater than
PQL- Practical Quantitation Limit
^Analytical result might be compromised due to sample condition or holding time requirements
Reaction rate 1 = Slight
Reaction rate 2 = Moderate
Reaction rate 3 = High
Reaction rate 4 = Vigorous

Certificate of Analysis

	Sample ID:	2022012956	2022012957
	Sample Name	BWN_TB	BWN_TS
Parameter	Units	PQL	
ESA-P-ORG08 & ORG10			
Benzene		1	<1 ug/L	91%
Toluene		1	<1 ug/L	80%
Ethylbenzene		1	<1 ug/L	76%
m,p Xylene		2	<2 ug/L	78%
o Xylene		1	<1 ug/L	79%
Fluorobenzene (Surr.)	%		114	77

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A division of A. D. Envirotech Australia Pty Ltd
A.C.N. 093 452 950
Unit 4/10-11 Millennium Court,
Silverwater 2128
Ph: (02) 9648-6669

Accreditation No.14664
Accredited for compliance with ISO/IEC 17025 - Testing.

This Quality Control Report contains results of QAQC samples analysis and the Laboratory Acceptance Criteria.

This report supersedes any previous report(s) with this reference. This document shall not be reproduced, except in full.

This report has been electronically signed by authorised signatories below.

Authorised By

Kaiyu Li

General Comments

Duplicate samples and matrix spike may not be prepared on smaller jobs, however are analysed at frequency. QAQC samples shown within the report as e.g. Batch Blank, Batch Matrix Spike were performed on samples not reported on that Certificate of Analysis.

Blank This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in the same manner as for samples.
Duplicate This is the interlaboratory split of a random sample from the processed batch
Matrix Spike A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample): This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class.
Surr. (Surrogate Spike) Surrogates are known additions to each sample, blank and matrix spike or LCS in a batch. Surrogates are chosen as a compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Blank shall be < PQL
Matrix Spikes and LCS: Generally 70-130% for inorganics/metals/PFAS, 60-140% for organics is acceptable. Matrix heterogeneity may result in matrix spike analyses falling outside these limits
RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:
Results <10 times the PQL : No Limit
Results between 10-20 times the PQL : RPD must lie between 0-50%
Results >20 times the PQL : RPD must lie between 0-30%
Surrogate Recoveries : Recoveries must lie between 50-150%

SLS is responsible for all the information in the report, except that provided by the customer.

All sampling information included in the report has been provided by customer.

Information provided by the customer can affect the validity of the results.

Quality Control Report

Contact:	Thesan Naidoo	**Date Reported:**	4/05/2022
Customer:	ADE Consulting Group	**No. of Samples:**	5
Address:	Unit 6 7 Millennium Court Silverwater NSW	**Date Received:**	29/04/2022
		Date of Analysis:	29/04/2022

Cust Ref: 21.2041

Glossary:

*NATA accreditation does not cover the performance of this service
ND-not detected,
NT-not tested
INS-Insufficient material to perform the test
LCS-Laboratory Control Sample
RPD-Relative Percent Difference
N/A-Not Applicable
< less than
> greater than
PQL- Practical Quantitation Limit
^Analytical result might be compromised due to sample condition or holding time requirements
Reaction rate 1 = Slight
Reaction rate 2 = Moderate
Reaction rate 3 = High
Reaction rate 4 = Vigorous

Quality Control Report

	Sample ID:	D202201284002	D202201284501
	Sample Name	21.1029 WAC74.TP2	21.1029 WAC74.BR
Parameter	**Units**	**PQL**	
ESA-P-ORG7 & ORG8			
Benzene			Pass	Pass
Toluene			Pass	Pass
Ethylbenzene			Pass	Pass
m.p Xylene			Pass	Pass
o Xylene			Pass	Pass
Fluorobenzene (Surr.)	%		67	73

	Sample ID:	Q2022003084
	Sample Name	
Parameter	**Units**	**PQL**	BTEX Blank - Soil
ESA-P-ORG7 & ORG8			
Benzene	mg/kg	0.5	<0.50
Toluene	mg/kg	0.5	<0.50
Ethylbenzene	mg/kg	1	<1.0
m.p Xylene	mg/kg	2	<2.0
o Xylene	mg/kg	1	<1.0

	Sample ID:	Q2022003085
	Sample Name	

Parameter	Units	PQL	BTEX Blank Sp-Soil
ESA-P-ORG7 & ORG8			
Benzene	%		98
Toluene	%		87
Ethylbenzene	%		82
m.p Xylene	%		83
o Xylene	%		81
Fluorobenzene (Surr.)	%		85

	Sample ID:	S202201283902
	Sample Name	21.1029 WAC74.TP1

Parameter	Units	PQL	
ESA-P-ORG-07 & 08			
Benzene	%		106
Toluene	%		94
Ethylbenzene	%		88
m.p Xylene	%		89
o Xylene	%		88
Fluorobenzene (Surr.)	%		91

Sydney Laboratory Services
A division of A. D. Envirotech Australia Pty Ltd
Unit 4/10-11 Millennium Court
Silverwater 2128
Ph: (02) 9648-6669

ADE CONSULTING GROUP
SOLUTIONS THROUGH INNOVATION

ESA-F-02
Chain of Custody (Internal)

T37

Date Printed: 6/05/2022

Document Revision Date: 30.06.2020

ESA-F-02 COC - Chain Of Custody (Internal: Sydney Laboratory Services)

ADE CONSULTING GROUP SOLUTIONS THROUGH INNOVATION

PROJECT:	AFJV BWD Site-Wide WAC
PROJECT NUMBER - INVOICE NUMBER	21.2041_BWN-WAC1
SAMPLES DELIVERED BY:	ADE Consulting Group
SAMPLERS:	6/7 Millennium Ct, Silverwater NSW 2128
TURNAROUND:	Shane Metcalfe & Richard Wang
SAMPLING DATE:	24h:XX 48h: 72h: 5 WORKING DAYS:
AFTER TEST STORAGE:	5.05.2022
REPORT FORMAT:	ROOM TEMP: ☐ FRIDGE: X FREEZER: ☐ >>4 WEEKS: ☐ OTHER: ☐
CONSULTANTS SIGNATURE:	HARD COPY: ☐ E-MAIL: X
PROJECT MANAGERS SIGNATURE:	shane.metcalfe@ade.group; ; richard.wang @ade.group
	thesan.naidoo@ade.group

LABORATORY REFERENCE NO. (Lab use ONLY):	21.2041.WAC1		
RECEIVED BY: Trianah	SIGNATURE: Tree		
SAMPLES: 20 CHILLED: ☐	PRESERVED: ☒	PRESERVATION METHOD: X	CUSTODY SEAL INTACT: ☒
MINIMAL HEADSPACE : ☐	WITHIN HOLDING TIME: ☑		
DATE: 6/5/22	TIME: 4:30pm	TEMPERATURE UPON RECEIPT: X	
LIMS LOT NO. 220125	LIMS/EXCEL SIGNATURE: X	COMMENTS: ~~SG~~BH3-1.0-1.2 (Extra)	

2022014...

SAMPLE DATA				CONTAINER DATA		ANALYSES REQUIRED																				NOTES
						Chem Lab												Asbestos						Mould		
LIMS Sample ID (Lab Use)	Sample ID (ADE)	MATRIX	SAMPLE DATE	TYPE & PRESERVATIVE	NO.	6 Metal Suite	8 Metal Suite	BTEX	PAH	OCP/OPP	PCB	vTRH (C6-C10)	TRH (C10-C40)	pH/EC	pH/pH fox	PFAS	VOC's	Bulk	Dust	Dust Swab	Soil 65g	Soil 500g NEPM	Airborne Asbesos Monitoring	Mould		POTENTIAL HAZARDOUS CONTAMINANTS: ☐ ASBESTOS ☐ HYDROCARBONS ☐ LEAD/ARSENIC ☐ NO KNOWN CONTAMINATION ☐ OTHER:_____
255	SES-BH1-0.0-0.2	Soil	5.05.2022	G, B, P	1		X	X	X	X	X	X	X			X	X				X					LAB PLEASE *EMAIL COC RECEIPT: ☐
256	SES-BH1-0.3-0.5	Soil	5.05.2022	G, B, P	2		X	X	X	X	X	X	X								X					Sample Comments
257	SES-BH1-1.0-1.2	Soil	5.05.2022	G, B, P	3		X	X	X	X	X	X	X			X	X				X					
258	SES-BH1-BR2	Soil	5.05.2022	G, B, P	4		X	X	X	X	X	X	X													
259	SES-BH2-0.0-0.2	Soil	5.05.2022	G, B, P	5		X	X	X	X	X	X	X								X					
260	SES-BH2-0.3-0.5	Soil	5.05.2022	G, B, P	6		X	X	X	X	X	X	X			X	X				X					
261	SES-BH2-1.0-1.2	Soil	5.05.2022	G, B, P	7		X	X	X	X	X	X	X			X	X				X					
262	SES SEA1-0.0-0.2	Soil	5.05.2022	G, B, P	8		X	X	X	X	X	X	X			X	X				X					
263	SES SEA1-0.3-0.5	Soil	5.05.2022	G, B, P	9		X	X	X	X	X	X	X													
264	SES SEA1-BR1	Soil	5.05.2022	G, B, P	10		X	X	X	X	X	X	X			X	X				X					
265	SES SEA3-0.0-0.2	Soil	5.05.2022	G, B, P	11		X	X	X	X	X	X	X								X					
266	SES SEA3-0.3-0.5	Soil	5.05.2022	G, B, P	12		X	X	X	X	X	X	X			X	X					X				
267	BH116-DEL1W-0.0-0.2	Soil	5.05.2022	G, B, P	13		X	X	X	X	X	X	X									X				
268	BH116-DEL1W-0.3-0.5	Soil	5.05.2022	G, B, P	14		X	X	X	X	X	X	X									X				
269	BH116-DEL1S-0.0-0.2	Soil	5.05.2022	G, B, P	15		X	X	X	X	X	X	X			X	X					X				
270	BH116-DEL1S-0.3-0.5	Soil	5.05.2022	G, B, P	16		X	X	X	X	X	X	X			X	X					X				
271	BH116-DEL1E-0.0-0.2	Soil	5.05.2022	G, B, P	17		X	X	X	X	X	X	X									X				
272	BH116-DEL1E-0.3-0.5	Soil	5.05.2022	G, B, P	18		X	X	X	X	X	X	X									X				
273	BH116-DEL1N-0.0-0.2	Soil	5.05.2022	G, B, P	19		X	X	X	X	X	X	X			X	X					X				
274	BH116-DEL1N-0.3-0.5	Soil	5.05.2022	G, B, P	20		X	X	X	X	X	X	X													

PFAS LOR set at 5µg/kg

Please do TCLP Prep on ALL samples

Due: 10-05-22

Comments:

Container Type and Preservative: P = Unpreserved Plastic; PN = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; PNA = Sodium Hydroxide Preserved Plastic; PC = HCl preserved Plastic; VC = Vial HCl Preserved; SP = Sulfuric Preserved Plastic; VB = Vial Sodium Bisulphate Preserved; VS = Vial Sulfuric Preserved; V = Unpreserved Vial; G = Amber Glass Unpreserved; SG = Sulfuric Preserved Amber Glass; F = Formaldehyde Preserved Glass; HS = HCl preserved Speciation bottle; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottle; ST = Sterile Bottle; J = Unpreserved Glass Jar; ASS = Plastic Bag for Acid Sulfate Soils; B = Unpreserved Bag.

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Silverwater 2128
Ph: (02) 9648-6669

Accreditation No.14664
Accredited for compliance with ISO/IEC 17025 - Testing.

SAMPLE RECEIPT NOTIFICATION (SRN)

Contact: Thesan Naidoo / Shane Metcalfe / Richard Wang
Project name: 21.2041.WAC1
Number of samples: 20
COC number: 21.2041.WAC1
Turn around time: 24hr
Date: 06/05/2022
Time received: 4:30pm
SLS Reference: 2202125
Estimated Report Delivery Date: 10/05/2022

Sample information

☑	All samples have been received and logged into LIMS.
☑	No mistakes in the COC
☑	Evidence of chilling for samples
N/A	Samples were preserved
N/A	Custody seal intact
☑	Samples were delivered within holding time
☑	Samples to be tested for volatiles had zero headspace
☑	All samples were received in good condition (no broken jars, labelled correctly…).
☐	Samples have been subcontracted

Comments

This report contains:
Sample receipt non-conformities
Summary of samples and requested analysis
Requested report deliverables

Asbestos Samples are reported as per the State EPA guidelines

Contact details

If you have any questions with respect to these samples please contact:
sls@ade.group

Trianah Tumbridge

Sydney Laboratory Services

A division of A. D. Envirotech Australia Pty Ltd
A.C.N. 093 452 950
Unit 4/10-11 Millennium Court,
Silverwater 2128
Ph: (02) 9648-6669

Accreditation No.14664
Accredited for compliance with ISO/IEC
17025 - Testing.

SAMPLE RECEIPT NOTIFICATION (SRN)

Laboratory Sample ID	Client Sample ID	8 Metal Suite	BTEX	PAH	OCP/OPP	PCB	vTRH (C6 - C10)	TRH (C10 - C40)	pH/EC	pH/pH fix	VOC's	PFAS	Bulk	Dust	Dust Swab	Soil 65 grams	SOIl 500 g NEPM	AAM
2022014255	SES-BH1-0.0-0.2	X	X	X	X	X	X	X			X	X				X		
2022014256	SES-BH1-0.3-0.5	X	X	X	X	X	X	X								X		
2022014257	SES-BH1-1.0-1.2	X	X	X	X	X	X	X			X	X				X		
2022014258	SES-BH1-BR2	X	X	X	X	X	X	X										
2022014259	SES-BH2-0.0-0.2	X	X	X	X	X	X	X								X		
2022014260	SES-BH2-0.3-0.5	X	X	X	X	X	X	X			X	X				X		
2022014261	SES-BH2-1.0-1.2	X	X	X	X	X	X	X			X	X				X		
2022014262	SES-SEA1-0.0-0.2	X	X	X	X	X	X	X			X	X				X		
2022014263	SES-SEA1-0.3-0.5	X	X	X	X	X	X	X								X		
2022014264	SES-SEA1-BR1	X	X	X	X	X	X	X										
2022014265	SES-SEA3-0.0-0.2	X	X	X	X	X	X	X			X	X				X		
2022014266	SES-SEA3-0.3-0.5	X	X	X	X	X	X	X								X		
2022014267	DEL1W-0.0-0.2	X	X	X	X	X	X	X			X	X					X	
2022014268	DEL1W-0.3-0.5	X	X	X	X	X	X	X									X	
2022014269	DEL1S-0.0-0.2	X	X	X	X	X	X	X									X	
2022014270	DEL1S-0.3-0.5	X	X	X	X	X	X	X			X	X					X	
2022014271	DEL1E-0.0-0.2	X	X	X	X	X	X	X			X	X					X	
2022014272	DEL1E-0.3-0.5	X	X	X	X	X	X	X									X	
2022014273	DEL1N-0.0-0.2	X	X	X	X	X	X	X			X	X					X	
2022014274	DEL1N-0.3-0.5	X	X	X	X	X	X	X									X	

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Accreditation No.14664
Accredited for compliance with ISO/IEC 17025 - Testing.

This certificate of analysis contains General Comments and Analytical Results. Quality Control Report and Laboratory Quality Acceptance Criteria have been issued separately.

This report supersedes any previous report(s) with this reference. This document shall not be reproduced, except in full.

This report has been electronically signed by authorised signatories below.

Authorised By



Kaiyu Li

General Comments

Samples are analysed on as received basis. Sampling is not covered by NATA accreditation.

Where moisture determination has been performed, results are reported on dry weight basis.

Where the PQL of reported result differs from standard PQL, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Samples were analysed within holding time described by laboratory internal procedures if not stated otherwise. If samples delivered do not meet required analytical criteria, results will be marked with ^.

However surrogate standards are added to samples, results are not corrected for standards recoveries.

Analysis of VOC in water samples are performed on unfiltered waters (as received) spiked with surrogates and injection standards only.

SLS is responsible for all the information in the report, except that provided by the customer.

All sampling information included in the report has been provided by customer.

Information provided by the customer can affect the validity of the results.

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Silverwater 2128
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Certificate of Analysis

Contact:	Thesan Naidoo	**Date Reported:**	10/05/2022
Customer:	ADE Consulting Group	**No. of Samples:**	20
Address:	Unit 6 7 Millennium Court Silverwater NSW	**Date Received:**	9/05/2022
		Date of Analysis:	9/05/2022
Cust Ref:	21.2041.BWN.WAC1		

Glossary:

*NATA accreditation does not cover the performance of this service
ND-not detected,
NT-not tested
INS-Insufficient material to perform the test
LCS-Laboratory Control Sample
RPD-Relative Percent Difference
N/A-Not Applicable
< less than
> greater than
PQL- Practical Quantitation Limit
^Analytical result might be compromised due to sample condition or holding time requirements
Reaction rate 1 = Slight
Reaction rate 2 = Moderate
Reaction rate 3 = High
Reaction rate 4 = Vigorous

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Certificate of Analysis

	Sample ID:	2022014255	2022014256	2022014257	2022014258	2022014259	2022014260	2022014261	2022014262	2022014263	2022014264	2022014265
	Sample Name	SES-BH1-0.0-0.2	SES-BH1-0.3-0.5	SES-BH1-1.0-1.2	SES-BH1-BR2	SES-BH2-0.0-0.2	SES-BH2-0.3-0.5	SES-BH2-1.0-1.2	SES-SEA1-0.0-0.2	SES-SEA1-0.3-0.5	SES-SEA1-BR1	SES-SEA3-0.0-0.2
Parameter	Units	PQL										
ESA-MP-01,ICP-01												
Arsenic	mg/kg	5	<5.0	<5.0	12.5	<5.0	<5.0	11.3	10.7	8.8	6.5	8.1	5.0
Cadmium	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Chromium	mg/kg	5	45.6	<5.0	17.8	15.2	7.4	11.6	18.7	18.2	15.3	19.7	13.9
Copper	mg/kg	5	304.8	10.7	14.9	122.9	36.0	14.3	277.4	6.9	7.4	7.8	132.9
Lead	mg/kg	10	400.3	<10.0	22.2	194.1	23.7	15.4	565.2	30.5	58.6	36.9	320.2
Mercury	mg/kg	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Nickel	mg/kg	10	159.8	11.9	<10.0	57.3	13.8	<10.0	28.6	<10.0	<10.0	<10.0	<10.0
Zinc	mg/kg	5	973.2	<5.0	112.9	329.6	27.3	13.1	456.8	17.4	19.1	24.6	707.6
ESA-P-12													
% Moisture Content	%		20.8	26.8	24.7	23.1	18.9	25.1	25.5	17.1	24.7	24.4	22.4
ESA-P-ORG(12 - 15)													
Acenaphthene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Acenaphthylene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Anthracene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	0.49	<0.30	<0.30	<0.30	<0.30
Benzo[a]anthracene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	1.12	<0.30	<0.30	<0.30	0.51
Benzo[a]pyrene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	1.05	<0.30	<0.30	<0.30	0.46
Benzo[b]fluoranthene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	1.62	<0.30	<0.30	<0.30	0.75
Benzo[g,h,i]perylene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	0.64	<0.30	<0.30	<0.30	<0.30
Benzo[k]fluoranthene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	1.58	<0.30	<0.30	<0.30	0.73
Chrysene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	1.01	<0.30	<0.30	<0.30	0.48
Dibenzo[a,h]anthracene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Fluoranthene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	2.48	0.35	<0.30	<0.30	1.46
Fluorene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Indeno(1,2,3-cd)pyrene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	0.68	<0.30	<0.30	<0.30	<0.30
Naphthalene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Phenanthrene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	1.97	<0.30	<0.30	<0.30	1.29
Pyrene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	2.46	0.32	<0.30	<0.30	1.25

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Sum of Positive PAHs	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	15.10	0.67	<0.30	<0.30	6.93
Benzo(a)pyrene TEQ (Zero)	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	1.57	<0.30	<0.30	<0.30	0.66
Benzo(a)pyrene TEQ (Half PQL)	mg/kg	0.3	0.36	0.36	0.36	0.36	0.36	0.36	1.72	0.36	0.36	0.36	0.83
Benzo(a)pyrene TEQ (PQL)	mg/kg	0.3	0.73	0.73	0.73	0.73	0.73	0.73	1.87	0.73	0.73	0.73	1.00
p-Terphenyl-d14 (Surr.)	%		111	126	102	127	99	94	106	96	97	107	97
aldrin	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
a-BHC	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
b-BHC	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
d-BHC	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
g-BHC (lindane)	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
cis-chlordane	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
trans-chlordane	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
4,4'-DDD	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
4,4'-DDE	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
4,4'-DDT	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
dieldrin	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
endosulfan I	mg/kg	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
endosulfan II	mg/kg	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
endosulfan sulfate	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
endrin	mg/kg	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
endrin aldehyde	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
endrin ketone	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
heptachlor	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
heptachlor epoxide	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
hexachlorobenzene	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
methoxychlor	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TCMX (Surr.)	%		115	128	102	129	94	90	104	92	95	103	91
chlorpyrifos	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
chlorpyrifos methyl	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
diazinon	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
fenchlorphos	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
methyl parathion	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
prophos	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10

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tributylphosphorotrithioite	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor 1016	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1221	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1232	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1242	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1248	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1254	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1260	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
2-fluorobiphenyl (Surr.)	%		110	124	99	126	94	91	102	92	94	105	93
ESA-P-ORG16													
PFBA	ug/kg	5	<5	-	<5	-	-	<5	<5	<5	-	-	<5
PFPeA	ug/kg	5	<5	-	<5	-	-	<5	<5	<5	-	-	<5
PFBS	ug/kg	5	<5	-	<5	-	-	<5	<5	<5	-	-	<5
PFHxA	ug/kg	5	<5	-	<5	-	-	<5	<5	<5	-	-	<5
PFPeS	ug/kg	5	<5	-	<5	-	-	<5	<5	<5	-	-	<5
PFHpA	ug/kg	5	<5	-	<5	-	-	<5	<5	<5	-	-	<5
PFOA	ug/kg	5	<5	-	<5	-	-	<5	<5	<5	-	-	<5
PFHpS	ug/kg	5	<5	-	<5	-	-	<5	<5	<5	-	-	<5
PFOS	ug/kg	5	8	-	<5	-	-	<5	<5	<5	-	-	<5
PFDA	ug/kg	5	<5	-	<5	-	-	<5	<5	<5	-	-	<5
PFUdA	ug/kg	5	<5	-	<5	-	-	<5	<5	<5	-	-	<5
PFDoA	ug/kg	5	<5	-	<5	-	-	<5	<5	<5	-	-	<5
PFTrDA	ug/kg	5	<5	-	<5	-	-	<5	<5	<5	-	-	<5
PFTeDA	ug/kg	5	<5	-	<5	-	-	<5	<5	<5	-	-	<5
PFNA	ug/kg	5	<5	-	<5	-	-	<5	<5	<5	-	-	<5
PFHxS	ug/kg	5	<5	-	<5	-	-	<5	<5	<5	-	-	<5
MPFBA (Surr.)	%		76	-	76	-	-	81	73	74	-	-	72
M3PFBS (Surr.)	%		85	-	86	-	-	94	94	81	-	-	83
MPFOS (Surr.)	%		83	-	79	-	-	79	96	105	-	-	92
MPFHxA (Surr.)	%		78	-	73	-	-	86	81	85	-	-	88
MPFOA (Surr.)	%		73	-	76	-	-	86	74	81	-	-	84
MPFUdA (Surr.)	%		76	-	74	-	-	99	70	73	-	-	71

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ESA-P-ORG(3,8)													
>C10-C16	mg/kg	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
>C16-C34	mg/kg	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
>C34-C40	mg/kg	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
>C10-C40 (Sum of total)	mg/kg	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
>C10-C14	mg/kg	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
>C15-C28	mg/kg	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
>C29-C36	mg/kg	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
>C10-C36 (Sum of total)	mg/kg	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
ESA-P-ORG07 & ORG08													
Benzene	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Toluene	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylbenzene	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
m.p Xylene	mg/kg	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
o Xylene	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Sum of BTEX	mg/kg	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total Xylenes	mg/kg	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	mg/kg	0.5	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	-	-	<0.50
Sum of MAHs	mg/kg	1	<1.0	-	<1.0	-	-	<1.0	<1.0	<1.0	-	-	<1.0
vNaphthalene	mg/kg	0.5	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	-	-	<0.50
C6-C9 Conc.	mg/kg	35	<35	<35	<35	<35	<35	<35	<35	<35	<35	<35	<35
C6-C10 Conc.	mg/kg	35	<35	<35	<35	<35	<35	<35	<35	<35	<35	<35	<35
C6-C10 minus BTEX (F1)	mg/kg	35	<35	<35	<35	<35	<35	<35	<35	<35	<35	<35	<35
Vinyl Chloride	mg/kg	0.5	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	-	-	<0.50
trans-1,2-Dichloroethene	mg/kg	0.5	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	-	-	<0.50
Methylene chloride	mg/kg	0.5	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	-	-	<0.50
cis-1,2-Dichloroethene	mg/kg	0.5	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	-	-	<0.50
Bromochloromethane	mg/kg	0.5	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	-	-	<0.50
Chloroform	mg/kg	0.5	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	-	-	<0.50
1,1,1-Trichloroethane	mg/kg	0.5	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	-	-	<0.50
1,2-Dichloroethane	mg/kg	0.5	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	-	-	<0.50
Carbon tetrachloride	mg/kg	0.5	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	-	-	<0.50
1,1,2-Trichloroethane	mg/kg	0.5	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	-	-	<0.50

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Tetrachloroethene	mg/kg	0.5	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	-	-	<0.50
1,1,1,2-Tetrachloroethane	mg/kg	0.5	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	-	-	<0.50
1,1,2,2-Tetrachloroethane	mg/kg	0.5	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	-	-	<0.50
1,2-Dichlorobenzene	mg/kg	0.5	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	-	-	<0.50
1,4-Dichlorobenzene	mg/kg	0.5	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	-	-	<0.50
1,2,4-Trichlorobenzene	mg/kg	0.5	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	-	-	<0.50
Hexachlorobutadiene	mg/kg	0.5	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	-	-	<0.50
1,1-Dichloroethene	mg/kg	0.5	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	-	-	<0.50
Trichloroethene	mg/kg	0.5	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	-	-	<0.50
Chlorobenzene	mg/kg	0.5	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	-	-	<0.50
Sum of Chlorinated Hydrocarbons	mg/kg	0.5	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	-	-	<0.50
Other Chlorinated Hydrocarbon	mg/kg	0.5	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	-	-	<0.50
Toluene-d8 (Surr.)	%		109	111	107	110	106	112	113	111	115	112	111
1,2-Dichloroethane-d4 (Surr.)	%		108	111	107	110	106	109	108	107	109	110	109
4-Bromofluorobenzene (BFB) (Surr.)	%		102	102	102	103	99	103	103	102	105	104	103
Trifluorotoluene (Surr.)	%		109	112	108	111	107	112	112	112	115	111	109

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Certificate of Analysis

	Sample ID:	2022014266	2022014267	2022014268	2022014269	2022014270	2022014271	2022014272	2022014273	2022014274
	Sample Name	SES-SEA3-0.3-0.5	BH116-DEL1W-0.0-0.2	BH116-DEL1W-0.3-0.5	BH116-DEL1S-0.0-0.2	BH116-DEL1S-0.3-0.5	BH116-DEL1E-0.0-0.2	BH116-DEL1E-0.3-0.5	BH116-DEL1N-0.0-0.2	BH116-DEL1N-0.3-0.5
Parameter	**Units**	**PQL**								
ESA-MP-01,ICP-01										
Arsenic	mg/kg	5	18.3	<5.0	9.3	6.7	9.2	6.5	8.3	<5.0	10.3
Cadmium	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Chromium	mg/kg	5	32.3	19.7	16.3	19.6	12.6	16.2	14.4	17.2	15.9
Copper	mg/kg	5	404.3	54.2	13.1	93.7	8.8	143.2	33.3	76.2	10.7
Lead	mg/kg	10	1520.9	556.1	56.7	743.3	<10.0	999.6	146.4	421.9	<10.0
Mercury	mg/kg	0.2	0.42	0.44	<0.20	0.93	<0.20	0.45	<0.20	0.31	<0.20
Nickel	mg/kg	10	27.8	16.3	<10.0	29.8	<10.0	20.7	<10.0	11.1	<10.0
Zinc	mg/kg	5	2100.6	428.3	26.6	621.9	<5.0	1225.1	95.3	289.6	<5.0
ESA-P-12										
% Moisture Content	%		28.4	23.2	24.5	20.4	24.0	23.6	21.4	22.3	22.1
ESA-P-ORG(12 - 15)										
Acenaphthene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Acenaphthylene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Anthracene	mg/kg	0.3	0.38	<0.30	<0.30	0.66	<0.30	0.38	<0.30	0.40	<0.30
Benzo[a]anthracene	mg/kg	0.3	0.92	0.54	0.43	1.89	<0.30	1.06	<0.30	1.23	<0.30
Benzo[a]pyrene	mg/kg	0.3	0.81	0.54	0.73	1.87	<0.30	0.98	0.32	1.20	<0.30
Benzo[b]fluoranthene	mg/kg	0.3	1.34	0.87	0.95	3.02	<0.30	1.60	0.46	1.94	<0.30
Benzo[g,h,i]perylene	mg/kg	0.3	0.50	0.38	0.79	1.26	<0.30	0.64	<0.30	0.81	<0.30
Benzo[k]fluoranthene	mg/kg	0.3	1.31	0.85	0.92	2.94	<0.30	1.56	0.45	1.89	<0.30
Chrysene	mg/kg	0.3	0.84	0.49	0.40	1.75	<0.30	0.96	<0.30	1.12	<0.30
Dibenzo[a,h]anthracene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Fluoranthene	mg/kg	0.3	2.29	1.10	0.74	4.49	<0.30	2.57	0.45	2.77	<0.30
Fluorene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Indeno(1,2,3-cd)pyrene	mg/kg	0.3	0.55	0.39	0.75	1.33	<0.30	0.70	<0.30	0.86	<0.30
Naphthalene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Phenanthrene	mg/kg	0.3	1.42	0.54	0.31	3.03	<0.30	1.73	<0.30	1.55	<0.30
Pyrene	mg/kg	0.3	2.03	1.08	0.76	4.27	<0.30	2.42	0.45	2.64	<0.30

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Sum of Positive PAHs	mg/kg	0.3	12.39	6.78	6.78	26.51	<0.30	14.60	2.13	16.41	<0.30
Benzo(a)pyrene TEQ (Zero)	mg/kg	0.3	1.24	0.81	1.05	2.82	<0.30	1.49	0.41	1.81	<0.30
Benzo(a)pyrene TEQ (Half PQL)	mg/kg	0.3	1.39	0.96	1.20	2.97	0.36	1.64	0.59	1.96	0.36
Benzo(a)pyrene TEQ (PQL)	mg/kg	0.3	1.54	1.11	1.35	3.12	0.73	1.79	0.78	2.11	0.73
p-Terphenyl-d14 (Surr.)	%		100	101	89	103	99	106	114	94	101
aldrin	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
a-BHC	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
b-BHC	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
d-BHC	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
g-BHC (lindane)	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
cis-chlordane	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
trans-chlordane	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
4,4'-DDD	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
4,4'-DDE	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
4,4'-DDT	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
dieldrin	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
endosulfan I	mg/kg	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
endosulfan II	mg/kg	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
endosulfan sulfate	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
endrin	mg/kg	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
endrin aldehyde	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
endrin ketone	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
heptachlor	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
heptachlor epoxide	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
hexachlorobenzene	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
methoxychlor	mg/kg	0.1	<0.10	<0.10	<0.10	0.18	<0.10	<0.10	<0.10	0.11	<0.10
TCMX (Surr.)	%		95	93	84	95	94	99	105	89	94
chlorpyrifos	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
chlorpyrifos methyl	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
diazinon	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
fenchlorphos	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
methyl parathion	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
prophos	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10

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tributylphosphorotrithioite	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor 1016	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1221	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1232	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1242	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1248	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1254	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1260	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
2-fluorobiphenyl (Surr.)	%		95	98	85	97	95	102	109	90	99
ESA-P-ORG16											
PFBA	ug/kg	5	-	<5	-	-	<5	<5	-	<5	-
PFPeA	ug/kg	5	-	<5	-	-	<5	<5	-	<5	-
PFBS	ug/kg	5	-	<5	-	-	<5	<5	-	<5	-
PFHxA	ug/kg	5	-	<5	-	-	<5	<5	-	<5	-
PFPeS	ug/kg	5	-	<5	-	-	<5	<5	-	<5	-
PFHpA	ug/kg	5	-	<5	-	-	<5	<5	-	<5	-
PFOA	ug/kg	5	-	<5	-	-	<5	<5	-	<5	-
PFHpS	ug/kg	5	-	<5	-	-	<5	<5	-	<5	-
PFOS	ug/kg	5	-	<5	-	-	<5	<5	-	<5	-
PFDA	ug/kg	5	-	<5	-	-	<5	<5	-	<5	-
PFUdA	ug/kg	5	-	<5	-	-	<5	<5	-	<5	-
PFDoA	ug/kg	5	-	<5	-	-	<5	<5	-	<5	-
PFTrDA	ug/kg	5	-	<5	-	-	<5	<5	-	<5	-
PFTeDA	ug/kg	5	-	<5	-	-	<5	<5	-	<5	-
PFNA	ug/kg	5	-	<5	-	-	<5	<5	-	<5	-
PFHxS	ug/kg	5	-	<5	-	-	<5	<5	-	<5	-
MPFBA (Surr.)	%		-	76	-	-	81	88	-	71	-
M3PFBS (Surr.)	%		-	83	-	-	103	108	-	77	-
MPFOS (Surr.)	%		-	89	-	-	89	98	-	81	-
MPFHxA (Surr.)	%		-	81	-	-	101	95	-	78	-
MPFOA (Surr.)	%		-	88	-	-	96	86	-	73	-
MPFUdA (Surr.)	%		-	70	-	-	82	95	-	71	-

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ESA-P-ORG(3,8)											
>C10-C16	mg/kg	50	<50	<50	<50	<50	<50	<50	<50	<50	<50
>C16-C34	mg/kg	100	<100	<100	<100	<100	<100	<100	<100	<100	<100
>C34-C40	mg/kg	100	<100	<100	<100	<100	<100	<100	<100	<100	<100
>C10-C40 (Sum of total)	mg/kg	50	<50	<50	<50	<50	<50	<50	<50	<50	<50
>C10-C14	mg/kg	50	<50	<50	<50	<50	<50	<50	<50	<50	<50
>C15-C28	mg/kg	100	<100	<100	<100	<100	<100	<100	<100	<100	<100
>C29-C36	mg/kg	100	<100	<100	<100	<100	<100	<100	<100	<100	<100
>C10-C36 (Sum of total)	mg/kg	50	<50	<50	<50	<50	<50	<50	<50	<50	<50
ESA-P-ORG07 & ORG08											
Benzene	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Toluene	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylbenzene	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
m.p Xylene	mg/kg	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
o Xylene	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Sum of BTEX	mg/kg	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total Xylenes	mg/kg	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	mg/kg	0.5	-	<0.50	-	-	<0.50	<0.50	-	<0.50	-
Sum of MAHs	mg/kg	1	-	<1.0	-	-	<1.0	<1.0	-	<1.0	-
vNaphthalene	mg/kg	0.5	-	<0.50	-	-	<0.50	<0.50	-	<0.50	-
C6-C9 Conc.	mg/kg	35	<35	<35	<35	<35	<35	<35	<35	<35	<35
C6-C10 Conc.	mg/kg	35	<35	<35	<35	<35	<35	<35	<35	<35	<35
C6-C10 minus BTEX (F1)	mg/kg	35	<35	<35	<35	<35	<35	<35	<35	<35	<35
Vinyl Chloride	mg/kg	0.5	-	<0.50	-	-	<0.50	<0.50	-	<0.50	-
trans-1,2-Dichloroethene	mg/kg	0.5	-	<0.50	-	-	<0.50	<0.50	-	<0.50	-
Methylene chloride	mg/kg	0.5	-	<0.50	-	-	<0.50	<0.50	-	<0.50	-
cis-1,2-Dichloroethene	mg/kg	0.5	-	<0.50	-	-	<0.50	<0.50	-	<0.50	-
Bromochloromethane	mg/kg	0.5	-	<0.50	-	-	<0.50	<0.50	-	<0.50	-
Chloroform	mg/kg	0.5	-	<0.50	-	-	<0.50	<0.50	-	<0.50	-
1,1,1-Trichloroethane	mg/kg	0.5	-	<0.50	-	-	<0.50	<0.50	-	<0.50	-
1,2-Dichloroethane	mg/kg	0.5	-	<0.50	-	-	<0.50	<0.50	-	<0.50	-
Carbon tetrachloride	mg/kg	0.5	-	<0.50	-	-	<0.50	<0.50	-	<0.50	-
1,1,2-Trichloroethane	mg/kg	0.5	-	<0.50	-	-	<0.50	<0.50	-	<0.50	-

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Tetrachloroethene	mg/kg	0.5	-	<0.50	-	-	<0.50	<0.50	-	<0.50	-
1,1,1,2-Tetrachloroethane	mg/kg	0.5	-	<0.50	-	-	<0.50	<0.50	-	<0.50	-
1,1,2,2-Tetrachloroethane	mg/kg	0.5	-	<0.50	-	-	<0.50	<0.50	-	<0.50	-
1,2-Dichlorobenzene	mg/kg	0.5	-	<0.50	-	-	<0.50	<0.50	-	<0.50	-
1,4-Dichlorobenzene	mg/kg	0.5	-	<0.50	-	-	<0.50	<0.50	-	<0.50	-
1,2,4-Trichlorobenzene	mg/kg	0.5	-	<0.50	-	-	<0.50	<0.50	-	<0.50	-
Hexachlorobutadiene	mg/kg	0.5	-	<0.50	-	-	<0.50	<0.50	-	<0.50	-
1,1-Dichloroethene	mg/kg	0.5	-	<0.50	-	-	<0.50	<0.50	-	<0.50	-
Trichloroethene	mg/kg	0.5	-	<0.50	-	-	<0.50	<0.50	-	<0.50	-
Chlorobenzene	mg/kg	0.5	-	<0.50	-	-	<0.50	<0.50	-	<0.50	-
Sum of Chlorinated Hydrocarbons	mg/kg	0.5	-	<0.50	-	-	<0.50	<0.50	-	<0.50	-
Other Chlorinated Hydrocarbon	mg/kg	0.5	-	<0.50	-	-	<0.50	<0.50	-	<0.50	-
Toluene-d8 (Surr.)	%		95	92	95	95	93	92	93	106	104
1,2-Dichloroethane-d4 (Surr.)	%		90	92	90	91	89	87	89	103	101
4-Bromofluorobenzene (BFB) (Surr.)	%		87	85	84	85	84	81	82	94	94
Trifluorotoluene (Surr.)	%		94	89	92	93	91	92	92	106	103

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Accreditation No.14664
Accredited for compliance with ISO/IEC 17025 - Testing.

This Quality Control Report contains results of QAQC samples analysis and the Laboratory Acceptance Criteria.

This report supersedes any previous report(s) with this reference. This document shall not be reproduced, except in full.

This report has been electronically signed by authorised signatories below.

Authorised By

Kaiyu Li

General Comments

Duplicate samples and matrix spike may not be prepared on smaller jobs, however are analysed at frequency. QAQC samples shown within the report as e.g. Batch Blank, Batch Matrix Spike were performed on samples not reported on that Certificate of Analysis.

Blank This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in the same manner as for samples.
Duplicate This is the interlaboratory split of a random sample from the processed batch
Matrix Spike A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample): This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class.
Surr. (Surrogate Spike) Surrogates are known additions to each sample, blank and matrix spike or LCS in a batch. Surrogates are chosen as a compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Blank shall be < PQL
Matrix Spikes and LCS: Generally 70-130% for inorganics/metals/PFAS, 60-140% for organics is acceptable. Matrix heterogeneity may result in matrix spike analyses falling outside these limits
RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:
Results <10 times the PQL : No Limit
Results between 10-20 times the PQL : RPD must lie between 0-50%
Results >20 times the PQL : RPD must lie between 0-30%
Surrogate Recoveries : Recoveries must lie between 50-150%

SLS is responsible for all the information in the report, except that provided by the customer.

All sampling information included in the report has been provided by customer.

Information provided by the customer can affect the validity of the results.

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Quality Control Report

Contact:	Thesan Naidoo	**Date Reported:**	10/05/2022
Customer:	ADE Consulting Group	**No. of Samples:**	26
Address:	Unit 6 7 Millennium Court Silverwater NSW	**Date Received:**	9/05/2022
		Date of Analysis:	9/05/2022

Cust Ref: 21.2041.BWN.WAC1

Glossary:

*NATA accreditation does not cover the performance of this service
ND-not detected,
NT-not tested
INS-Insufficient material to perform the test
LCS-Laboratory Control Sample
RPD-Relative Percent Difference
N/A-Not Applicable
< less than
> greater than
PQL- Practical Quantitation Limit
^Analytical result might be compromised due to sample condition or holding time requirements
Reaction rate 1 = Slight
Reaction rate 2 = Moderate
Reaction rate 3 = High
Reaction rate 4 = Vigorous

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Quality Control Report

		Sample ID:	D202201425601	D202201426501
		Sample Name	SES-BH1-0.3-0.5	SES-SEA3-0.0-0.2
Parameter	*Units*	*PQL*		
ESA-P-ORG7 & ORG8				
Benzene			Pass	Pass
Toluene			Pass	Pass
Ethylbenzene			Pass	Pass
m.p Xylene			Pass	Pass
o Xylene			Pass	Pass
Styrene			Pass	Pass
vNaphthalene			Pass	Pass
C6-C9			Pass	Pass
C6-C10			Pass	Pass
Vinyl Chloride			Pass	Pass
trans-1,2-Dichloroethene			Pass	Pass
Methylene chloride			Pass	Pass
cis-1,2-Dichloroethene			Pass	Pass
Bromochloromethane			Pass	Pass
Chloroform			Pass	Pass
1,1,1-Trichloroethane			Pass	Pass
1,2-Dichloroethane			Pass	Pass
Carbon tetrachloride			Pass	Pass
1,1,2-Trichloroethane			Pass	Pass
Tetrachloroethene			Pass	Pass
1,1,1,2-Tetrachloroethane			Pass	Pass
1,1,2,2-Tetrachloroethane			Pass	Pass
1,2-Dichlorobenzene			Pass	Pass
1,4-Dichlorobenzene			Pass	Pass
1,2,4-Trichlorobenzene			Pass	Pass
Hexachlorobutadiene			Pass	Pass
1,1-Dichloroethene			Pass	Pass

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Trichloroethene			Pass	Pass
Chlorobenzene			Pass	Pass
Toluene-d8	%		108	111
1,2-Dichloroethane-d4	%		105	108
4-Bromofluorobenzene (BFB)	%		99	103
Trifluorotoluene (Surr.)	%		116	110
		Sample ID:	**D202201425602**	**D202201426502**
		Sample Name	**SES-BH1-0.3-0.5**	**SES-SEA3-0.0-0.2**
Parameter	***Units***	***PQL***		
ESA-P-ORG(12 - 15)				
Acenaphthene			Pass	Pass
Acenaphthylene			Pass	Pass
Anthracene			Pass	Pass
Benzo[a]anthracene			Pass	Pass
Benzo[a]pyrene			Pass	Pass
Benzo[b]fluoranthene			Pass	Pass
Benzo[g,h,i]perylene			Pass	Pass
Benzo[k]fluoranthene			Pass	Pass
Chrysene			Pass	Pass
Dibenzo[a,h]anthracene			Pass	Pass
Fluoranthene			Pass	Pass
Fluorene			Pass	Pass
Indeno(1,2,3-cd)pyrene			Pass	Pass
Naphthalene			Pass	Pass
Phenanthrene			Pass	Pass
Pyrene			Pass	Pass
p-Terphenyl-d14 (Surr.)	%		119	99
aldrin			Pass	Pass
a-BHC			Pass	Pass
b-BHC			Pass	Pass
d-BHC			Pass	Pass
g-BHC (lindane)			Pass	Pass
cis-chlordane			Pass	Pass

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trans-chlordane			Pass	Pass
4,4'-DDD			Pass	Pass
4,4'-DDE			Pass	Pass
4,4'-DDT			Pass	Pass
dieldrin			Pass	Pass
endosulfan I			Pass	Pass
endosulfan II			Pass	Pass
endosulfan sulfate			Pass	Pass
endrin			Pass	Pass
endrin aldehyde			Pass	Pass
endrin ketone			Pass	Pass
heptachlor			Pass	Pass
heptachlor epoxide			Pass	Pass
hexachlorobenzene			Pass	Pass
methoxychlor			Pass	Pass
TCMX (Surr.)	%		120	98
chlorpyrifos			Pass	Pass
chlorpyrifos methyl			Pass	Pass
diazinon			Pass	Pass
fenchlorphos			Pass	Pass
methyl parathion			Pass	Pass
prophos			Pass	Pass
tributylphosphorotrithioite			Pass	Pass
Aroclor 1016			Pass	Pass
Aroclor 1221			Pass	Pass
Aroclor 1232			Pass	Pass
Aroclor 1242			Pass	Pass
Aroclor 1248			Pass	Pass
Aroclor 1254			Pass	Pass
Aroclor 1260			Pass	Pass
2-fluorobiphenyl (Surr.)	%		116	95

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		Sample ID:	D202201425603	D202201426503
		Sample Name	SES-BH1-0.3-0.5	SES-SEA3-0.0-0.2
Parameter	*Units*	*PQL*		
ESA-P-ORG(3,8)				
>C10-C16			Pass	Pass
>C16-C34			Pass	Pass
>C34-C40			Pass	Pass
>C10-C14			Pass	Pass
>C15-C28			Pass	Pass
>C29-C36			Pass	Pass

		Sample ID:	D202201425604	D202201426504
		Sample Name	SES-BH1-0.3-0.5	SES-SEA3-0.0-0.2
Parameter	*Units*	*PQL*		
ESA-MP-01,ICP-01				
Arsenic			Pass	Pass
Cadmium			Pass	Pass
Chromium			Pass	Pass
Copper			Pass	Pass
Lead			Pass	Pass
Mercury			Pass	Pass
Nickel			Pass	Pass
Zinc			Pass	Pass

		Sample ID:	D202201425701	
		Sample Name	SES-BH1-1.0-1.2	
Parameter	*Units*	*PQL*		
ESA-P-ORG16				
PFBA			Pass	
PFPeA			Pass	
PFBS			Pass	
PFHxA			Pass	
PFPeS			Pass	
PFHpA			Pass	

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PFOA			Pass
PFHpS			Pass
PFOS			Pass
PFDA			Pass
PFUdA			Pass
PFDoA			Pass
PFTrDA			Pass
PFTeDA			Pass
PFNA			Pass
PFHxS			Pass
MPFBA	%		75
M3PFBS	%		81
MPFOS	%		95
MPFHxA	%		83
MPFOA	%		74
MPFUdA	%		71

Sample ID: **D202201440301**

Sample Name **WAC9-TP1D 1m**

Parameter	*Units*	*PQL*	
ESA-P-ORG16			
PFBA			Pass
PFPeA			Pass
PFBS			Pass
PFHxA			Pass
PFPeS			Pass
PFHpA			Pass
PFOA			Pass
PFHpS			Pass
PFOS			Pass
PFDA			Pass
PFUdA			Pass
PFDoA			Pass
PFTrDA			Pass

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PFTeDA			Pass
PFNA			Pass
PFHxS			Pass
MPFBA	%		71
M3PFBS	%		77
MPFOS	%		71
MPFHxA	%		73
MPFOA	%		72
MPFUdA	%		72

Sample ID: **Q2022003346**

Sample Name

Parameter	***Units***	***PQL***	VOCs MB Vic - Soil
ESA-P-ORG7 & ORG8			
Benzene	mg/kg	0.5	<0.50
Toluene	mg/kg	0.5	<0.50
Ethylbenzene	mg/kg	0.5	<0.50
m.p Xylene	mg/kg	1	<1.0
o Xylene	mg/kg	0.5	<0.50
Styrene	mg/kg	0.5	<0.50
vNaphthalene	mg/kg	0.5	<0.50
C6-C9	mg/kg	35	<35
C6-C10	mg/kg	35	<35
Vinyl Chloride	mg/kg	0.5	<0.50
trans-1,2-Dichloroethene	mg/kg	0.5	<0.50
Methylene chloride	mg/kg	0.5	<0.50
cis-1,2-Dichloroethene	mg/kg	0.5	<0.50
Bromochloromethane	mg/kg	0.5	<0.50
Chloroform	mg/kg	0.5	<0.50
1,1,1-Trichloroethane	mg/kg	0.5	<0.50
1,2-Dichloroethane	mg/kg	0.5	<0.50
Carbon tetrachloride	mg/kg	0.5	<0.50
1,1,2-Trichloroethane	mg/kg	0.5	<0.50

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Tetrachloroethene	mg/kg	0.5	<0.50
1,1,1,2-Tetrachloroethane	mg/kg	0.5	<0.50
1,1,2,2-Tetrachloroethane	mg/kg	0.5	<0.50
1,2-Dichlorobenzene	mg/kg	0.5	<0.50
1,4-Dichlorobenzene	mg/kg	0.5	<0.50
1,2,4-Trichlorobenzene	mg/kg	0.5	<0.50
Hexachlorobutadiene	mg/kg	0.5	<0.50
1,1-Dichloroethene	mg/kg	0.5	<0.50
Trichloroethene	mg/kg	0.5	<0.50
Chlorobenzene	mg/kg	0.5	<0.50

Sample ID: **Q2022003347**

Sample Name

Parameter	***Units***	***PQL***	VOCs LCS Vic - Soil
ESA-P-ORG7 & ORG8			
1,1-Dichloroethene	%		106
Benzene	%		115
Trichloroethene	%		106
Toluene	%		115
Chlorobenzene	%		117
Toluene-d8 (Surr.)	%		109
1,2-Dichloroethane-d4 (Surr.)	%		103
4-Bromofluorobenzene (BFB) (Surr.)	%		103
Trifluorotoluene (Surr.)	%		109

Sample ID: **Q2022003348**

Sample Name

Parameter	***Units***	***PQL***	PCB Blank - Soil
ESA-P-ORG(12 - 15)			
Acenaphthene	mg/kg	0.3	<0.30
Acenaphthylene	mg/kg	0.3	<0.30
Anthracene	mg/kg	0.3	<0.30
Benzo[a]anthracene	mg/kg	0.3	<0.30
Benzo[a]pyrene	mg/kg	0.3	<0.30
Benzo[b]fluoranthene	mg/kg	0.3	<0.30

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Benzo[g,h,i]perylene	mg/kg	0.3	<0.30
Benzo[k]fluoranthene	mg/kg	0.3	<0.30
Chrysene	mg/kg	0.3	<0.30
Dibenzo[a,h]anthracene	mg/kg	0.3	<0.30
Fluoranthene	mg/kg	0.3	<0.30
Fluorene	mg/kg	0.3	<0.30
Indeno(1,2,3-cd)pyrene	mg/kg	0.3	<0.30
Naphthalene	mg/kg	0.3	<0.30
Phenanthrene	mg/kg	0.3	<0.30
Pyrene	mg/kg	0.3	<0.30
aldrin	mg/kg	0.1	<0.10
a-BHC	mg/kg	0.1	<0.10
b-BHC	mg/kg	0.1	<0.10
d-BHC	mg/kg	0.1	<0.10
g-BHC (lindane)	mg/kg	0.1	<0.10
cis-chlordane	mg/kg	0.1	<0.10
trans-chlordane	mg/kg	0.1	<0.10
4,4'-DDD	mg/kg	0.1	<0.10
4,4'-DDE	mg/kg	0.1	<0.10
4,4'-DDT	mg/kg	0.1	<0.10
dieldrin	mg/kg	0.1	<0.10
endosulfan I	mg/kg	0.2	<0.20
endosulfan II	mg/kg	0.2	<0.20
endosulfan sulfate	mg/kg	0.1	<0.10
endrin	mg/kg	0.2	<0.20
endrin aldehyde	mg/kg	0.1	<0.10
endrin ketone	mg/kg	0.1	<0.10
heptachlor	mg/kg	0.1	<0.10
heptachlor epoxide	mg/kg	0.1	<0.10
hexachlorobenzene	mg/kg	0.1	<0.10
methoxychlor	mg/kg	0.1	<0.10
chlorpyrifos	mg/kg	0.1	<0.10
chlorpyrifos methyl	mg/kg	0.1	<0.10

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diazinon	mg/kg	0.1	<0.10
fenchlorphos	mg/kg	0.1	<0.10
methyl parathion	mg/kg	0.1	<0.10
prophos	mg/kg	0.1	<0.10
tributylphosphorotrithioite	mg/kg	0.1	<0.10
Aroclor 1016	mg/kg	0.5	<0.50
Aroclor 1221	mg/kg	0.5	<0.50
Aroclor 1232	mg/kg	0.5	<0.50
Aroclor 1242	mg/kg	0.5	<0.50
Aroclor 1248	mg/kg	0.5	<0.50
Aroclor 1254	mg/kg	0.5	<0.50
Aroclor 1260	mg/kg	0.5	<0.50

Sample ID: **Q2022003349**

Sample Name

Parameter	***Units***	***PQL***	PCB Blank Sp - Soil
ESA-P-ORG(12 - 15)			
Acenaphthene	%		92
Anthracene	%		92
Fluoranthene	%		82
Naphthalene	%		82
Phenanthrene	%		86
Pyrene	%		85
p-Terphenyl-d14 (Surr.)	%		94
aldrin	%		78
endrin	%		137
hexachlorobenzene	%		86
TCMX (Surr.)	%		97
chlorpyrifos	%		95
diazinon	%		86
2-fluorobiphenyl (Surr.)	%		96
Aroclor 1016	%		109

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Sample ID:	**Q2022003350**
Sample Name	

Parameter	*Units*	*PQL*	TRH Blank-Soil
ESA-P-ORG(3,8)			
>C10-C16	mg/kg	50	<50
>C16-C34	mg/kg	100	<100
>C34-C40	mg/kg	100	<100
>C10-C14	mg/kg	50	<50
>C15-C28	mg/kg	100	<100
>C29-C36	mg/kg	100	<100

Sample ID:	**Q2022003351**
Sample Name	

Parameter	*Units*	*PQL*	TRH Blank Spike-Soil
ESA-P-ORG(3,8)			
>C10-C16	%		113
>C10-C14	%		112

Sample ID:	**Q2022003352**
Sample Name	

Parameter	*Units*	*PQL*	PFAS Blank - Soil
ESA-P-ORG16			
PFBA	ug/kg	5	<5
PFPeA	ug/kg	5	<5
PFBS	ug/kg	5	<5
PFHxA	ug/kg	5	<5
PFPeS	ug/kg	5	<5
PFHpA	ug/kg	5	<5
PFOA	ug/kg	5	<5
PFHpS	ug/kg	5	<5
PFOS	ug/kg	5	<5
PFDA	ug/kg	5	<5
PFUdA	ug/kg	5	<5
PFDoA	ug/kg	5	<5

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PFTrDA	ug/kg	5	<5
PFTeDA	ug/kg	5	<5
PFNA	ug/kg	5	<5
PFHxS	ug/kg	5	<5
MPFBA (Surr.)	%		81
M3PFBS (Surr.)	%		85
MPFOS (Surr.)	%		130
MPFHxA (Surr.)	%		80
MPFOA (Surr.)	%		84
MPFUdA (Surr.)	%		88

Sample ID: **Q2022003353**

Sample Name

Parameter	***Units***	***PQL***	PFAS Blank Sp - Soil
ESA-P-ORG16			
PFBA	%		97
PFPeA	%		93
PFBS	%		128
PFHxA	%		129
PFPeS	%		122
PFHpA	%		128
PFOA	%		102
PFHpS	%		120
PFOS	%		104
PFDA	%		78
PFUdA	%		114
PFDoA	%		77
PFTrDA	%		112
PFTeDA	%		73
PFNA	%		124
PFHxS	%		116
MPFBA (Surr.)	%		75
M3PFBS (Surr.)	%		76
MPFOS (Surr.)	%		117

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MPFHxA (Surr.)	%		82
MPFOA (Surr.)	%		71
MPFUdA (Surr.)	%		80

Sample ID: **Q2022003356**

Sample Name

Parameter	***Units***	***PQL***	Metals Blank - Soil
ESA-MP-01,ICP-01			
Arsenic	mg/kg	5	<5.0
Cadmium	mg/kg	0.3	<0.30
Chromium	mg/kg	5	<5.0
Copper	mg/kg	5	<5.0
Lead	mg/kg	10	<10.0
Mercury	mg/kg	0.2	<0.20
Nickel	mg/kg	10	<10.0
Zinc	mg/kg	5	<5.0

Sample ID: **Q2022003357**

Sample Name

Parameter	***Units***	***PQL***	Metals Blank Sp-Soil
ESA-MP-01,ICP-01			
Arsenic	%		90
Cadmium	%		98
Chromium	%		91
Copper	%		90
Lead	%		93
Mercury	%		111
Nickel	%		93
Zinc	%		94

Sample ID: **S202201425501**

Sample Name **SES-BH1-0.0-0.2**

Parameter	***Units***	***PQL***	
ESA-P-ORG-07 & 08			
1,1-Dichloroethene	%		123

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Benzene	%		129
Trichloroethene	%		119
Toluene	%		128
Chlorobenzene	%		133
Toluene-d8 (Surr.)	%		115
1,2-Dichloroethane-d4 (Surr.)	%		108
4-Bromofluorobenzene (Surr.)	%		106
Trifluorotoluene (Surr.)	%		115

Sample ID: **S202201425502**

Sample Name **SES-BH1-0.0-0.2**

Parameter	*Units*	*PQL*	
ESA-P-ORG(12 - 15)			
Acenaphthene	%		90
Anthracene	%		90
Fluoranthene	%		84
Naphthalene	%		81
Phenanthrene	%		87
Pyrene	%		86
p-Terphenyl-d14 (Surr.)	%		96
aldrin	%		79
endrin	%		139
hexachlorobenzene	%		88
TCMX (Surr.)	%		96
chlorpyrifos	%		104
diazinon	%		87
Aroclor 1016	%		104
2-fluorobiphenyl (Surr.)	%		94

Sample ID: **S202201425503**

Sample Name **SES-BH1-0.0-0.2**

Parameter	*Units*	*PQL*	
ESA-P-ORG(3,8)			
>C10-C16	%		110
>C10-C14	%		111

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Sample ID:	**S202201425504**
Sample Name	**SES-BH1-0.0-0.2**

Parameter	*Units*	*PQL*	
ESA-P-ORG16			
PFBA	%		80
PFPeA	%		92
PFBS	%		128
PFHxA	%		119
PFPeS	%		125
PFHpA	%		102
PFOA	%		113
PFHpS	%		121
PFOS	%		101
PFDA	%		79
PFUdA	%		97
PFDoA	%		74
PFTrDA	%		98
PFTeDA	%		83
PFNA	%		124
PFHxS	%		120
MPFBA (Surr.)	%		79
M3PFBS (Surr.)	%		86
MPFOS (Surr.)	%		84
MPFHxA (Surr.)	%		92
MPFOA (Surr.)	%		72
MPFUdA (Surr.)	%		75

Sample ID:	**S202201425505**
Sample Name	**SES-BH1-0.0-0.2**

Parameter	*Units*	*PQL*	
ESA-MP-01,ICP-01			
Arsenic	%		83
Cadmium	%		103
Chromium	%		84

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Copper	%		107
Mercury	%		118

Sample ID: **S202201428601**

Sample Name

Parameter	*Units*	*PQL*	
ESA-MP-01,ICP-01			
Lead	%		98
Nickel	%		94
Zinc	%		96

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Ph: (02) 9648-6669

A.B.N. 52 093 452 950

Analysis report: 21.2041.WAC1

Laboratory LOT NO: 2202125

Date Received: 06.05.2022
Date Analysed: 10.05.2022
Report Date: 10.05.2022
Client: ADE Consulting Group
Job Location: AFJV BWD Site-Wide WAC
Analytical method: Polarised Light Microscopy with dispersion staining (ADE method ABI)

*Asbestos identification as per "National Environment Protection (Assessment of site contamination) Measure, Schedule B1" and "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" is not coverd by NATA scope of accreditation

AS 4964-2004 "Method for the qualitative identification of asbestos in bulk samples" in conjunction with AD Envirotech's ABI Methods for Polarised Light Microscopy with dispersion staining

Analysis performed by:

Kim Foley
Approved asbestos identifier

Results Authorised By:

Kim Foley
Approved Signatory

Accreditation No.14664.
Accredited for compliance with ISO/IEC 17025 - Testing.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Tests not covered by NATA are denoted with *.

General Comments:

Sydney Laboratory Services is responsible for all the information in the report, except that provided by the customer. All sampling information included in the report has been provided by the client

Information provided by the client can affect the validity of the results.

Sample analysed as received.

Samples are stored for minimum period of 1 month if longer time is not advised by client.

Asbestos ID - Identification of asbestos in soil samples using Polarised Light Microscopy and Dispersion Staining Techniques. Minimum 500mL soil sample was analysed as recommended by "National Environment Protection (Assessment of site contamination) Measure, Schedule B1 and "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.01g/kg (0.001% w/w) for friable asbestos and 0.1g/kg (0.01% w/w) for bonded asbestos.

This form of analysis is outside the scope of NATA accreditation.

Bonded asbestos containing material (bonded ACM) : Bonded ACM comprises asbestos-containing-material which is in sound condition, although possibly broken or fragmented, and where the asbestos is bound in a matrix such as cement or resin.This term is restricted to material that cannot pass a 7 mm x 7 mm sieve.

Fibrous asbestos (FA): FA comprises friable asbestos material and includes severely weathered cement sheet, insulation products and woven asbestos material. This type of friable asbestos is defined here as asbestos material that is in a degraded condition such that it can be broken or crumbled by hand pressure. This material is typically unbonded or was previously bonded and is now significantly degraded (crumbling).

Asbestos fines (AF): AF includes free fibres, small fibre bundles and also small fragments of bonded ACM that pass through a 7 mm x 7 mm sieve.

Note: The screening level of 0.001% w/w asbestos in soil for FA and AF (i.e. non-bonded/friable asbestos) only applies where the FA and AF are able to be quantified by gravimetric procedures. This screening level is not applicable to free fibres.

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The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Tests not covered by NATA are denoted with *.

Client Sample ID.	Laboratory Sample No.	Sample Description/Matrix	Sample Dimensions (cm) unless stated otherwise	Result	Comments
SES-BH1-0.0-0.2	2022014255	Soil	56 grams	No Chrysotile asbestos found at reporting	Nil
				No Amosite asbestos found at reporting	Nil
				No Crocidolite asbestos found at reporting	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
SES-BH1-0.3-0.5	2022014256	Soil	48 grams	No Chrysotile asbestos found at reporting	Nil
				No Amosite asbestos found at reporting	Nil
				No Crocidolite asbestos found at reporting	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
SES-BH1-1.0-1.2	2022014257	Soil	60 grams	No Chrysotile asbestos found at reporting	Nil
				No Amosite asbestos found at reporting	Nil
				No Crocidolite asbestos found at reporting	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
SES-BH2-0.0-0.2	2022014259	Soil	65 grams	No Chrysotile asbestos found at reporting	Nil
				No Amosite asbestos found at reporting	Nil
				No Crocidolite asbestos found at reporting	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
SES-BH2-0.3-0.5	2022014260	Soil	49 grams	No Chrysotile asbestos found at reporting	Nil
				No Amosite asbestos found at reporting	Nil
				No Crocidolite asbestos found at reporting	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
SES-BH2-1.0-1.2	2022014261	Soil	45 grams	No Chrysotile asbestos found at reporting	Nil
				No Amosite asbestos found at reporting	Nil
				No Crocidolite asbestos found at reporting	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil

Client Sample ID.	Laboratory Sample No.	Sample Description/Matrix	Sample Dimensions (cm) unless stated otherwise	Result	Comments
SES SEA1-0.0-0.2	2022014262	Soil	57 grams	No Chrysotile asbestos found at reporting	Nil
				No Amosite asbestos found at reporting	Nil
				No Crocidolite asbestos found at reporting	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
SES SEA1-0.3-0.5	2022014263	Soil	45 grams	No Chrysotile asbestos found at reporting	Nil
				No Amosite asbestos found at reporting	Nil
				No Crocidolite asbestos found at reporting	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
SES SEA3-0.0-0.2	2022014265	Soil	59 grams	No Chrysotile asbestos found at reporting	Nil
				No Amosite asbestos found at reporting	Nil
				No Crocidolite asbestos found at reporting	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
SES SEA3-0.3-0.5	2022014266	Soil	64 grams	No Chrysotile asbestos found at reporting	Nil
				No Amosite asbestos found at reporting	Nil
				No Crocidolite asbestos found at reporting	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
BH116-DEL1W-0.0-0.2	2022014267	*Soil	500 ml	No Chrysotile asbestos found	Nil
				No Amosite asbestos found	Nil
				No Crocidolite asbestos found	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
BH116-DEL1W-0.3-0.5	2022014268	*Soil	500 ml	No Chrysotile asbestos found	Nil
				No Amosite asbestos found	Nil
				No Crocidolite asbestos found	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil

Client Sample ID.	Laboratory Sample No.	Sample Description/Matrix	Sample Dimensions (cm) unless stated otherwise	Result	Comments
BH116-DEL1S-0.0-0.2	2022014269	*Soil	500 ml	No Chrysotile asbestos found	Nil
				No Amosite asbestos found	Nil
				No Crocidolite asbestos found	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
BH116-DEL1S-0.3-0.5	2022014270	*Soil	500 ml	No Chrysotile asbestos found	Nil
				No Amosite asbestos found	Nil
				No Crocidolite asbestos found	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
BH116-DEL1E-0.0-0.2	2022014271	*Soil	500 ml	No Chrysotile asbestos found	Nil
				No Amosite asbestos found	Nil
				No Crocidolite asbestos found	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
BH116-DEL1E-0.3-0.5	2022014272	*Soil	500 ml	No Chrysotile asbestos found	Nil
				No Amosite asbestos found	Nil
				No Crocidolite asbestos found	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
BH116-DEL1N-0.0-0.2	2022014273	*Soil	500 ml	No Chrysotile asbestos found	Nil
				No Amosite asbestos found	Nil
				No Crocidolite asbestos found	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
BH116-DEL1N-0.3-0.5	2022014274	*Soil	500 ml	No Chrysotile asbestos found	Nil
				No Amosite asbestos found	Nil
				No Crocidolite asbestos found	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil

Document Revision Date: 30.06.2020

ESA-F-02 COC - Chain Of Custody (SLS)

ADE CONSULTING GROUP
SOLUTIONS THROUGH INNOVATION

PROJECT:	AFJV BWD Site-Wide WAC
PROJECT NUMBER	**21.2041_BWN-WAC1**
SAMPLES DELIVERED BY:	ADE Consulting Group 6/7 Millennium Ct, Silverwater NSW 2128
SAMPLERS:	Shane Metcalfe, Richard Wang
TURNAROUND:	24h: xx 48h: 72h: ☐ 5 WORKING DAYS:
SAMPLING DATE:	05.05.2022
AFTER TEST STORAGE:	ROOM TEMP: ☐ FRIDGE: X FREEZER: ☐ > >4 WEEKS: ☐ OTHER: ☐
REPORT FORMAT:	HARD COPY: ☐ E-MAIL: X
CONSULTANTS SIGNATURE:	CONSULTANT E-MAIL: elisha.cassidy@ade.group; richard.wang@ade.group;shane.metcalfe@ade.group
PROJECT MANAGERS SIGNATURE:	PROJECT MANAGERS E-MAIL: thesan.naidoo@ade.group

LABORATORY REFERENCE NO. (Lab use ONLY):	21.2041.WAC1		
RECEIVED BY: Triyah	SIGNATURE: Tree		
SAMPLES: 2 CHILLED: ☑	PRESERVED: ☒	PRESERVATION METHOD: X	CUSTODY SEAL INTACT: ☒
MINIMAL HEADSPACE : ☐	WITHIN HOLDING TIME: ☑		
DATE: 6/5/22	TIME: 4:30pm	TEMPERATURE UPON RECEIPT: ☒	
LIMS LOT NO. 2202129	LIMS/EXCEL SIGNATURE:	COMMENTS:	

2022014.

SAMPLE DATA				CONTAINER DATA		ANALYSES REQUIRED																					NOTES
						Chem Lab														Asbestos						Mould	
LIMS Sample ID (Lab Use)	Sample ID (ADE)	MATRIX	SAMPLE DATE	TYPE & PRESERVATIVE	NO.	6 Metal Suite	8 Metal Suite	BTEX	PAH	OCP/OPP	PCB	vTRH (C6-C10)	TRH (C10-C40)	pH/EC	pH/pH fox	Standard suite	Bulk	Dust	Dust Swab	Soil 65g	Soil 500g NEPM	Airborne Asbesos Monitoring	Mould				
289	TB	W	05.05.2022	WATER	1			X																			POTENTIAL HAZARDOUS CONTAMINANTS: ☑ ASBESTOS ☐ HYDROCARBONS ☐ LEAD/ARSENIC ☐ NO KNOWN CONTAMINATION ☐ OTHER:_____
~~289~~ 290	TS	W	05.05.2022	WATER	2			X																			LAB PLEASE *EMAIL COC RECEIPT: ☑
																											Sample Comments

Comments:

Container Type and Preservative: P = Unpreserved Plastic; PN = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; PNA = Sodium Hydroxide Preserved Plastic; PC = HCl preserved Plastic; VC = Vial HCl Preserved; SP = Sulfuric Preserved Plastic; VB = Vial Sodium Bisulphate Preserved; VS = Vial Sulfuric Preserved; V = Unpreserved Vial; G = Amber Glass Unpreserved; SG = Sulfuric Preserved Amber Glass; F = Formaldehyde Preserved Glass; HS = HCl preserved Speciation bottle; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottle; ST = Sterile Bottle; J = Unpreserved Glass Jar; ASS = Plastic Bag for Acid Sulfate Soils; B = Unpreserved Bag.

Due: 10.05.22

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Sydney Laboratory Services

A division of A. D. Envirotech Australia Pty Ltd
A.C.N. 093 452 950
Unit 4/10-11 Millennium Court,
Silverwater 2128
Ph: (02) 9648-6669

Accreditation No.14664
Accredited for compliance with ISO/IEC 17025 - Testing.

SAMPLE RECEIPT NOTIFICATION (SRN)

Contact: Thesan Naidoo / Shane Metcalfe / Richard Wang
Project name: 21.2041.WAC1
Number of samples: 2
COC number: 21.2041.WAC1
Turn around time: 24hr
Date: 06/05/2022
Time received: 4:30pm
SLS Reference: 2202129
Estimated Report Delivery Date: 10/05/2022

Sample information

☑	All samples have been received and logged into LIMS.
☑	No mistakes in the COC
☑	Evidence of chilling for samples
N/A	Samples were preserved
N/A	Custody seal intact
☑	Samples were delivered within holding time
☑	Samples to be tested for volatiles had zero headspace
☑	All samples were received in good condition (no broken jars, labelled correctly…).
☐	Samples have been subcontracted

Comments

This report contains:
Sample receipt non-conformities
Summary of samples and requested analysis
Requested report deliverables

Asbestos Samples are reported as per the State EPA guidelines

Contact details

If you have any questions with respect to these samples please contact:
sls@ade.group

Trianah Tumbridge

Sydney Laboratory Services

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Silverwater 2128
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SAMPLE RECEIPT NOTIFICATION (SRN)

Laboratory Sample ID	Client Sample ID	8 Metal Suite	BTEX	PAH	OCP/OPP	PCB	vTRH (C6 - C10)	TRH (C10 - C40)	pH/EC	pH/pH fix	VOC's	PFAS	Bulk	Dust	Dust Swab	Soil 65 grams	SOIl 500 g NEPM	AAM
2022014289	TB		X															
2022014290	TS		X															

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Accreditation No.14664
Accredited for compliance with ISO/IEC 17025 - Testing.

This certificate of analysis contains General Comments and Analytical Results. Quality Control Report and Laboratory Quality Acceptance Criteria have been issued separately.

This report supersedes any previous report(s) with this reference. This document shall not be reproduced, except in full.

This report has been electronically signed by authorised signatories below.

Authorised By

Kaiyu Li

General Comments

Samples are analysed on as received basis. Sampling is not covered by NATA accreditation.

Where moisture determination has been performed, results are reported on dry weight basis.

Where the PQL of reported result differs from standard PQL, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Samples were analysed within holding time described by laboratory internal procedures if not stated otherwise. If samples delivered do not meet required analytical criteria, results will be marked with ^.

However surrogate standards are added to samples, results are not corrected for standards recoveries.

Analysis of VOC in water samples are performed on unfiltered waters (as received) spiked with surrogates and injection standards only.

SLS is responsible for all the information in the report, except that provided by the customer.

All sampling information included in the report has been provided by customer.

Information provided by the customer can affect the validity of the results.

Certificate of Analysis

Contact:	Thesan Naidoo	**Date Reported:**	10/05/2022
Customer:	ADE Consulting Group	**No. of Samples:**	2
Address:	Unit 6 7 Millennium Court Silverwater NSW	**Date Received:**	9/05/2022
		Date of Analysis:	9/05/2022

Cust Ref: 21.2041.BWN.WAC1

Glossary:

*NATA accreditation does not cover the performance of this service
ND-not detected,
NT-not tested
INS-Insufficient material to perform the test
LCS-Laboratory Control Sample
RPD-Relative Percent Difference
N/A-Not Applicable
< less than
> greater than
PQL- Practical Quantitation Limit
^Analytical result might be compromised due to sample condition or holding time requirements
Reaction rate 1 = Slight
Reaction rate 2 = Moderate
Reaction rate 3 = High
Reaction rate 4 = Vigorous

Certificate of Analysis

	Sample ID:	2022014289	2022014290
	Sample Name	TB	TS
Parameter	Units	PQL	
ESA-P-ORG08 & ORG10			
Benzene		1	<1 ug/L	105%
Toluene		1	<1 ug/L	95%
Ethylbenzene		1	<1 ug/L	91%
m,p Xylene		2	<2 ug/L	93%
o Xylene		1	<1 ug/L	95%
Fluorobenzene (Surr.)	%		133	89

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A.C.N. 093 452 950
Unit 4/10-11 Millennium Court,
Silverwater 2128
Ph: (02) 9648-6669

Accreditation No.14664
Accredited for compliance with ISO/IEC 17025 - Testing.

This Quality Control Report contains results of QAQC samples analysis and the Laboratory Acceptance Criteria.

This report supersedes any previous report(s) with this reference. This document shall not be reproduced, except in full.

This report has been electronically signed by authorised signatories below.

Authorised By

Kaiyu Li

General Comments

Duplicate samples and matrix spike may not be prepared on smaller jobs, however are analysed at frequency. QAQC samples shown within the report as e.g. Batch Blank, Batch Matrix Spike were performed on samples not reported on that Certificate of Analysis.

Blank This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in the same manner as for samples.
Duplicate This is the interlaboratory split of a random sample from the processed batch
Matrix Spike A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample): This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class.
Surr. (Surrogate Spike) Surrogates are known additions to each sample, blank and matrix spike or LCS in a batch. Surrogates are chosen as a compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Blank shall be < PQL
Matrix Spikes and LCS: Generally 70-130% for inorganics/metals/PFAS, 60-140% for organics is acceptable. Matrix heterogeneity may result in matrix spike analyses falling outside these limits
RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:
Results <10 times the PQL : No Limit
Results between 10-20 times the PQL : RPD must lie between 0-50%
Results >20 times the PQL : RPD must lie between 0-30%
Surrogate Recoveries : Recoveries must lie between 50-150%

SLS is responsible for all the information in the report, except that provided by the customer.

All sampling information included in the report has been provided by customer.

Information provided by the customer can affect the validity of the results.

Quality Control Report

Contact:	Thesan Naidoo	**Date Reported:**	10/05/2022
Customer:	ADE Consulting Group	**No. of Samples:**	5
Address:	Unit 6 7 Millennium Court Silverwater NSW	**Date Received:**	9/05/2022
		Date of Analysis:	9/05/2022

Cust Ref: 21.2041.BWN.WAC1

Glossary:

*NATA accreditation does not cover the performance of this service
ND-not detected,
NT-not tested
INS-Insufficient material to perform the test
LCS-Laboratory Control Sample
RPD-Relative Percent Difference
N/A-Not Applicable
< less than
> greater than
PQL- Practical Quantitation Limit
^Analytical result might be compromised due to sample condition or holding time requirements
Reaction rate 1 = Slight
Reaction rate 2 = Moderate
Reaction rate 3 = High
Reaction rate 4 = Vigorous

Quality Control Report

	Sample ID:	D202201402302	D202201403202
	Sample Name	22 Rowley-TP2	3 Meldrum-TP2
Parameter	Units	PQL		
ESA-P-ORG7 & ORG8				
Benzene			Pass	Pass
Toluene			Pass	Pass
Ethylbenzene			Pass	Pass
m.p Xylene			Pass	Pass
o Xylene			Pass	Pass
Fluorobenzene (Surr.)	%		90	91

	Sample ID:	Q2022003300
	Sample Name	
Parameter	Units	PQL	BTEX Blank - Soil
ESA-P-ORG7 & ORG8			
Benzene	mg/kg	0.5	<0.50
Toluene	mg/kg	0.5	<0.50
Ethylbenzene	mg/kg	1	<1.0
m.p Xylene	mg/kg	2	<2.0
o Xylene	mg/kg	1	<1.0

		Sample ID:	**Q2022003301**
		Sample Name	
Parameter	***Units***	***PQL***	BTEX Blank Sp-Soil
ESA-P-ORG7 & ORG8			
Benzene	%		105
Toluene	%		98
Ethylbenzene	%		97
m.p Xylene	%		98
o Xylene	%		97
Fluorobenzene (Surr.)	%		91

		Sample ID:	**S202201402202**
		Sample Name	**22 Rowley-TP1**
Parameter	***Units***	***PQL***	
ESA-P-ORG-07 & 08			
Benzene	%		137
Toluene	%		119
Ethylbenzene	%		112
m.p Xylene	%		114
o Xylene	%		113
Fluorobenzene (Surr.)	%		112

Document Revision Date: 30.06.2020

ESA-F-02 COC - Chain Of Custody (Internal: Sydney Laboratory Services)

ADE CONSULTING GROUP
SOLUTIONS THROUGH INNOVATION

PROJECT:	AFJV BWN Site-Wide WAC
PROJECT NUMBER - INVOICE NUMBER	21.2041_BWN-WAC1 (Site-Wide)
SAMPLES DELIVERED BY:	ADE Consulting Group
	6/7 Millennium Ct, Silverwater NSW 2128
SAMPLERS:	Elisha Cassidy & Richard Wang
TURNAROUND:	24h:XX 48h: 72h: 5 WORKING DAYS:
SAMPLING DATE:	06.05.2022
AFTER TEST STORAGE:	ROOM TEMP: ☐ FRIDGE: X FREEZER: ☐ >>4 WEEKS: ☐ OTHER: ☐
REPORT FORMAT:	HARD COPY: ☐ E-MAIL: X
CONSULTANTS SIGNATURE:	elisha.cassidy@ade.group; ; richard.wang @ade.group
PROJECT MANAGERS SIGNATURE:	thesan.naidoo@ade.group

LABORATORY REFERENCE NO. (Lab use ONLY):	21·2041·WAC1
RECEIVED BY: Trianah	SIGNATURE: Tree
SAMPLES: 24 CHILLED: ☐	PRESERVED: ☒ PRESERVATION METHOD: X CUSTODY SEAL INTACT: ☐ X
MINIMAL HEADSPACE : ☐	WITHIN HOLDING TIME: ☐
DATE: 09/05/22	TIME: 2:00pm TEMPERATURE UPON RECEIPT: °C
LIMS LOT NO. 220150	LIMS/EXCEL SIGNATURE: COMMENTS:

2022014..

LIMS Sample ID (Lab Use)	Sample ID (ADE)	MATRIX	SAMPLE DATE	CONTAINER DATA: TYPE & PRESERVATIVE	CONTAINER DATA: NO.	ANALYSES REQUIRED: Chem Lab: 6 Metal Suite	8 Metal Suite	BTEX	PAH	OCP/OPP	PCB	vTRH (C6-C10)	TRH (C10-C40)	pH/EC	pH/pH fox	PFAS	VOC's	Asbestos: Bulk	Dust	Dust Swab	Soil 65g	Soil 500g NEPM	Airborne Asbesos Monitoring	Mould
404	SES-BH3-0.0-0.2	Soil	06.05.2022	G, B, P	1		X	X	X	X	X	X	X			X	X				X			
405	SES-BH3-0.3-0.5	Soil	06.05.2022	G, B	2		X	X	X	X	X	X	X								X			
406	SES-BH3-1.0-1.2	Soil	06.05.2022	G, B, P	3		X	X	X	X	X	X	X			X	X				X			
407	SES-BH4-0.0-0.2	Soil	06.05.2022	G, B, P	5		X	X	X	X	X	X	X			X	X				X			
408	SES-BH4-BR3	Soil	06.05.2022	G	6		X	X	X	X	X	X	X											
409	SES-BH4-0.3-0.5	Soil	06.05.2022	G, B, P	7		X	X	X	X	X	X	X			X	X				X			
410	SES-BH4-1.0-1.2	Soil	06.05.2022	G, B	8		X	X	X	X	X	X	X								X			
411	SES-BH4-1.2-1.3	Soil	06.05.2022	G,B	9		X	X	X	X	X	X	X								X			
412	SES SEA3-0.0-0.3	Soil	06.05.2022	G, B	10		X	X	X	X	X	X	X								X			
413	SES SEA3-0.3-0.5	Soil	06.05.2022	G, B, P	11		X	X	X	X	X	X	X			X	X				X			
414	ADE_TP107_0.0-0.2	Soil	06.05.2022	G, B, P	12		X	X	X	X	X	X	X			X	X				X			
415	ADE_TP107_0.3-0.5	Soil	06.05.2022	G,B	13		X	X	X	X	X	X	X								X			
416	ADE_TP107_1.0-1.2	Soil	06.05.2022	G,B,P	14		X	X	X	X	X	X	X			X	X				X			
417	ADE_TP107_1.3-1.5	Soil	06.05.2022	G,B	15		X	X	X	X	X	X	X								X			
419	BH123-DEL1W_0.0-0.2	Soil	06.05.2022	B	16																	X		
420	BH123-DEL1W_0.3-0.5	Soil	06.05.2022	B	17																	X		
421	BH123-DEL1N_0.0-0.2	Soil	06.05.2022	B	18																	X		
422	BH123-DEL1N_0.3-0.5	Soil	06.05.2022	B	19																	X		
423	BH123-DEL1S_0.0-0.2	Soil	06.05.2022	B	20																	X		
424	BH123-DEL1S_0.3-0.5	Soil	06.05.2022	B	21																	X		
425	BH123-DEL1E_0.0-0.2	Soil	06.05.2022	B	22																	X		
426	BH123-DEL1E_0.3-0.5	Soil	06.05.2022	B	23																	X		
427	ERM_DEL4_0.0-0.2	Soil	06.05.2022	B	24																	X		
428	ERM_DEL4_0.3-0.5	Soil	06.05.2022	B	25																	X		

NOTES

POTENTIAL HAZARDOUS CONTAMINANTS:

☐ ASBESTOS ☐ HYDROCARBONS
☐ LEAD/ARSENIC ☐ NO KNOWN CONTAMINATION
☐ OTHER:_____

LAB PLEASE *EMAIL COC RECEIPT: ☐

Sample Comments

PFAS LOR set at 5µg/kg

Please do TCLP Prep on ALL samples

No TCLP prep needed on sample numbers 16-25

Comments:

Container Type and Preservative: P = Unpreserved Plastic; PN = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; PNA = Sodium Hydroxide Preserved Plastic; PC = HCl preserved Plastic; VC = Vial HCl Preserved; SP = Sulfuric Preserved Plastic; VB = Vial Sodium Bisulphate Preserved; VS = Vial Sulfuric Preserved; V = Unpreserved Vial; G = Amber Glass Unpreserved; SG = Sulfuric Preserved Amber Glass; F = Formaldehyde Preserved Glass; HS = HCl preserved Speciation bottle; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottle; ST = Sterile Bottle; J = Unpreserved Glass Jar; ASS = Plastic Bag for Acid Sulfate Soils; B = Unpreserved Bag.

Due: 16·05·22

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Sydney Laboratory Services

A division of A. D. Envirotech Australia Pty Ltd
A.C.N. 093 452 950
Unit 4/10-11 Millennium Court,
Silverwater 2128
Ph: (02) 9648-6669

Accreditation No.14664
Accredited for compliance with ISO/IEC 17025 - Testing.

SAMPLE RECEIPT NOTIFICATION (SRN)

Contact: Thesan Naidoo / Elisha Cassidy / Richard Wang
Project name: 21.2041.WAC1
Number of samples: 24
COC number: 21.2041.WAC1
Turn around time: 24hr
Date: 09/05/2022
Time received: 2:00pm
SLS Reference: 2202150
Estimated Report Delivery Date: 10/05/2022

Sample information

☑	All samples have been received and logged into LIMS.
☑	No mistakes in the COC
☑	Evidence of chilling for samples
N/A	Samples were preserved
N/A	Custody seal intact
☑	Samples were delivered within holding time
☑	Samples to be tested for volatiles had zero headspace
☑	All samples were received in good condition (no broken jars, labelled correctly…).
☐	Samples have been subcontracted

Comments

This report contains:
Sample receipt non-conformities
Summary of samples and requested analysis
Requested report deliverables

Asbestos Samples are reported as per the State EPA guidelines

Contact details

If you have any questions with respect to these samples please contact:
sls@ade.group

Trianah Tumbridge

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SAMPLE RECEIPT NOTIFICATION (SRN)

Laboratory Sample ID	Client Sample ID	8 Metal Suite	BTEX	PAH	OCP/OPP	PCB	vTRH (C6 - C10)	TRH (C10 - C40)	pH/EC	pH/pH fox	VOC's	PFAS	Bulk	Dust	Dust Swab	Soil 65 grams	SOIl 500 g NEPM	AAM
2022014404	SES-BH3-0.0-0.2	X	X	X	X	X	X	X			X	X				X		
2022014405	SES-BH3-0.3-0.5	X	X	X	X	X	X	X								X		
2022014406	SES-BH3-1.0-1.2	X	X	X	X	X	X	X			X	X				X		
2022014407	SES-BH4-0.0-0.2	X	X	X	X	X	X	X			X	X				X		
2022014408	SES-BH4-BR3	X	X	X	X	X	X	X										
2022014409	SES-BH4-0.3-0.5	X	X	X	X	X	X	X			X	X				X		
2022014410	SES-BH4-1.0-1.2	X	X	X	X	X	X	X								X		
2022014411	SES-BH4-1.2-1.3	X	X	X	X	X	X	X								X		
2022014412	SES-SEA3-0.0-0.3	X	X	X	X	X	X	X								X		
2022014413	SES-SEA3-0.3-0.5	X	X	X	X	X	X	X			X	X				X		
2022014414	TP107-0.0-0.2	X	X	X	X	X	X	X			X	X				X		
2022014415	TP107-0.3-0.5	X	X	X	X	X	X	X								X		
2022014416	TP107-1.0-1.2	X	X	X	X	X	X	X			X	X				X		
2022014417	TP107-1.3-1.5	X	X	X	X	X	X	X								X		
2022014419	BH123-DEL1W_0.0-0.2																X	
2022014420	BH123-DEL1W_0.3-0.5																X	
2022014421	BH123-DEL1N_0.0-0.2																X	
2022014422	BH123-DEL1N_0.3-0.5																X	
2022014423	BH123-DEL1S_0.0-0.2																X	
2022014424	BH123-DEL1S_0.3-0.5																X	
2022014425	BH123-DEL1E_0.0-0.2																X	
2022014426	BH123-DEL1E_0.3-0.5																X	
2022014427	ERM-DEL4_0.0-0.2																X	
2022014428	ERM-DEL4_0.3-0.5																X	

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Accreditation No.14664
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This certificate of analysis contains General Comments and Analytical Results. Quality Control Report and Laboratory Quality Acceptance Criteria have been issued separately.

This report supersedes any previous report(s) with this reference. This document shall not be reproduced, except in full.

This report has been electronically signed by authorised signatories below.

Authorised By

Kaiyu Li

General Comments

Samples are analysed on as received basis. Sampling is not covered by NATA accreditation.

Where moisture determination has been performed, results are reported on dry weight basis.

Where the PQL of reported result differs from standard PQL, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Samples were analysed within holding time described by laboratory internal procedures if not stated otherwise. If samples delivered do not meet required analytical criteria, results will be marked with ^.

However surrogate standards are added to samples, results are not corrected for standards recoveries.

Analysis of VOC in water samples are performed on unfiltered waters (as received) spiked with surrogates and injection standards only.

SLS is responsible for all the information in the report, except that provided by the customer.

All sampling information included in the report has been provided by customer.

Information provided by the customer can affect the validity of the results.

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Silverwater 2128
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Certificate of Analysis

Contact:	Thesan Naidoo	**Date Reported:**	10/05/2022
Customer:	ADE Consulting Group	**No. of Samples:**	14
Address:	Unit 6 7 Millennium Court Silverwater NSW	**Date Received:**	9/05/2022
		Date of Analysis:	9/05/2022
Cust Ref:	21.2041.BWN.WAC1		

Glossary:

*NATA accreditation does not cover the performance of this service
ND-not detected,
NT-not tested
INS-Insufficient material to perform the test
LCS-Laboratory Control Sample
RPD-Relative Percent Difference
N/A-Not Applicable
< less than
> greater than
PQL- Practical Quantitation Limit
^Analytical result might be compromised due to sample condition or holding time requirements
Reaction rate 1 = Slight
Reaction rate 2 = Moderate
Reaction rate 3 = High
Reaction rate 4 = Vigorous

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Certificate of Analysis

	Sample ID:	2022014404	2022014405	2022014406	2022014407	2022014408	2022014409	2022014410	2022014411	2022014412	2022014413	2022014414
	Sample Name	SES-BH3-0.0-0.2	SES-BH3-0.3-0.5	SES-BH3-1.0-1.2	SES-BH4-0.0-0.2	SES-BH4-BR3	SES-BH4-0.3-0.5	SES-BH4-1.0-1.2	SES-BH4-1.2-1.3	SES-SEA3-0.0-0.3	SES-SEA3-0.3-0.5	ADE-TP107-0.0-0.2
Parameter	Units	PQL										
ESA-MP-01,ICP-01												
Arsenic	mg/kg	5	<5.0	7.2	11.8	15.5	20.5	14.1	20.9	6.9	8.6	13.0	<5.0
Cadmium	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Chromium	mg/kg	5	8.5	14.9	16.7	20.3	26.5	21.1	6.1	<5.0	15.6	18.5	96.4
Copper	mg/kg	5	24.0	15.3	8.0	6.4	6.8	6.3	13.7	7.2	24.5	11.2	23.5
Lead	mg/kg	10	334.9	86.9	14.9	10.7	21.6	13.7	<10.0	<10.0	88.7	<10.0	<10.0
Mercury	mg/kg	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Nickel	mg/kg	10	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	93.9
Zinc	mg/kg	5	97.0	26.7	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	143.9	9.9	52.9
ESA-P-12													
% Moisture Content	%		16.5	17.7	21.5	29.6	29.1	29.8	10.1	24.1	24.8	19.9	14.8
ESA-P-ORG(12 - 15)													
Acenaphthene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Acenaphthylene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Anthracene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo[a]anthracene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo[a]pyrene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo[b]fluoranthene	mg/kg	0.3	<0.30	0.39	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	0.35	<0.30	<0.30
Benzo[g,h,i]perylene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo[k]fluoranthene	mg/kg	0.3	<0.30	0.36	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	0.33	<0.30	<0.30
Chrysene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Dibenzo[a,h]anthracene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Fluoranthene	mg/kg	0.3	<0.30	0.44	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Fluorene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Indeno(1,2,3-cd)pyrene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Naphthalene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Phenanthrene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Pyrene	mg/kg	0.3	<0.30	0.44	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30

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Sum of Positive PAHs	mg/kg	0.3	<0.30	1.63	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	0.68	<0.30	<0.30
Benzo(a)pyrene TEQ (Zero)	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo(a)pyrene TEQ (Half PQL)	mg/kg	0.3	0.36	0.41	0.36	0.36	0.36	0.36	0.36	0.36	0.40	0.36	0.36
Benzo(a)pyrene TEQ (PQL)	mg/kg	0.3	0.73	0.74	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73
p-Terphenyl-d14 (Surr.)	%		81	75	81	82	86	73	77	69	78	81	74
aldrin	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
a-BHC	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
b-BHC	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
d-BHC	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
g-BHC (lindane)	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
cis-chlordane	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
trans-chlordane	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
4,4'-DDD	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
4,4'-DDE	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
4,4'-DDT	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
dieldrin	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
endosulfan I	mg/kg	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
endosulfan II	mg/kg	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
endosulfan sulfate	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
endrin	mg/kg	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
endrin aldehyde	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
endrin ketone	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
heptachlor	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
heptachlor epoxide	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
hexachlorobenzene	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
methoxychlor	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TCMX (Surr.)	%		118	108	127	130	129	119	106	107	136	133	110
chlorpyrifos	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
chlorpyrifos methyl	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
diazinon	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
fenchlorphos	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
methyl parathion	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
prophos	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10

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tributylphosphorotrithioite	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor 1016	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1221	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1232	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1242	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1248	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1254	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1260	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
2-fluorobiphenyl (Surr.)	%		104	94	108	108	108	94	96	90	105	105	99
ESA-P-ORG16													
PFBA	ug/kg	5	<5	-	<5	<5	-	<5	-	-	-	<5	<5
PFPeA	ug/kg	5	<5	-	<5	<5	-	<5	-	-	-	<5	<5
PFBS	ug/kg	5	<5	-	<5	<5	-	<5	-	-	-	<5	<5
PFHxA	ug/kg	5	<5	-	<5	<5	-	<5	-	-	-	<5	<5
PFPeS	ug/kg	5	<5	-	<5	<5	-	<5	-	-	-	<5	<5
PFHpA	ug/kg	5	<5	-	<5	<5	-	<5	-	-	-	<5	<5
PFOA	ug/kg	5	<5	-	<5	<5	-	<5	-	-	-	<5	<5
PFHpS	ug/kg	5	<5	-	<5	<5	-	<5	-	-	-	<5	<5
PFOS	ug/kg	5	<5	-	<5	<5	-	<5	-	-	-	<5	<5
PFDA	ug/kg	5	<5	-	<5	<5	-	<5	-	-	-	<5	<5
PFUdA	ug/kg	5	<5	-	<5	<5	-	<5	-	-	-	<5	<5
PFDoA	ug/kg	5	<5	-	<5	<5	-	<5	-	-	-	<5	<5
PFTrDA	ug/kg	5	<5	-	<5	<5	-	<5	-	-	-	<5	<5
PFTeDA	ug/kg	5	<5	-	<5	<5	-	<5	-	-	-	<5	<5
PFNA	ug/kg	5	<5	-	<5	<5	-	<5	-	-	-	<5	<5
PFHxS	ug/kg	5	<5	-	<5	<5	-	<5	-	-	-	<5	<5
MPFBA (Surr.)	%		75	-	76	77	-	76	-	-	-	71	73
M3PFBS (Surr.)	%		74	-	79	89	-	84	-	-	-	75	87
MPFOS (Surr.)	%		83	-	115	103	-	117	-	-	-	88	108
MPFHxA (Surr.)	%		83	-	92	102	-	89	-	-	-	88	85
MPFOA (Surr.)	%		71	-	86	96	-	85	-	-	-	84	92
MPFUdA (Surr.)	%		80	-	91	115	-	95	-	-	-	88	89

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ESA-P-ORG(3,8)													
>C10-C16	mg/kg	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
>C16-C34	mg/kg	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
>C34-C40	mg/kg	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
>C10-C40 (Sum of total)	mg/kg	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
>C10-C14	mg/kg	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
>C15-C28	mg/kg	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
>C29-C36	mg/kg	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
>C10-C36 (Sum of total)	mg/kg	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
ESA-P-ORG07 & ORG08													
Benzene	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Toluene	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylbenzene	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
m.p Xylene	mg/kg	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
o Xylene	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Sum of BTEX	mg/kg	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total Xylenes	mg/kg	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	mg/kg	0.5	<0.50	-	<0.50	<0.50	-	<0.50	-	-	-	<0.50	<0.50
Sum of MAHs	mg/kg	1	<1.0	-	<1.0	<1.0	-	<1.0	-	-	-	<1.0	<1.0
vNaphthalene	mg/kg	0.5	<0.50	-	<0.50	<0.50	-	<0.50	-	-	-	<0.50	<0.50
C6-C9 Conc.	mg/kg	35	<35	<35	<35	<35	<35	<35	<35	<35	<35	<35	<35
C6-C10 Conc.	mg/kg	35	<35	<35	<35	<35	<35	<35	<35	<35	<35	<35	<35
C6-C10 minus BTEX (F1)	mg/kg	35	<35	<35	<35	<35	<35	<35	<35	<35	<35	<35	<35
Vinyl Chloride	mg/kg	0.5	<0.50	-	<0.50	<0.50	-	<0.50	-	-	-	<0.50	<0.50
trans-1,2-Dichloroethene	mg/kg	0.5	<0.50	-	<0.50	<0.50	-	<0.50	-	-	-	<0.50	<0.50
Methylene chloride	mg/kg	0.5	<0.50	-	<0.50	<0.50	-	<0.50	-	-	-	<0.50	<0.50
cis-1,2-Dichloroethene	mg/kg	0.5	<0.50	-	<0.50	<0.50	-	<0.50	-	-	-	<0.50	<0.50
Bromochloromethane	mg/kg	0.5	<0.50	-	<0.50	<0.50	-	<0.50	-	-	-	<0.50	<0.50
Chloroform	mg/kg	0.5	<0.50	-	<0.50	<0.50	-	<0.50	-	-	-	<0.50	<0.50
1,1,1-Trichloroethane	mg/kg	0.5	<0.50	-	<0.50	<0.50	-	<0.50	-	-	-	<0.50	<0.50
1,2-Dichloroethane	mg/kg	0.5	<0.50	-	<0.50	<0.50	-	<0.50	-	-	-	<0.50	<0.50
Carbon tetrachloride	mg/kg	0.5	<0.50	-	<0.50	<0.50	-	<0.50	-	-	-	<0.50	<0.50
1,1,2-Trichloroethane	mg/kg	0.5	<0.50	-	<0.50	<0.50	-	<0.50	-	-	-	<0.50	<0.50

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Tetrachloroethene	mg/kg	0.5	<0.50	-	<0.50	<0.50	-	<0.50	-	-	-	<0.50	<0.50
1,1,1,2-Tetrachloroethane	mg/kg	0.5	<0.50	-	<0.50	<0.50	-	<0.50	-	-	-	<0.50	<0.50
1,1,2,2-Tetrachloroethane	mg/kg	0.5	<0.50	-	<0.50	<0.50	-	<0.50	-	-	-	<0.50	<0.50
1,2-Dichlorobenzene	mg/kg	0.5	<0.50	-	<0.50	<0.50	-	<0.50	-	-	-	<0.50	<0.50
1,4-Dichlorobenzene	mg/kg	0.5	<0.50	-	<0.50	<0.50	-	<0.50	-	-	-	<0.50	<0.50
1,2,4-Trichlorobenzene	mg/kg	0.5	<0.50	-	<0.50	<0.50	-	<0.50	-	-	-	<0.50	<0.50
Hexachlorobutadiene	mg/kg	0.5	<0.50	-	<0.50	<0.50	-	<0.50	-	-	-	<0.50	<0.50
1,1-Dichloroethene	mg/kg	0.5	<0.50	-	<0.50	<0.50	-	<0.50	-	-	-	<0.50	<0.50
Trichloroethene	mg/kg	0.5	<0.50	-	<0.50	<0.50	-	<0.50	-	-	-	<0.50	<0.50
Chlorobenzene	mg/kg	0.5	<0.50	-	<0.50	<0.50	-	<0.50	-	-	-	<0.50	<0.50
Sum of Chlorinated Hydrocarbons	mg/kg	0.5	<0.50	-	<0.50	<0.50	-	<0.50	-	-	-	<0.50	<0.50
Other Chlorinated Hydrocarbon	mg/kg	0.5	<0.50	-	<0.50	<0.50	-	<0.50	-	-	-	<0.50	<0.50
Toluene-d8 (Surr.)	%		92	85	77	75	74	81	75	77	75	73	76
1,2-Dichloroethane-d4 (Surr.)	%		99	65	73	77	72	72	74	73	75	77	75
4-Bromofluorobenzene (BFB) (Surr.)	%		89	75	70	77	70	72	72	71	70	71	70
Trifluorotoluene (Surr.)	%		99	87	71	84	72	82	81	82	75	80	77

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Certificate of Analysis

	Sample ID:	2022014415	2022014416	2022014417
	Sample Name	ADE-TP107-0.3-0.5	ADE-TP107-1.0-1.2	ADE-TP107-1.3-1.5
Parameter	Units	PQL		
ESA-MP-01,ICP-01				
Arsenic	mg/kg	5	13.7	8.3	16.1
Cadmium	mg/kg	0.3	<0.30	<0.30	<0.30
Chromium	mg/kg	5	21.2	15.6	11.9
Copper	mg/kg	5	12.7	11.4	5.3
Lead	mg/kg	10	11.9	22.6	<10.0
Mercury	mg/kg	0.2	<0.20	<0.20	<0.20
Nickel	mg/kg	10	13.0	<10.0	<10.0
Zinc	mg/kg	5	18.6	37.5	<5.0
ESA-P-12				
% Moisture Content	%		14.1	15.9	18.7
ESA-P-ORG(12 - 15)				
Acenaphthene	mg/kg	0.3	<0.30	<0.30	<0.30
Acenaphthylene	mg/kg	0.3	<0.30	<0.30	<0.30
Anthracene	mg/kg	0.3	<0.30	<0.30	<0.30
Benzo[a]anthracene	mg/kg	0.3	<0.30	<0.30	<0.30
Benzo[a]pyrene	mg/kg	0.3	<0.30	<0.30	<0.30
Benzo[b]fluoranthene	mg/kg	0.3	<0.30	<0.30	<0.30
Benzo[g,h,i]perylene	mg/kg	0.3	<0.30	<0.30	<0.30
Benzo[k]fluoranthene	mg/kg	0.3	<0.30	<0.30	<0.30
Chrysene	mg/kg	0.3	<0.30	<0.30	<0.30
Dibenzo[a,h]anthracene	mg/kg	0.3	<0.30	<0.30	<0.30
Fluoranthene	mg/kg	0.3	<0.30	<0.30	<0.30
Fluorene	mg/kg	0.3	<0.30	<0.30	<0.30
Indeno(1,2,3-cd)pyrene	mg/kg	0.3	<0.30	<0.30	<0.30
Naphthalene	mg/kg	0.3	<0.30	<0.30	<0.30
Phenanthrene	mg/kg	0.3	<0.30	<0.30	<0.30
Pyrene	mg/kg	0.3	<0.30	<0.30	<0.30

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Sum of Positive PAHs	mg/kg	0.3	<0.30	<0.30	<0.30
Benzo(a)pyrene TEQ (Zero)	mg/kg	0.3	<0.30	<0.30	<0.30
Benzo(a)pyrene TEQ (Half PQL)	mg/kg	0.3	0.36	0.36	0.36
Benzo(a)pyrene TEQ (PQL)	mg/kg	0.3	0.73	0.73	0.73
p-Terphenyl-d14 (Surr.)	%		73	75	75
aldrin	mg/kg	0.1	<0.10	<0.10	<0.10
a-BHC	mg/kg	0.1	<0.10	<0.10	<0.10
b-BHC	mg/kg	0.1	<0.10	<0.10	<0.10
d-BHC	mg/kg	0.1	<0.10	<0.10	<0.10
g-BHC (lindane)	mg/kg	0.1	<0.10	<0.10	<0.10
cis-chlordane	mg/kg	0.1	<0.10	<0.10	<0.10
trans-chlordane	mg/kg	0.1	<0.10	<0.10	<0.10
4,4'-DDD	mg/kg	0.1	<0.10	<0.10	<0.10
4,4'-DDE	mg/kg	0.1	<0.10	<0.10	<0.10
4,4'-DDT	mg/kg	0.1	<0.10	<0.10	<0.10
dieldrin	mg/kg	0.1	<0.10	<0.10	<0.10
endosulfan I	mg/kg	0.2	<0.20	<0.20	<0.20
endosulfan II	mg/kg	0.2	<0.20	<0.20	<0.20
endosulfan sulfate	mg/kg	0.1	<0.10	<0.10	<0.10
endrin	mg/kg	0.2	<0.20	<0.20	<0.20
endrin aldehyde	mg/kg	0.1	<0.10	<0.10	<0.10
endrin ketone	mg/kg	0.1	<0.10	<0.10	<0.10
heptachlor	mg/kg	0.1	<0.10	<0.10	<0.10
heptachlor epoxide	mg/kg	0.1	<0.10	<0.10	<0.10
hexachlorobenzene	mg/kg	0.1	<0.10	<0.10	<0.10
methoxychlor	mg/kg	0.1	<0.10	<0.10	<0.10
TCMX (Surr.)	%		117	122	91
chlorpyrifos	mg/kg	0.1	<0.10	<0.10	<0.10
chlorpyrifos methyl	mg/kg	0.1	<0.10	<0.10	<0.10
diazinon	mg/kg	0.1	<0.10	<0.10	<0.10
fenchlorphos	mg/kg	0.1	<0.10	<0.10	<0.10
methyl parathion	mg/kg	0.1	<0.10	<0.10	<0.10
prophos	mg/kg	0.1	<0.10	<0.10	<0.10

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tributylphosphorotrithioite	mg/kg	0.1	<0.10	<0.10	<0.10
Aroclor 1016	mg/kg	0.5	<0.50	<0.50	<0.50
Aroclor 1221	mg/kg	0.5	<0.50	<0.50	<0.50
Aroclor 1232	mg/kg	0.5	<0.50	<0.50	<0.50
Aroclor 1242	mg/kg	0.5	<0.50	<0.50	<0.50
Aroclor 1248	mg/kg	0.5	<0.50	<0.50	<0.50
Aroclor 1254	mg/kg	0.5	<0.50	<0.50	<0.50
Aroclor 1260	mg/kg	0.5	<0.50	<0.50	<0.50
2-fluorobiphenyl (Surr.)	%		98	99	102
ESA-P-ORG16					
PFBA	ug/kg	5	-	<5	-
PFPeA	ug/kg	5	-	<5	-
PFBS	ug/kg	5	-	<5	-
PFHxA	ug/kg	5	-	<5	-
PFPeS	ug/kg	5	-	<5	-
PFHpA	ug/kg	5	-	<5	-
PFOA	ug/kg	5	-	<5	-
PFHpS	ug/kg	5	-	<5	-
PFOS	ug/kg	5	-	<5	-
PFDA	ug/kg	5	-	<5	-
PFUdA	ug/kg	5	-	<5	-
PFDoA	ug/kg	5	-	<5	-
PFTrDA	ug/kg	5	-	<5	-
PFTeDA	ug/kg	5	-	<5	-
PFNA	ug/kg	5	-	<5	-
PFHxS	ug/kg	5	-	<5	-
MPFBA (Surr.)	%		-	83	-
M3PFBS (Surr.)	%		-	90	-
MPFOS (Surr.)	%		-	108	-
MPFHxA (Surr.)	%		-	99	-
MPFOA (Surr.)	%		-	99	-
MPFUdA (Surr.)	%		-	83	-

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ESA-P-ORG(3,8)					
>C10-C16	mg/kg	50	<50	<50	<50
>C16-C34	mg/kg	100	<100	<100	<100
>C34-C40	mg/kg	100	<100	<100	<100
>C10-C40 (Sum of total)	mg/kg	50	<50	<50	<50
>C10-C14	mg/kg	50	<50	<50	<50
>C15-C28	mg/kg	100	<100	<100	<100
>C29-C36	mg/kg	100	<100	<100	<100
>C10-C36 (Sum of total)	mg/kg	50	<50	<50	<50
ESA-P-ORG07 & ORG08					
Benzene	mg/kg	0.5	<0.50	<0.50	<0.50
Toluene	mg/kg	0.5	<0.50	<0.50	<0.50
Ethylbenzene	mg/kg	0.5	<0.50	<0.50	<0.50
m.p Xylene	mg/kg	1	<1.0	<1.0	<1.0
o Xylene	mg/kg	0.5	<0.50	<0.50	<0.50
Sum of BTEX	mg/kg	1	<1.0	<1.0	<1.0
Total Xylenes	mg/kg	1	<1.0	<1.0	<1.0
Styrene	mg/kg	0.5	-	<0.50	-
Sum of MAHs	mg/kg	1	-	<1.0	-
vNaphthalene	mg/kg	0.5	-	<0.50	-
C6-C9 Conc.	mg/kg	35	<35	<35	<35
C6-C10 Conc.	mg/kg	35	<35	<35	<35
C6-C10 minus BTEX (F1)	mg/kg	35	<35	<35	<35
Vinyl Chloride	mg/kg	0.5	-	<0.50	-
trans-1,2-Dichloroethene	mg/kg	0.5	-	<0.50	-
Methylene chloride	mg/kg	0.5	-	<0.50	-
cis-1,2-Dichloroethene	mg/kg	0.5	-	<0.50	-
Bromochloromethane	mg/kg	0.5	-	<0.50	-
Chloroform	mg/kg	0.5	-	<0.50	-
1,1,1-Trichloroethane	mg/kg	0.5	-	<0.50	-
1,2-Dichloroethane	mg/kg	0.5	-	<0.50	-
Carbon tetrachloride	mg/kg	0.5	-	<0.50	-
1,1,2-Trichloroethane	mg/kg	0.5	-	<0.50	-

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Tetrachloroethene	mg/kg	0.5	-	<0.50	-
1,1,1,2-Tetrachloroethane	mg/kg	0.5	-	<0.50	-
1,1,2,2-Tetrachloroethane	mg/kg	0.5	-	<0.50	-
1,2-Dichlorobenzene	mg/kg	0.5	-	<0.50	-
1,4-Dichlorobenzene	mg/kg	0.5	-	<0.50	-
1,2,4-Trichlorobenzene	mg/kg	0.5	-	<0.50	-
Hexachlorobutadiene	mg/kg	0.5	-	<0.50	-
1,1-Dichloroethene	mg/kg	0.5	-	<0.50	-
Trichloroethene	mg/kg	0.5	-	<0.50	-
Chlorobenzene	mg/kg	0.5	-	<0.50	-
Sum of Chlorinated Hydrocarbons	mg/kg	0.5	-	<0.50	-
Other Chlorinated Hydrocarbon	mg/kg	0.5	-	<0.50	-
Toluene-d8 (Surr.)	%		79	77	77
1,2-Dichloroethane-d4 (Surr.)	%		76	75	76
4-Bromofluorobenzene (BFB) (Surr.)	%		72	72	72
Trifluorotoluene (Surr.)	%		81	77	82

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Accreditation No.14664
Accredited for compliance with ISO/IEC 17025 - Testing.

This Quality Control Report contains results of QAQC samples analysis and the Laboratory Acceptance Criteria.

This report supersedes any previous report(s) with this reference. This document shall not be reproduced, except in full.

This report has been electronically signed by authorised signatories below.

Authorised By

Kaiyu Li

General Comments

Duplicate samples and matrix spike may not be prepared on smaller jobs, however are analysed at frequency. QAQC samples shown within the report as e.g. Batch Blank, Batch Matrix Spike were performed on samples not reported on that Certificate of Analysis.

Blank This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in the same manner as for samples.
Duplicate This is the interlaboratory split of a random sample from the processed batch
Matrix Spike A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample): This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class.
Surr. (Surrogate Spike) Surrogates are known additions to each sample, blank and matrix spike or LCS in a batch. Surrogates are chosen as a compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Blank shall be < PQL
Matrix Spikes and LCS: Generally 70-130% for inorganics/metals/PFAS, 60-140% for organics is acceptable. Matrix heterogeneity may result in matrix spike analyses falling outside these limits
RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:
Results <10 times the PQL : No Limit
Results between 10-20 times the PQL : RPD must lie between 0-50%
Results >20 times the PQL : RPD must lie between 0-30%
Surrogate Recoveries : Recoveries must lie between 50-150%

SLS is responsible for all the information in the report, except that provided by the customer.

All sampling information included in the report has been provided by customer.

Information provided by the customer can affect the validity of the results.

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Quality Control Report

Contact:	Thesan Naidoo	**Date Reported:**	10/05/2022
Customer:	ADE Consulting Group	**No. of Samples:**	24
Address:	Unit 6 7 Millennium Court Silverwater NSW	**Date Received:**	9/05/2022
		Date of Analysis:	9/05/2022

Cust Ref: 21.2041.BWN.WAC1

Glossary:

*NATA accreditation does not cover the performance of this service
ND-not detected,
NT-not tested
INS-Insufficient material to perform the test
LCS-Laboratory Control Sample
RPD-Relative Percent Difference
N/A-Not Applicable
< less than
> greater than
PQL- Practical Quantitation Limit
^Analytical result might be compromised due to sample condition or holding time requirements
Reaction rate 1 = Slight
Reaction rate 2 = Moderate
Reaction rate 3 = High
Reaction rate 4 = Vigorous

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Quality Control Report

	Sample ID:	D202201440501	D202201441402
	Sample Name	SES-BH3-0.3-0.5	TP107-0.0-0.2

Parameter	Units	PQL		
ESA-P-ORG7 & ORG8				
Benzene			Pass	Pass
Toluene			Pass	Pass
Ethylbenzene			Pass	Pass
m.p Xylene			Pass	Pass
o Xylene			Pass	Pass
Styrene			Pass	Pass
vNaphthalene			Pass	Pass
C6-C9			Pass	Pass
C6-C10			Pass	Pass
Vinyl Chloride			Pass	Pass
trans-1,2-Dichloroethene			Pass	Pass
Methylene chloride			Pass	Pass
cis-1,2-Dichloroethene			Pass	Pass
Bromochloromethane			Pass	Pass
Chloroform			Pass	Pass
1,1,1-Trichloroethane			Pass	Pass
1,2-Dichloroethane			Pass	Pass
Carbon tetrachloride			Pass	Pass
1,1,2-Trichloroethane			Pass	Pass
Tetrachloroethene			Pass	Pass
1,1,1,2-Tetrachloroethane			Pass	Pass
1,1,2,2-Tetrachloroethane			Pass	Pass
1,2-Dichlorobenzene			Pass	Pass
1,4-Dichlorobenzene			Pass	Pass
1,2,4-Trichlorobenzene			Pass	Pass
Hexachlorobutadiene			Pass	Pass
1,1-Dichloroethene			Pass	Pass

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Trichloroethene			Pass	Pass
Chlorobenzene			Pass	Pass
Toluene-d8	%		83	74
1,2-Dichloroethane-d4	%		102	77
4-Bromofluorobenzene (BFB)	%		86	71
Trifluorotoluene (Surr.)	%		99	78
		Sample ID:	**D202201440502**	**D202201441401**
		Sample Name	**SES-BH3-0.3-0.5**	**TP107-0.0-0.2**
Parameter	***Units***	***PQL***		
ESA-MP-01,ICP-01				
Arsenic			Pass	Pass
Cadmium			Pass	Pass
Chromium			Pass	Pass
Copper			Pass	Pass
Lead			Pass	Pass
Mercury			Pass	Pass
Nickel			Pass	Pass
Zinc			Pass	Pass
		Sample ID:	**D202201440503**	**D202201441403**
		Sample Name	**SES-BH3-0.3-0.5**	**TP107-0.0-0.2**
Parameter	***Units***	***PQL***		
ESA-P-ORG(12 - 15)				
Acenaphthene			Pass	Pass
Acenaphthylene			Pass	Pass
Anthracene			Pass	Pass
Benzo[a]anthracene			Pass	Pass
Benzo[a]pyrene			Pass	Pass
Benzo[b]fluoranthene			Pass	Pass
Benzo[g,h,i]perylene			Pass	Pass
Benzo[k]fluoranthene			Pass	Pass
Chrysene			Pass	Pass
Dibenzo[a,h]anthracene			Pass	Pass
Fluoranthene			Pass	Pass

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Fluorene			Pass	Pass
Indeno(1,2,3-cd)pyrene			Pass	Pass
Naphthalene			Pass	Pass
Phenanthrene			Pass	Pass
Pyrene			Pass	Pass
p-Terphenyl-d14 (Surr.)	%		68	79
aldrin			Pass	Pass
a-BHC			Pass	Pass
b-BHC			Pass	Pass
d-BHC			Pass	Pass
g-BHC (lindane)			Pass	Pass
cis-chlordane			Pass	Pass
trans-chlordane			Pass	Pass
4,4'-DDD			Pass	Pass
4,4'-DDE			Pass	Pass
4,4'-DDT			Pass	Pass
dieldrin			Pass	Pass
endosulfan I			Pass	Pass
endosulfan II			Pass	Pass
endosulfan sulfate			Pass	Pass
endrin			Pass	Pass
endrin aldehyde			Pass	Pass
endrin ketone			Pass	Pass
heptachlor			Pass	Pass
heptachlor epoxide			Pass	Pass
hexachlorobenzene			Pass	Pass
methoxychlor			Pass	Pass
TCMX (Surr.)	%		104	121
chlorpyrifos			Pass	Pass
chlorpyrifos methyl			Pass	Pass
diazinon			Pass	Pass
fenchlorphos			Pass	Pass
methyl parathion			Pass	Pass

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prophos			Pass	Pass
tributylphosphorotrithioite			Pass	Pass
Aroclor 1016			Pass	Pass
Aroclor 1221			Pass	Pass
Aroclor 1232			Pass	Pass
Aroclor 1242			Pass	Pass
Aroclor 1248			Pass	Pass
Aroclor 1254			Pass	Pass
Aroclor 1260			Pass	Pass
2-fluorobiphenyl (Surr.)	%		88	104

		Sample ID:	**D202201440504**	**D202201441404**
		Sample Name	**SES-BH3-0.3-0.5**	**TP107-0.0-0.2**
Parameter	***Units***	***PQL***		
ESA-P-ORG(3,8)				
>C10-C16			Pass	Pass
>C16-C34			Pass	Pass
>C34-C40			Pass	Pass
>C10-C14			Pass	Pass
>C15-C28			Pass	Pass
>C29-C36			Pass	Pass

		Sample ID:	**D202201440601**
		Sample Name	**SES-BH3-1.0-1.2**
Parameter	***Units***	***PQL***	
ESA-P-ORG16			
PFBA			Pass
PFPeA			Pass
PFBS			Pass
PFHxA			Pass
PFPeS			Pass
PFHpA			Pass
PFOA			Pass
PFHpS			Pass

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PFOS			Pass
PFDA			Pass
PFUdA			Pass
PFDoA			Pass
PFTrDA			Pass
PFTeDA			Pass
PFNA			Pass
PFHxS			Pass
MPFBA	%		95
M3PFBS	%		102
MPFOS	%		88
MPFHxA	%		85
MPFOA	%		115
MPFUdA	%		95

Sample ID: **Q2022003366**

Sample Name

Parameter	***Units***	***PQL***	VOCs MB Vic - Soil
ESA-P-ORG7 & ORG8			
Benzene	mg/kg	0.5	<0.50
Toluene	mg/kg	0.5	<0.50
Ethylbenzene	mg/kg	0.5	<0.50
m.p Xylene	mg/kg	1	<1.0
o Xylene	mg/kg	0.5	<0.50
Styrene	mg/kg	0.5	<0.50
vNaphthalene	mg/kg	0.5	<0.50
C6-C9	mg/kg	35	<35
C6-C10	mg/kg	35	<35
Vinyl Chloride	mg/kg	0.5	<0.50
trans-1,2-Dichloroethene	mg/kg	0.5	<0.50
Methylene chloride	mg/kg	0.5	<0.50
cis-1,2-Dichloroethene	mg/kg	0.5	<0.50
Bromochloromethane	mg/kg	0.5	<0.50
Chloroform	mg/kg	0.5	<0.50

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1,1,1-Trichloroethane	mg/kg	0.5	<0.50
1,2-Dichloroethane	mg/kg	0.5	<0.50
Carbon tetrachloride	mg/kg	0.5	<0.50
1,1,2-Trichloroethane	mg/kg	0.5	<0.50
Tetrachloroethene	mg/kg	0.5	<0.50
1,1,1,2-Tetrachloroethane	mg/kg	0.5	<0.50
1,1,2,2-Tetrachloroethane	mg/kg	0.5	<0.50
1,2-Dichlorobenzene	mg/kg	0.5	<0.50
1,4-Dichlorobenzene	mg/kg	0.5	<0.50
1,2,4-Trichlorobenzene	mg/kg	0.5	<0.50
Hexachlorobutadiene	mg/kg	0.5	<0.50
1,1-Dichloroethene	mg/kg	0.5	<0.50
Trichloroethene	mg/kg	0.5	<0.50
Chlorobenzene	mg/kg	0.5	<0.50

Sample ID: **Q2022003367**

Sample Name

Parameter	***Units***	***PQL***	VOCs LCS Vic - Soil
ESA-P-ORG7 & ORG8			
1,1-Dichloroethene	%		89
Benzene	%		121
Trichloroethene	%		77
Toluene	%		116
Chlorobenzene	%		106
Toluene-d8 (Surr.)	%		81
1,2-Dichloroethane-d4 (Surr.)	%		83
4-Bromofluorobenzene (BFB) (Surr.)	%		75
Trifluorotoluene (Surr.)	%		82

Sample ID: **Q2022003368**

Sample Name

Parameter	***Units***	***PQL***	Metals Blank - Soil
ESA-MP-01,ICP-01			
Arsenic	mg/kg	5	<5.0

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Cadmium	mg/kg	0.3	<0.30
Chromium	mg/kg	5	<5.0
Copper	mg/kg	5	<5.0
Lead	mg/kg	10	<10.0
Mercury	mg/kg	0.2	<0.20
Nickel	mg/kg	10	<10.0
Zinc	mg/kg	5	<5.0

Sample ID: **Q2022003369**

Sample Name

Parameter	***Units***	***PQL***	Metals Blank Sp-Soil
ESA-MP-01,ICP-01			
Arsenic	%		92
Cadmium	%		99
Chromium	%		95
Copper	%		93
Lead	%		96
Mercury	%		102
Nickel	%		97
Zinc	%		98

Sample ID: **Q2022003370**

Sample Name

Parameter	***Units***	***PQL***	PCB Blank - Soil
ESA-P-ORG(12 - 15)			
Acenaphthene	mg/kg	0.3	<0.30
Acenaphthylene	mg/kg	0.3	<0.30
Anthracene	mg/kg	0.3	<0.30
Benzo[a]anthracene	mg/kg	0.3	<0.30
Benzo[a]pyrene	mg/kg	0.3	<0.30
Benzo[b]fluoranthene	mg/kg	0.3	<0.30
Benzo[g,h,i]perylene	mg/kg	0.3	<0.30
Benzo[k]fluoranthene	mg/kg	0.3	<0.30
Chrysene	mg/kg	0.3	<0.30
Dibenzo[a,h]anthracene	mg/kg	0.3	<0.30

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Fluoranthene	mg/kg	0.3	<0.30
Fluorene	mg/kg	0.3	<0.30
Indeno(1,2,3-cd)pyrene	mg/kg	0.3	<0.30
Naphthalene	mg/kg	0.3	<0.30
Phenanthrene	mg/kg	0.3	<0.30
Pyrene	mg/kg	0.3	<0.30
aldrin	mg/kg	0.1	<0.10
a-BHC	mg/kg	0.1	<0.10
b-BHC	mg/kg	0.1	<0.10
d-BHC	mg/kg	0.1	<0.10
g-BHC (lindane)	mg/kg	0.1	<0.10
cis-chlordane	mg/kg	0.1	<0.10
trans-chlordane	mg/kg	0.1	<0.10
4,4'-DDD	mg/kg	0.1	<0.10
4,4'-DDE	mg/kg	0.1	<0.10
4,4'-DDT	mg/kg	0.1	<0.10
dieldrin	mg/kg	0.1	<0.10
endosulfan I	mg/kg	0.2	<0.20
endosulfan II	mg/kg	0.2	<0.20
endosulfan sulfate	mg/kg	0.1	<0.10
endrin	mg/kg	0.2	<0.20
endrin aldehyde	mg/kg	0.1	<0.10
endrin ketone	mg/kg	0.1	<0.10
heptachlor	mg/kg	0.1	<0.10
heptachlor epoxide	mg/kg	0.1	<0.10
hexachlorobenzene	mg/kg	0.1	<0.10
methoxychlor	mg/kg	0.1	<0.10
chlorpyrifos	mg/kg	0.1	<0.10
chlorpyrifos methyl	mg/kg	0.1	<0.10
diazinon	mg/kg	0.1	<0.10
fenchlorphos	mg/kg	0.1	<0.10
methyl parathion	mg/kg	0.1	<0.10
prophos	mg/kg	0.1	<0.10

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tributylphosphorotrithioite	mg/kg	0.1	<0.10
Aroclor 1016	mg/kg	0.5	<0.50
Aroclor 1221	mg/kg	0.5	<0.50
Aroclor 1232	mg/kg	0.5	<0.50
Aroclor 1242	mg/kg	0.5	<0.50
Aroclor 1248	mg/kg	0.5	<0.50
Aroclor 1254	mg/kg	0.5	<0.50
Aroclor 1260	mg/kg	0.5	<0.50

Sample ID: **Q2022003371**

Sample Name

Parameter	***Units***	***PQL***	PCB Blank Sp - Soil
ESA-P-ORG(12 - 15)			
Acenaphthene	%		102
Anthracene	%		96
Fluoranthene	%		69
Naphthalene	%		94
Phenanthrene	%		94
Pyrene	%		75
p-Terphenyl-d14 (Surr.)	%		81
aldrin	%		95
endrin	%		83
hexachlorobenzene	%		96
TCMX (Surr.)	%		119
chlorpyrifos	%		87
diazinon	%		96
2-fluorobiphenyl (Surr.)	%		105
Aroclor 1016	%		92

Sample ID: **Q2022003372**

Sample Name

Parameter	***Units***	***PQL***	TRH Blank-Soil
ESA-P-ORG(3,8)			
>C10-C16	mg/kg	50	<50

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>C16-C34	mg/kg	100	<100
>C34-C40	mg/kg	100	<100
>C10-C14	mg/kg	50	<50
>C15-C28	mg/kg	100	<100
>C29-C36	mg/kg	100	<100

Sample ID: **Q2022003373**

Sample Name

Parameter	***Units***	***PQL***	TRH Blank Spike-Soil
ESA-P-ORG(3,8)			
>C10-C16	%		111
>C10-C14	%		108

Sample ID: **Q2022003374**

Sample Name

Parameter	***Units***	***PQL***	PFAS Blank - Soil
ESA-P-ORG16			
PFBA	ug/kg	5	<5
PFPeA	ug/kg	5	<5
PFBS	ug/kg	5	<5
PFHxA	ug/kg	5	<5
PFPeS	ug/kg	5	<5
PFHpA	ug/kg	5	<5
PFOA	ug/kg	5	<5
PFHpS	ug/kg	5	<5
PFOS	ug/kg	5	<5
PFDA	ug/kg	5	<5
PFUdA	ug/kg	5	<5
PFDoA	ug/kg	5	<5
PFTrDA	ug/kg	5	<5
PFTeDA	ug/kg	5	<5
PFNA	ug/kg	5	<5
PFHxS	ug/kg	5	<5
MPFBA (Surr.)	%		71
M3PFBS (Surr.)	%		76

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MPFOS (Surr.)	%		107
MPFHxA (Surr.)	%		71
MPFOA (Surr.)	%		84
MPFUdA (Surr.)	%		83

Sample ID: **Q2022003375**

Sample Name

Parameter	***Units***	***PQL***	PFAS Blank Sp - Soil
ESA-P-ORG16			
PFBA	%		80
PFPeA	%		82
PFBS	%		125
PFHxA	%		128
PFPeS	%		126
PFHpA	%		116
PFOA	%		115
PFHpS	%		118
PFOS	%		114
PFDA	%		82
PFUdA	%		111
PFDoA	%		98
PFTrDA	%		78
PFTeDA	%		80
PFNA	%		108
PFHxS	%		126
MPFBA (Surr.)	%		77
M3PFBS (Surr.)	%		80
MPFOS (Surr.)	%		125
MPFHxA (Surr.)	%		74
MPFOA (Surr.)	%		82
MPFUdA (Surr.)	%		85

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Sample ID:	**S202201440401**
Sample Name	**SES-BH3-0.0-0.2**

Parameter	*Units*	*PQL*	
ESA-P-ORG-07 & 08			
1,1-Dichloroethene	%		78
Benzene	%		130
Trichloroethene	%		82
Toluene	%		116
Chlorobenzene	%		112
Toluene-d8 (Surr.)	%		80
1,2-Dichloroethane-d4 (Surr.)	%		89
4-Bromofluorobenzene (Surr.)	%		78
Trifluorotoluene (Surr.)	%		86

Sample ID:	**S202201440402**
Sample Name	**SES-BH3-0.0-0.2**

Parameter	*Units*	*PQL*	
ESA-MP-01,ICP-01			
Arsenic	%		103
Cadmium	%		103
Chromium	%		99
Copper	%		90
Lead	%		86
Mercury	%		114
Nickel	%		96
Zinc	%		112

Sample ID:	**S202201440403**
Sample Name	**SES-BH3-0.0-0.2**

Parameter	*Units*	*PQL*	
ESA-P-ORG(12 - 15)			
Acenaphthene	%		107
Anthracene	%		102
Fluoranthene	%		73

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Naphthalene	%		98
Phenanthrene	%		100
Pyrene	%		81
p-Terphenyl-d14 (Surr.)	%		84
aldrin	%		99
endrin	%		88
hexachlorobenzene	%		98
TCMX (Surr.)	%		113
chlorpyrifos	%		99
diazinon	%		102
Aroclor 1016	%		98
2-fluorobiphenyl (Surr.)	%		107

Sample ID:	**S202201440404**
Sample Name	**SES-BH3-0.0-0.2**

Parameter	*Units*	*PQL*	
ESA-P-ORG(3,8)			
>C10-C16	%		110
>C10-C14	%		108

Sample ID:	**S202201440405**
Sample Name	**SES-BH3-0.0-0.2**

Parameter	*Units*	*PQL*	
ESA-P-ORG16			
PFBA	%		80
PFPeA	%		82
PFBS	%		117
PFHxA	%		127
PFPeS	%		117
PFHpA	%		119
PFOA	%		122
PFHpS	%		120
PFOS	%		123
PFDA	%		101
PFUdA	%		109

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PFDoA	%		99
PFTrDA	%		89
PFTeDA	%		80
PFNA	%		121
PFHxS	%		125
MPFBA (Surr.)	%		73
M3PFBS (Surr.)	%		81
MPFOS (Surr.)	%		84
MPFHxA (Surr.)	%		75
MPFOA (Surr.)	%		76
MPFUdA (Surr.)	%		81

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Ph: (02) 9648-6669

A.B.N. 52 093 452 950

Analysis report: 21.2041.WAC1

Laboratory LOT NO: 2202150

Date Received: 09.05.2022
Date Analysed: 10.05.2022
Report Date: 10.05.2022
Client: ADE Consulting Group
Job Location: AFJV BWN Site-Wide WAC
Analytical method: Polarised Light Microscopy with dispersion staining (ADE method ABI)

*Asbestos identification as per "National Environment Protection (Assessment of site contamination) Measure, Schedule B1" and "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" is not coverd by NATA scope of accreditation

AS 4964-2004 "Method for the qualitative identification of asbestos in bulk samples" in conjunction with AD Envirotech's ABI Methods for Polarised Light Microscopy with dispersion staining

Analysis performed by:

Grace (Weichen) Jia
Approved asbestos identifier

Results Authorised By:

Kim Foley
Approved Signatory

Accreditation No.14664.
Accredited for compliance with ISO/IEC 17025 - Testing.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Tests not covered by NATA are denoted with *.

General Comments:

Sydney Laboratory Services is responsible for all the information in the report, except that provided by the customer. All sampling information included in the report has been provided by the client

Information provided by the client can affect the validity of the results.

Sample analysed as received.

Samples are stored for minimum period of 1 month if longer time is not advised by client.

Asbestos ID - Identification of asbestos in soil samples using Polarised Light Microscopy and Dispersion Staining Techniques. Minimum 500mL soil sample was analysed as recommended by "National Environment Protection (Assessment of site contamination) Measure, Schedule B1 and "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.01g/kg (0.001% w/w) for friable asbestos and 0.1g/kg (0.01% w/w) for bonded asbestos.

This form of analysis is outside the scope of NATA accreditation.

Bonded asbestos containing material (bonded ACM) : Bonded ACM comprises asbestos-containing-material which is in sound condition, although possibly broken or fragmented, and where the asbestos is bound in a matrix such as cement or resin.This term is restricted to material that cannot pass a 7 mm x 7 mm sieve.

Fibrous asbestos (FA): FA comprises friable asbestos material and includes severely weathered cement sheet, insulation products and woven asbestos material. This type of friable asbestos is defined here as asbestos material that is in a degraded condition such that it can be broken or crumbled by hand pressure. This material is typically unbonded or was previously bonded and is now significantly degraded (crumbling).

Asbestos fines (AF): AF includes free fibres, small fibre bundles and also small fragments of bonded ACM that pass through a 7 mm x 7 mm sieve.

Note: The screening level of 0.001% w/w asbestos in soil for FA and AF (i.e. non-bonded/friable asbestos) only applies where the FA and AF are able to be quantified by gravimetric procedures. This screening level is not applicable to free fibres.

Accreditation No.14664.

Accredited for compliance with ISO/IEC 17025 - Testing.

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Tests not covered by NATA are denoted with *.

Client Sample ID.	Laboratory Sample No.	Sample Description/Matrix	Sample Dimensions (cm) unless stated otherwise	Result	Comments
SES-BH3-0.0-0.2	2022014404	Soil	44 grams	No Chrysotile asbestos found at reporting	Nil
				No Amosite asbestos found at reporting	Nil
				No Crocidolite asbestos found at reporting	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
SES-BH3-0.3-0.5	2022014405	Soil	46 grams	No Chrysotile asbestos found at reporting	Nil
				No Amosite asbestos found at reporting	Nil
				No Crocidolite asbestos found at reporting	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
SES-BH3-1.0-1.2	2022014406	Soil	43 grams	No Chrysotile asbestos found at reporting	Nil
				No Amosite asbestos found at reporting	Nil
				No Crocidolite asbestos found at reporting	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
SES-BH4-0.0-0.2	2022014407	Soil	46 grams	No Chrysotile asbestos found at reporting	Nil
				No Amosite asbestos found at reporting	Nil
				No Crocidolite asbestos found at reporting	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
SES-BH4-0.3-0.5	2022014409	Soil	38 grams	No Chrysotile asbestos found at reporting	Nil
				No Amosite asbestos found at reporting	Nil
				No Crocidolite asbestos found at reporting	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
SES-BH4-1.0-1.2	2022014410	Soil	37 grams	No Chrysotile asbestos found at reporting	Nil
				No Amosite asbestos found at reporting	Nil
				No Crocidolite asbestos found at reporting	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil

Client Sample ID.	Laboratory Sample No.	Sample Description/Matrix	Sample Dimensions (cm) unless stated otherwise	Result	Comments
SES-BH4-1.2-1.3	2022014411	Soil	26 grams	No Chrysotile asbestos found at reporting	Nil
				No Amosite asbestos found at reporting	Nil
				No Crocidolite asbestos found at reporting	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
SES SEA3-0.0-0.3	2022014412	Soil	64 grams	No Chrysotile asbestos found at reporting	Nil
				No Amosite asbestos found at reporting	Nil
				No Crocidolite asbestos found at reporting	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
SES SEA3-0.3-0.5	2022014413	Soil	45 grams	No Chrysotile asbestos found at reporting	Nil
				No Amosite asbestos found at reporting	Nil
				No Crocidolite asbestos found at reporting	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
ADE_TP107_0.0-0.2	2022014414	Soil	72 grams	No Chrysotile asbestos found at reporting	Nil
				No Amosite asbestos found at reporting	Nil
				No Crocidolite asbestos found at reporting	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
ADE_TP107_0.3-0.5	2022014415	Soil	60 grams	No Chrysotile asbestos found at reporting	Nil
				No Amosite asbestos found at reporting	Nil
				No Crocidolite asbestos found at reporting	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
ADE_TP107_1.0-1.2	2022014416	Soil	67 grams	No Chrysotile asbestos found at reporting	Nil
				No Amosite asbestos found at reporting	Nil
				No Crocidolite asbestos found at reporting	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil

Client Sample ID.	Laboratory Sample No.	Sample Description/Matrix	Sample Dimensions (cm) unless stated otherwise	Result	Comments
ADE_TP107_1.3-1.5	2022014417	Soil	72 grams	No Chrysotile asbestos found at reporting	Nil
				No Amosite asbestos found at reporting	Nil
				No Crocidolite asbestos found at reporting	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
BH123-DEL1W_0.0-0.2	2022014419	*Soil	500 ml	No Chrysotile asbestos found	Nil
				No Amosite asbestos found	Nil
				No Crocidolite asbestos found	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
BH123-DEL1W_0.3-0.5	2022014420	*Soil	500 ml	No Chrysotile asbestos found	Nil
				No Amosite asbestos found	Nil
				No Crocidolite asbestos found	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
BH123-DEL1N_0.0-0.2	2022014421	*Soil	500 ml	No Chrysotile asbestos found	Nil
				No Amosite asbestos found	Nil
				No Crocidolite asbestos found	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
BH123-DEL1N_0.3-0.5	2022014422	*Soil	500 ml	No Chrysotile asbestos found	Nil
				No Amosite asbestos found	Nil
				No Crocidolite asbestos found	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
BH123-DEL1S_0.0-0.2	2022014423	*Soil	500 ml	No Chrysotile asbestos found	Nil
				No Amosite asbestos found	Nil
				No Crocidolite asbestos found	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil

Client Sample ID.	Laboratory Sample No.	Sample Description/Matrix	Sample Dimensions (cm) unless stated otherwise	Result	Comments
BH123-DEL1S_0.3-0.5	2022014424	*Soil	500 ml	No Chrysotile asbestos found	Nil
				No Amosite asbestos found	Nil
				No Crocidolite asbestos found	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
BH123-DEL1E_0.0-0.2	2022014425	*Soil	500 ml	No Chrysotile asbestos found	Nil
				No Amosite asbestos found	Nil
				No Crocidolite asbestos found	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
BH123-DEL1E_0.3-0.5	2022014426	*Soil	500 ml	No Chrysotile asbestos found	Nil
				No Amosite asbestos found	Nil
				No Crocidolite asbestos found	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
ERM_DEL4_0.0-0.2	2022014427	*Soil	500 ml	No Chrysotile asbestos found	Nil
				No Amosite asbestos found	Nil
				No Crocidolite asbestos found	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
ERM_DEL4_0.3-0.5	2022014428	*Soil	500 ml	No Chrysotile asbestos found	Nil
				No Amosite asbestos found	Nil
				No Crocidolite asbestos found	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil

T80

Document Revision Date: 30.06.2020

ESA-F-02 COC - Chain Of Custody (SLS)

ADE CONSULTING GROUP
SOLUTIONS THROUGH INNOVATION

PROJECT:	AFJV BWN Site-Wide WAC
PROJECT NUMBER	**21.2041_BWN-WAC1 (Site-Wide WAC)**
SAMPLES DELIVERED BY:	ADE Consulting Group 6/7 Millennium Ct, Silverwater NSW 2128
SAMPLERS:	Elisha Cassidy, Richard Wang
TURNAROUND:	24h: xx 48h: 72h: ☐ 5 WORKING DAYS:
SAMPLING DATE:	06.05.2022
AFTER TEST STORAGE:	ROOM TEMP: ☐ FRIDGE: X FREEZER: ☐ > >4 WEEKS: ☐ OTHER: ☐
REPORT FORMAT:	HARD COPY: ☐ E-MAIL: X
CONSULTANTS SIGNATURE:	CONSULTANT E-MAIL: elisha.cassidy@ade.group; richard.wang@ade.group
PROJECT MANAGERS SIGNATURE:	PROJECT MANAGERS E-MAIL: thesan.naidoo@ade.group

LABORATORY REFERENCE NO. (Lab use ONLY):	21.2041.WAC1		
RECEIVED BY: Trianah	SIGNATURE: Tree		
SAMPLES: 2 CHILLED: ☐	PRESERVED: X	PRESERVATION METHOD: X	CUSTODY SEAL INTACT: X
MINIMAL HEADSPACE : ☐	WITHIN HOLDING TIME: ☐		
DATE: 9/5/22	TIME: 2:00pm	TEMPERATURE UPON RECEIPT: X	
LIMS LOT NO. 220253	LIMS/EXCEL SIGNATURE:	COMMENTS:	

2022014 ...

SAMPLE DATA				CONTAINER DATA		ANALYSES REQUIRED																					NOTES
						Chem Lab													Asbestos							Mould	
LIMS Sample ID (Lab Use)	Sample ID (ADE)	MATRIX	SAMPLE DATE	TYPE & PRESERVATIVE	NO.	6 Metal Suite	8 Metal Suite	BTEX	PAH	OCP/OPP	PCB	vTRH (C6-C10)	TRH (C10-C40)	pH/EC	pH/pH fox	Standard suite	Bulk	Dust	Dust Swab	Soil 65g	Soil 500g NEPM	Airborne Asbesos Monitoring	Mould	POTENTIAL HAZARDOUS CONTAMINANTS: ☑ ASBESTOS ☐ HYDROCARBONS ☐ LEAD/ARSENIC ☐ NO KNOWN CONTAMINATION ☐ OTHER:_____
434	TB	W	06.05.2022	WATER	1			X																LAB PLEASE *EMAIL COC RECEIPT: ☐
435	TS	W	06.05.2022	WATER	2			X																Sample Comments

Comments:

Due: 10.05.22

Container Type and Preservative: P = Unpreserved Plastic; PN = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; PNA = Sodium Hydroxide Preserved Plastic; PC = HCl preserved Plastic; VC = Vial HCl Preserved; SP = Sulfuric Preserved Plastic; VB = Vial Sodium Bisulphate Preserved; VS = Vial Sulfuric Preserved; V = Unpreserved Vial; G = Amber Glass Unpreserved; SG = Sulfuric Preserved Amber Glass; F = Formaldehyde Preserved Glass; HS = HCl preserved Speciation bottle; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottle; ST = Sterile Bottle; J = Unpreserved Glass Jar; ASS = Plastic Bag for Acid Sulfate Soils; B = Unpreserved Bag.

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A.C.N. 093 452 950
Unit 4/10-11 Millennium Court,
Silverwater 2128
Ph: (02) 9648-6669

Accreditation No.14664
Accredited for compliance with ISO/IEC 17025 - Testing.

SAMPLE RECEIPT NOTIFICATION (SRN)

Contact: Thesan Naidoo / Elisha Cassidy / Richard Wang
Project name: 21.2041.WAC1
Number of samples: 2
COC number: 21.2041.WAC1
Turn around time: 24hr
Date: 09/05/2022
Time received: 2:00pm
SLS Reference: 2202153
Estimated Report Delivery Date: 10/05/2022

Sample information

☑	All samples have been received and logged into LIMS.
☑	No mistakes in the COC
☑	Evidence of chilling for samples
N/A	Samples were preserved
N/A	Custody seal intact
☑	Samples were delivered within holding time
☑	Samples to be tested for volatiles had zero headspace
☑	All samples were received in good condition (no broken jars, labelled correctly…).
☐	Samples have been subcontracted

Comments

This report contains:
Sample receipt non-conformities
Summary of samples and requested analysis
Requested report deliverables

Asbestos Samples are reported as per the State EPA guidelines

Contact details

If you have any questions with respect to these samples please contact:
sls@ade.group

Trianah Tumbridge

Sydney Laboratory Services

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Silverwater 2128
Ph: (02) 9648-6669

Accreditation No.14664
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17025 - Testing.

SAMPLE RECEIPT NOTIFICATION (SRN)

Laboratory Sample ID	Client Sample ID	8 Metal Suite	BTEX	PAH	OCP/OPP	PCB	vTRH (C6 - C10)	TRH (C10 - C40)	pH/EC	pH/pH fix	VOC's	PFAS	Bulk	Dust	Dust Swab	Soil 65 grams	SOIl 500 g NEPM	AAM
2022014434	TB		X															
2022014435	TS		X															

CHAIN OF CUSTODY

ALS Laboratory: please tick →

CLIENT: ERM	TURNAROUND REQUIREMENTS : ☐ Standard TAT (List due date):	FOR LABORATORY USE ONLY (Circle)	
OFFICE: Sydney	(Standard TAT may be longer for some tests e.g. Ultra Trace Organics) ☐ Non Standard or urgent TAT (List due date):	Custody Seal Intact?	Yes No N/A
PROJECT: 0577577 - Burwood	ALS QUOTE NO.:	Free ice / Frozen ice bricks present upon receipt?	Yes No N/A
ORDER NUMBER:	COC SEQUENCE NUMBER (Circle) COC: 1 2 3 4 5 6 7 OF: 1 2 3 4 5 6 7	Random Sample Temperature on Receipt:	°C
PROJECT MANAGER: Jessica Lawrence	CONTACT PH: 0404935554	Other comments:	25
SAMPLER: Tristan Rodrigues / Madushani Balonghe	SAMPLER MOBILE: 0417187687 / 0449091150	RELINQUISHED BY: Madushani Balonghe	RECEIVED BY:
COC emailed to ALS? YES	EDD FORMAT (or default):	DATE/TIME: 17/12/2021	DATE/TIME: 17/12/21 1850
Email Reports to (will default to PM if no other addresses are listed): jessica.lawrence@erm.com, tristan.rodrigues@erm.com		RELINQUISHED BY:	DATE/TIME:
Email Invoice to (will default to PM if no other addresses are listed): jessica.lawrence@erm.com		DATE/TIME:	RECEIVED BY: Evrokas! DATE/TIME: 20/12 4:46pm #882763

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE	SAMPLE DETAILS MATRIX: SOLID (S) WATER (W)			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required).								Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL CONTAINERS	PFAS (28 analytes) LOR = 5ug/kg	S15	Asbestos ID	VOC	BTEXN			Hold	Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc.
1	BUR_BH105_0.1	15/12/2021	S			x	x	x	x					
2	BUR_BH105_1.0	15/12/2021	S										x	
3	BUR_BH105_2.0	15/12/2021	S										x	
4	BUR_BH105_3.0	15/12/2021	S				x							
5	20211215_R01	15/12/2021	W			x	x		x					
6	Trip Blank	15/12/2021	S							x				
7	Trip Spike	15/12/2021	S							x				

Environmental Division Sydney

Work Order Reference

ES2146476

Telephone : +61-2-8784 8555

DRAFT

CHAIN OF CUSTODY

ALS Laboratory: please tick →

CLIENT: ERM	TURNAROUND REQUIREMENTS: ☐ Standard TAT (List due date)	FOR LABORATORY USE ONLY (Circle)	
OFFICE: Sydney	(Standard TAT may be longer for some tests e.g. Ultra Trace Organics) ☐ Non Standard or urgent TAT (List due date):	Custody Seal Intact?	Yes / No / N/A
PROJECT: 0577577 - Burwood	ALS QUOTE NO.:	Cooling Agent Present upon receipt?	Yes / No / N/A
ORDER NUMBER:	COC SEQUENCE NUMBER (Circle) COC: 1 2 3 4 5 6 7	Random Sample Temperature on Receipt: 26 °C	
PROJECT MANAGER: Jessica Lawrence	CONTACT PH: 0404935554	OF: 1 2 3 4 5 6 7	Other comments:
SAMPLER: Tristan Rodrigues / Madushani Bolonghe	SAMPLER MOBILE: 0417187687 / 0449091150	RELINQUISHED BY: Madushani Bolonghe	RECEIVED BY: SONIA
COC emailed to ALS? YES	EDD FORMAT (or default):	DATE/TIME: 17/12/2021	DATE/TIME: 17/12 1525
Email Reports to (will default to PM if no other addresses are listed): jessica.lawrence@erm.com, tristan.rodrigues@erm.com		RELINQUISHED BY:	RECEIVED BY: Eurofins Newcastle
Email Invoice to (will default to PM if no other addresses are listed): jessica.lawrence@erm.com		DATE/TIME:	DATE/TIME: 20/12 4:46pm #882763

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE	SAMPLE DETAILS MATRIX: SOLID (S) WATER (W)			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required).								Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL CONTAINERS	PFAS (28 analytes) LOR = 5ug/kg	S16	Asbestos ID	VOC	BTEXN			Bold	Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc.
2	BUR_BH102_0.2 received as 0.15	16/12/2021	S			x	x	x	x					
9	BUR_BH102_1.0	16/12/2021	S										x	
10	BUR_BH102_2.0	16/12/2021	S				x							
11	BUR_BH102_3.0	16/12/2021	S										x	
12	BUR_BH103_0.1	16/12/2021	S			x	x	x	x					
13	BUR_BH103_0.7	16/12/2021	S				x		x					
14	BUR_BH103_1.0	16/12/2021	S										x	
15	BUR_BH103_2.0	16/12/2021	S										x	
16	BUR_BH103_3.0	16/12/2021	S										x	
17	BUR_BH103_4.0	16/12/2021	S										x	
18	BUR_BH103_5.0	16/12/2021	S			x	x		x					

DRAFT

CHAIN OF CUSTODY

ALS Laboratory: please tick →

CLIENT: ERM	TURNAROUND REQUIREMENTS : ☐ Standard TAT (List due date):	FOR LABORATORY USE ONLY (Circle)
OFFICE: Sydney	(Standard TAT may be longer for some tests e.g., Ultra Trace Organics) ☐ Non Standard or urgent TAT (List due date):	Custody Seal Intact? Yes No N/A
PROJECT: 0577577 - Burwood	ALS QUOTE NO.:	Free ice / frozen ice blocks present upon receipt? Yes No N/A
ORDER NUMBER:	COC SEQUENCE NUMBER (Circle) COC: 1 2 3 4 5 6 7	Random Sample Temperature on Receipt: 2.6 °C
PROJECT MANAGER: Jessica Lawrence	CONTACT PH: 0404935554 OF: 1 2 3 4 5 6 7	Other comment:
SAMPLER: Tristan Rodrigues / Madushani Bolonghe	SAMPLER MOBILE: 0417187687 / 0449091156	
COC emailed to ALS? YES	EDD FORMAT (or default):	
Email Reports to (will default to PM if no other addresses are listed): jessica.lawrence@erm.com, tristan.rodrigues@erm.com		
Email Invoice to (will default to PM if no other addresses are listed): jessica.lawrence@erm.com		

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Madushani Bolonghe			
DATE/TIME: 17/12/2021	DATE/TIME: 17/12/2021	DATE/TIME:	DATE/TIME: 20/12 4:46pm

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

#852763

ALS USE	SAMPLE DETAILS MATRIX: SOLID (S) WATER (W)			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required).								Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL CONTAINERS	PFAS (28 analytes) LOR = 5ug/kg	S16	Asbestos ID	VOC	BTEXN			Hold	Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc.
19	BUR_BH104_0.2	16/12/2021	S			x	x	x	x					
20	BUR_BH104_1.0	16/12/2021	S				x		x					
21	BUR_BH104_2.0	16/12/2021	S										x	
22	BUR_BH104_3.0	16/12/2021	S										x	
23	BUR_BH104_4.0	16/12/2021	S			x	x							
24	BUR_BH104_5.0	16/12/2021	S										x	
25	BUR_BH110_0.25	16/12/2021	S			x	x	x	x					
26	BUR_BH110_1.0	16/12/2021	S										x	

DRAFT

CHAIN OF CUSTODY

ALS Laboratory: please tick →

CLIENT: ERM	TURNAROUND REQUIREMENTS: ☐ Standard TAT (List due date):	FOR LABORATORY USE ONLY (Circle)	
OFFICE: Sydney	(Standard TAT may be longer for some tests e.g. Ultra Trace Organics) ☐ Non Standard or urgent TAT (List due date):	Custody Seal Intact?	Yes / No / N/A
PROJECT: 0577577 - Burwood	ALS QUOTE NO.:	Free ice / cooler ice bricks present upon receipt?	Yes / No / N/A
ORDER NUMBER:	COC SEQUENCE NUMBER (Circle) COC: 1 2 3 4 5 6 7 OF: 1 2 3 4 5 6 7	Random Sample Temperature on Receipt:	°C
PROJECT MANAGER: Jessica Lawrence CONTACT PH: 0404936554		Other comment:	

SAMPLER: Tristan Rodrigues / Madushani Bolonghe	SAMPLER MOBILE: 0417187687 / 0449091150	RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY: Eurofins:
COC emailed to ALS? YES	EDD FORMAT (or default):	Madushani Bolonghe			
Email Reports to (will default to PM if no other addresses are listed): jessica.lawrence@erm.com, tristan.rodrigues@erm.com		DATE/TIME:	DATE/TIME:	DATE/TIME:	DATE/TIME:
Email Invoice to (will default to PM if no other addresses are listed): jessica.lawrence@erm.com		17/12/2021			20/12 4:46pm

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

#852763

ALS USE	SAMPLE DETAILS MATRIX: SOLID (S) WATER (W)			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required).								Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL CONTAINERS	PFAS (28 analytes) LOR = 5ug/kg	S15	Asbestos ID	VOC	BTEXN			Hold	Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc.
27	BUR_BH115_1.5	15/12/2021	S				x		x					
28	BUR_BH118_2.0	16/12/2021	S										x	
29	BUR_BH119_0.25	16/12/2021	S			x	x	x	x					
30	BUR_BH119_1.0	16/12/2021	S				x		x					
31	D01_20211216	16/12/2021	S			x	x		x					
32	T01_20211216	16/12/2021	S			x	x		x					Please forward to Eurofins
33	20211216_R02	16/12/2021	W			x	x		x					
34	Trip Blank	16/12/2021	S							x				
35	Trip Spike	16/12/2021	S							x				

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; HC = Hydrochloric Preserved; SH = Sodium Hydroxide/Cd Preserved; S = Sodium Hydroxide Preserved Plastic; AG = Amber Glass Unpreserved; AP = Airfreight Unpreserved Plastic; V = VOA Vial HCl Preserved; VB = VOA Vial Sodium Bisulphate Preserved; VS = VOA Vial Sulfuric Preserved; AV = Airfreight Unpreserved Vial; SG = Sulfuric Preserved Amber Glass; H = Hydrochloric Preserved Plastic; ST = Sterile Bottle; F = Formic Preserved Bottle; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottle; ST = Sterile Bottle; ASS = Plastic Bag for Acid Sulphate Soils; B = Unpreserved Bag.

36 TSC 15/12

#38 PFAS IDW Extra NO ID

DRAFT

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www.eurofins.com.au EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

Sample Receipt Advice

Company name:	ERM Sydney
Contact name:	Jessica Lawrence
Project name:	BURWOOD
Project ID:	0577577
Turnaround time:	5 Day
Date/Time received	Dec 20, 2021 4:46 PM
Eurofins reference	852763

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
×	Split sample sent to requested external lab.
×	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

John Nguyen on phone : or by email: JohnNguyen@eurofins.com

Results will be delivered electronically via email to Jessica Lawrence - jessica.lawrence@erm.com.

Note: A copy of these results will also be delivered to the general ERM Sydney email address.

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
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1/21 Smallwood Place
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Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

Company Name: ERM Sydney
Address: Level 15, 309 Kent St
Sydney
NSW 2000

Project Name: BURWOOD
Project ID: 0577577

Order No.:
Report #: 852763
Phone: 02 8584 8888
Fax: 02 8584 8800

Received: Dec 20, 2021 4:46 PM
Due: Dec 29, 2021
Priority: 5 Day
Contact Name: Jessica Lawrence

Eurofins Analytical Services Manager : John Nguyen

Sample Detail						Eurofins Suite B15	Volatile Organics	Moisture Set	Eurofins Suite B7	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254										
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794										X
Mayfield Laboratory - NATA # 1261 Site # 25079										
Perth Laboratory - NATA # 2377 Site # 2370										
External Laboratory										
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**					
1	T01_20211216	Dec 16, 2021		Soil	S21-De54917	X	X	X	X	X
Test Counts						1	1	1	1	1

DRAFT

ERM Sydney
Level 15, 309 Kent St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: **Jessica Lawrence**

Report ***852763-S***
Project name BURWOOD
Project ID 0577577
Received Date Dec 20, 2021

Client Sample ID			[G01]T01_20211216
Sample Matrix			**Soil**
Eurofins Sample No.			**S21-De54917**
Date Sampled			**Dec 16, 2021**
Test/Reference	LOR	Unit	
Total Recoverable Hydrocarbons			
TRH C6-C9	20	mg/kg	< 20
TRH C10-C14	20	mg/kg	< 200
TRH C15-C28	50	mg/kg	750
TRH C29-C36	50	mg/kg	660
TRH C10-C36 (Total)	50	mg/kg	1410
Naphthalene[N02]	0.5	mg/kg	< 0.5
TRH C6-C10	20	mg/kg	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20
TRH >C10-C16	50	mg/kg	< 500
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 500
TRH >C16-C34	100	mg/kg	1200
TRH >C34-C40	100	mg/kg	< 1000
TRH >C10-C40 (total)*	100	mg/kg	1200
BTEX			
Benzene	0.1	mg/kg	< 0.1
Toluene	0.1	mg/kg	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2
o-Xylene	0.1	mg/kg	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3
4-Bromofluorobenzene (surr.)	1	%	106
Volatile Organics			
1.1-Dichloroethane	0.5	mg/kg	< 0.5
1.1-Dichloroethene	0.5	mg/kg	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5
1.2-Dibromoethane	0.5	mg/kg	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5
1.2-Dichloroethane	0.5	mg/kg	< 0.5
1.2-Dichloropropane	0.5	mg/kg	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5

DRAFT

Client Sample ID			G01T01_20211216
Sample Matrix			Soil
Eurofins Sample No.			S21-De54917
Date Sampled			Dec 16, 2021
Test/Reference	LOR	Unit	
Volatile Organics			
1.3-Dichloropropane	0.5	mg/kg	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5
2-Butanone (MEK)	0.5	mg/kg	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	< 0.5
4-Chlorotoluene	0.5	mg/kg	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5
Allyl chloride	0.5	mg/kg	< 0.5
Benzene	0.1	mg/kg	< 0.1
Bromobenzene	0.5	mg/kg	< 0.5
Bromochloromethane	0.5	mg/kg	< 0.5
Bromodichloromethane	0.5	mg/kg	< 0.5
Bromoform	0.5	mg/kg	< 0.5
Bromomethane	0.5	mg/kg	< 0.5
Carbon disulfide	0.5	mg/kg	< 0.5
Carbon Tetrachloride	0.5	mg/kg	< 0.5
Chlorobenzene	0.5	mg/kg	< 0.5
Chloroethane	0.5	mg/kg	< 0.5
Chloroform	0.5	mg/kg	< 0.5
Chloromethane	0.5	mg/kg	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5
Dibromochloromethane	0.5	mg/kg	< 0.5
Dibromomethane	0.5	mg/kg	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	< 0.5
Ethylbenzene	0.1	mg/kg	< 0.1
Iodomethane	0.5	mg/kg	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5
m&p-Xylenes	0.2	mg/kg	< 0.2
Methylene Chloride	0.5	mg/kg	< 0.5
o-Xylene	0.1	mg/kg	< 0.1
Styrene	0.5	mg/kg	< 0.5
Tetrachloroethene	0.5	mg/kg	< 0.5
Toluene	0.1	mg/kg	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5
Trichloroethene	0.5	mg/kg	< 0.5
Trichlorofluoromethane	0.5	mg/kg	< 0.5
Vinyl chloride	0.5	mg/kg	< 0.5
Xylenes - Total*	0.3	mg/kg	< 0.3
Total MAH*	0.5	mg/kg	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5
4-Bromofluorobenzene (surr.)	1	%	106
Toluene-d8 (surr.)	1	%	110

DRAFT

Client Sample ID			G01T01_20211216
Sample Matrix			Soil
Eurofins Sample No.			S21-De54917
Date Sampled			Dec 16, 2021
Test/Reference	LOR	Unit	
Polycyclic Aromatic Hydrocarbons			
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	12
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	12
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	12
Acenaphthene	0.5	mg/kg	< 0.5
Acenaphthylene	0.5	mg/kg	1.6
Anthracene	0.5	mg/kg	2.5
Benz(a)anthracene	0.5	mg/kg	8.4
Benzo(a)pyrene	0.5	mg/kg	8.2
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	5.3
Benzo(g.h.i)perylene	0.5	mg/kg	3.5
Benzo(k)fluoranthene	0.5	mg/kg	8.7
Chrysene	0.5	mg/kg	9.6
Dibenz(a.h)anthracene	0.5	mg/kg	0.9
Fluoranthene	0.5	mg/kg	16
Fluorene	0.5	mg/kg	0.7
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	3.2
Naphthalene	0.5	mg/kg	0.6
Phenanthrene	0.5	mg/kg	10
Pyrene	0.5	mg/kg	18
Total PAH*	0.5	mg/kg	97.2
2-Fluorobiphenyl (surr.)	1	%	111
p-Terphenyl-d14 (surr.)	1	%	98
Organochlorine Pesticides			
Chlordanes - Total	0.1	mg/kg	< 1
4.4'-DDD	0.05	mg/kg	< 0.5
4.4'-DDE	0.05	mg/kg	< 0.5
4.4'-DDT	0.05	mg/kg	< 0.5
a-HCH	0.05	mg/kg	< 0.5
Aldrin	0.05	mg/kg	< 0.5
b-HCH	0.05	mg/kg	< 0.5
d-HCH	0.05	mg/kg	< 0.5
Dieldrin	0.05	mg/kg	< 0.5
Endosulfan I	0.05	mg/kg	< 0.5
Endosulfan II	0.05	mg/kg	< 0.5
Endosulfan sulphate	0.05	mg/kg	< 0.5
Endrin	0.05	mg/kg	< 0.5
Endrin aldehyde	0.05	mg/kg	< 0.5
Endrin ketone	0.05	mg/kg	< 0.5
g-HCH (Lindane)	0.05	mg/kg	< 0.5
Heptachlor	0.05	mg/kg	< 0.5
Heptachlor epoxide	0.05	mg/kg	< 0.5
Hexachlorobenzene	0.05	mg/kg	< 0.5
Methoxychlor	0.05	mg/kg	< 0.5
Toxaphene	0.5	mg/kg	< 10
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.5
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.5
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 1
Dibutylchlorendate (surr.)	1	%	INT
Tetrachloro-m-xylene (surr.)	1	%	105

DRAFT

Client Sample ID			G01T01_20211216
Sample Matrix			**Soil**
Eurofins Sample No.			**S21-De54917**
Date Sampled			**Dec 16, 2021**
Test/Reference	LOR	Unit	
Organophosphorus Pesticides			
Azinphos-methyl	0.2	mg/kg	< 0.5
Bolstar	0.2	mg/kg	< 0.5
Chlorfenvinphos	0.2	mg/kg	< 0.5
Chlorpyrifos	0.2	mg/kg	< 0.5
Chlorpyrifos-methyl	0.2	mg/kg	< 0.5
Coumaphos	2	mg/kg	< 5
Demeton-S	0.2	mg/kg	< 0.5
Demeton-O	0.2	mg/kg	< 0.5
Diazinon	0.2	mg/kg	< 0.5
Dichlorvos	0.2	mg/kg	< 0.5
Dimethoate	0.2	mg/kg	< 0.5
Disulfoton	0.2	mg/kg	< 0.5
EPN	0.2	mg/kg	< 0.5
Ethion	0.2	mg/kg	< 0.5
Ethoprop	0.2	mg/kg	< 0.5
Ethyl parathion	0.2	mg/kg	< 0.5
Fenitrothion	0.2	mg/kg	< 0.5
Fensulfothion	0.2	mg/kg	< 0.5
Fenthion	0.2	mg/kg	< 0.5
Malathion	0.2	mg/kg	< 0.5
Merphos	0.2	mg/kg	< 0.5
Methyl parathion	0.2	mg/kg	< 0.5
Mevinphos	0.2	mg/kg	< 0.5
Monocrotophos	2	mg/kg	< 5
Naled	0.2	mg/kg	< 0.5
Omethoate	2	mg/kg	< 5
Phorate	0.2	mg/kg	< 0.5
Pirimiphos-methyl	0.2	mg/kg	< 0.5
Pyrazophos	0.2	mg/kg	< 0.5
Ronnel	0.2	mg/kg	< 0.5
Terbufos	0.2	mg/kg	< 0.5
Tetrachlorvinphos	0.2	mg/kg	< 0.5
Tokuthion	0.2	mg/kg	< 0.5
Trichloronate	0.2	mg/kg	< 0.5
Triphenylphosphate (surr.)	1	%	85
Polychlorinated Biphenyls			
Aroclor-1016	0.1	mg/kg	< 1
Aroclor-1221	0.1	mg/kg	< 1
Aroclor-1232	0.1	mg/kg	< 1
Aroclor-1242	0.1	mg/kg	< 1
Aroclor-1248	0.1	mg/kg	< 1
Aroclor-1254	0.1	mg/kg	< 1
Aroclor-1260	0.1	mg/kg	< 1
Total PCB*	0.1	mg/kg	< 1
Dibutylchlorendate (surr.)	1	%	INT
Tetrachloro-m-xylene (surr.)	1	%	105

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Client Sample ID			G01T01_20211216
Sample Matrix			Soil
Eurofins Sample No.			S21-De54917
Date Sampled			Dec 16, 2021
Test/Reference	LOR	Unit	
Heavy Metals			
Arsenic	2	mg/kg	9.8
Cadmium	0.4	mg/kg	0.6
Chromium	5	mg/kg	22
Copper	5	mg/kg	96
Lead	5	mg/kg	350
Mercury	0.1	mg/kg	0.3
Nickel	5	mg/kg	12
Zinc	5	mg/kg	280
% Moisture	1	%	15
Perfluoroalkyl carboxylic acids (PFCAs)			
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5
13C4-PFBA (surr.)	1	%	83
13C5-PFPeA (surr.)	1	%	87
13C5-PFHxA (surr.)	1	%	89
13C4-PFHpA (surr.)	1	%	123
13C8-PFOA (surr.)	1	%	107
13C5-PFNA (surr.)	1	%	132
13C6-PFDA (surr.)	1	%	161
13C2-PFUnDA (surr.)	1	%	120
13C2-PFDoDA (surr.)	1	%	78
13C2-PFTeDA (surr.)	1	%	53
Perfluoroalkyl sulfonamido substances			
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)[N11]	5	ug/kg	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)[N11]	5	ug/kg	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10
13C8-FOSA (surr.)	1	%	78
D3-N-MeFOSA (surr.)	1	%	47
D5-N-EtFOSA (surr.)	1	%	66
D7-N-MeFOSE (surr.)	1	%	59
D9-N-EtFOSE (surr.)	1	%	56

DRAFT

Client Sample ID			[G01]T01_20211216
Sample Matrix			Soil
Eurofins Sample No.			S21-De54917
Date Sampled			Dec 16, 2021
Test/Reference	LOR	Unit	
Perfluoroalkyl sulfonamido substances			
D5-N-EtFOSAA (surr.)	1	%	87
D3-N-MeFOSAA (surr.)	1	%	141
Perfluoroalkyl sulfonic acids (PFSAs)			
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	[N09]8.2
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5
13C3-PFBS (surr.)	1	%	94
18O2-PFHxS (surr.)	1	%	127
13C8-PFOS (surr.)	1	%	115
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)[N11]	10	ug/kg	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5
13C2-4:2 FTSA (surr.)	1	%	163
13C2-6:2 FTSA (surr.)	1	%	196
13C2-8:2 FTSA (surr.)	1	%	171
13C2-10:2 FTSA (surr.)	1	%	INT
PFASs Summations			
Sum (PFHxS + PFOS)*	5	ug/kg	8.2
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	8.2
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	8.2
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50

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Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Dec 23, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Dec 23, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Dec 23, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Dec 23, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons	Sydney	Dec 23, 2021	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Metals M8	Sydney	Dec 23, 2021	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Volatile Organics	Sydney	Dec 23, 2021	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices			
Eurofins Suite B15			
Organochlorine Pesticides	Sydney	Dec 23, 2021	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Organophosphorus Pesticides	Sydney	Dec 23, 2021	14 Days
- Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS			
Polychlorinated Biphenyls	Sydney	Dec 23, 2021	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
% Moisture	Sydney	Dec 23, 2021	14 Days
- Method: LTM-GEN-7080 Moisture			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Brisbane	Dec 31, 2021	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Brisbane	Dec 31, 2021	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Brisbane	Dec 31, 2021	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Brisbane	Dec 31, 2021	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

Company Name: ERM Sydney
Address: Level 15, 309 Kent St
Sydney
NSW 2000

Project Name: BURWOOD
Project ID: 0577577

Order No.:
Report #: 852763
Phone: 02 8584 8888
Fax: 02 8584 8800

Received: Dec 20, 2021 4:46 PM
Due: Dec 29, 2021
Priority: 5 Day
Contact Name: Jessica Lawrence

Eurofins Analytical Services Manager : John Nguyen

Sample Detail						Eurofins Suite B15	Volatile Organics	Moisture Set	Eurofins Suite B7	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254										
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794										X
Mayfield Laboratory - NATA # 1261 Site # 25079										
Perth Laboratory - NATA # 2377 Site # 2370										
External Laboratory										
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**					
1	T01_20211216	Dec 16, 2021		Soil	S21-De54917	X	X	X	X	X
Test Counts						1	1	1	1	1

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Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/kg: milligrams per kilogram	**mg/L:** milligrams per litre	**µg/L:** micrograms per litre
ppm: parts per million	**ppb:** parts per billion	**%:** Percentage
org/100mL: Organisms per 100 millilitres	**NTU:** Nephelometric Turbidity Units	**MPN/100mL:** Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.4
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

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QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

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Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
1.1.1-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.1.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dibromoethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.3-Trichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.4-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.3.5-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
2-Butanone (MEK)	mg/kg	< 0.5			0.5	Pass	
2-Propanone (Acetone)	mg/kg	< 0.5			0.5	Pass	
4-Chlorotoluene	mg/kg	< 0.5			0.5	Pass	
4-Methyl-2-pentanone (MIBK)	mg/kg	< 0.5			0.5	Pass	
Allyl chloride	mg/kg	< 0.5			0.5	Pass	
Bromobenzene	mg/kg	< 0.5			0.5	Pass	
Bromochloromethane	mg/kg	< 0.5			0.5	Pass	
Bromodichloromethane	mg/kg	< 0.5			0.5	Pass	
Bromoform	mg/kg	< 0.5			0.5	Pass	
Bromomethane	mg/kg	< 0.5			0.5	Pass	
Carbon disulfide	mg/kg	< 0.5			0.5	Pass	
Carbon Tetrachloride	mg/kg	< 0.5			0.5	Pass	
Chlorobenzene	mg/kg	< 0.5			0.5	Pass	
Chloroethane	mg/kg	< 0.5			0.5	Pass	
Chloroform	mg/kg	< 0.5			0.5	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chloromethane	mg/kg	< 0.5			0.5	Pass	
cis-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
cis-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Dibromochloromethane	mg/kg	< 0.5			0.5	Pass	
Dibromomethane	mg/kg	< 0.5			0.5	Pass	
Dichlorodifluoromethane	mg/kg	< 0.5			0.5	Pass	
Iodomethane	mg/kg	< 0.5			0.5	Pass	
Isopropyl benzene (Cumene)	mg/kg	< 0.5			0.5	Pass	
Methylene Chloride	mg/kg	< 0.5			0.5	Pass	
Styrene	mg/kg	< 0.5			0.5	Pass	
Tetrachloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Trichloroethene	mg/kg	< 0.5			0.5	Pass	
Trichlorofluoromethane	mg/kg	< 0.5			0.5	Pass	
Vinyl chloride	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-HCH	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-HCH	mg/kg	< 0.05			0.05	Pass	
d-HCH	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-HCH (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.05			0.05	Pass	
Toxaphene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organophosphorus Pesticides							
Azinphos-methyl	mg/kg	< 0.2			0.2	Pass	
Bolstar	mg/kg	< 0.2			0.2	Pass	
Chlorfenvinphos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos-methyl	mg/kg	< 0.2			0.2	Pass	
Coumaphos	mg/kg	< 2			2	Pass	
Demeton-S	mg/kg	< 0.2			0.2	Pass	
Demeton-O	mg/kg	< 0.2			0.2	Pass	
Diazinon	mg/kg	< 0.2			0.2	Pass	
Dichlorvos	mg/kg	< 0.2			0.2	Pass	
Dimethoate	mg/kg	< 0.2			0.2	Pass	
Disulfoton	mg/kg	< 0.2			0.2	Pass	
EPN	mg/kg	< 0.2			0.2	Pass	
Ethion	mg/kg	< 0.2			0.2	Pass	
Ethoprop	mg/kg	< 0.2			0.2	Pass	
Ethyl parathion	mg/kg	< 0.2			0.2	Pass	
Fenitrothion	mg/kg	< 0.2			0.2	Pass	
Fensulfothion	mg/kg	< 0.2			0.2	Pass	
Fenthion	mg/kg	< 0.2			0.2	Pass	
Malathion	mg/kg	< 0.2			0.2	Pass	
Merphos	mg/kg	< 0.2			0.2	Pass	
Methyl parathion	mg/kg	< 0.2			0.2	Pass	
Mevinphos	mg/kg	< 0.2			0.2	Pass	
Monocrotophos	mg/kg	< 2			2	Pass	
Naled	mg/kg	< 0.2			0.2	Pass	
Omethoate	mg/kg	< 2			2	Pass	
Phorate	mg/kg	< 0.2			0.2	Pass	
Pirimiphos-methyl	mg/kg	< 0.2			0.2	Pass	
Pyrazophos	mg/kg	< 0.2			0.2	Pass	
Ronnel	mg/kg	< 0.2			0.2	Pass	
Terbufos	mg/kg	< 0.2			0.2	Pass	
Tetrachlorvinphos	mg/kg	< 0.2			0.2	Pass	
Tokuthion	mg/kg	< 0.2			0.2	Pass	
Trichloronate	mg/kg	< 0.2			0.2	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.1			0.1	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	Pass	
Aroclor-1232	mg/kg	< 0.1			0.1	Pass	
Aroclor-1242	mg/kg	< 0.1			0.1	Pass	
Aroclor-1248	mg/kg	< 0.1			0.1	Pass	
Aroclor-1254	mg/kg	< 0.1			0.1	Pass	
Aroclor-1260	mg/kg	< 0.1			0.1	Pass	
Total PCB*	mg/kg	< 0.1			0.1	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/kg	< 5			5	Pass	
Perfluoropentanoic acid (PFPeA)	ug/kg	< 5			5	Pass	
Perfluorohexanoic acid (PFHxA)	ug/kg	< 5			5	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/kg	< 5			5	Pass	
Perfluorooctanoic acid (PFOA)	ug/kg	< 5			5	Pass	
Perfluorononanoic acid (PFNA)	ug/kg	< 5			5	Pass	
Perfluorodecanoic acid (PFDA)	ug/kg	< 5			5	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/kg	< 5			5	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/kg	< 5			5	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/kg	< 5			5	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/kg	< 5			5	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/kg	< 5			5	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/kg	< 5			5	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/kg	< 5			5	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	ug/kg	< 5			5	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	ug/kg	< 5			5	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	< 10			10	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	< 10			10	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	ug/kg	< 5			5	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/kg	< 5			5	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/kg	< 5			5	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/kg	< 5			5	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	< 5			5	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/kg	< 5			5	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/kg	< 5			5	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/kg	< 5			5	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	ug/kg	< 10			10	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	96			70-130	Pass	
TRH C10-C14	%	103			70-130	Pass	
Naphthalene	%	110			70-130	Pass	
TRH C6-C10	%	90			70-130	Pass	
TRH >C10-C16	%	102			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	125			70-130	Pass	
Toluene	%	122			70-130	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Ethylbenzene	%	113			70-130	Pass	
m&p-Xylenes	%	129			70-130	Pass	
o-Xylene	%	129			70-130	Pass	
Xylenes - Total*	%	129			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethene	%	117			70-130	Pass	
1.1.1-Trichloroethane	%	108			70-130	Pass	
1.2-Dichlorobenzene	%	115			70-130	Pass	
1.2-Dichloroethane	%	128			70-130	Pass	
Trichloroethene	%	108			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	75			70-130	Pass	
Acenaphthylene	%	89			70-130	Pass	
Anthracene	%	78			70-130	Pass	
Benz(a)anthracene	%	77			70-130	Pass	
Benzo(a)pyrene	%	75			70-130	Pass	
Benzo(b&j)fluoranthene	%	75			70-130	Pass	
Benzo(g.h.i)perylene	%	75			70-130	Pass	
Benzo(k)fluoranthene	%	79			70-130	Pass	
Chrysene	%	73			70-130	Pass	
Dibenz(a.h)anthracene	%	70			70-130	Pass	
Fluoranthene	%	74			70-130	Pass	
Fluorene	%	79			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	70			70-130	Pass	
Naphthalene	%	75			70-130	Pass	
Phenanthrene	%	73			70-130	Pass	
Pyrene	%	79			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	76			70-130	Pass	
4.4'-DDD	%	86			70-130	Pass	
4.4'-DDE	%	83			70-130	Pass	
4.4'-DDT	%	70			70-130	Pass	
a-HCH	%	82			70-130	Pass	
Aldrin	%	80			70-130	Pass	
b-HCH	%	85			70-130	Pass	
d-HCH	%	74			70-130	Pass	
Dieldrin	%	95			70-130	Pass	
Endosulfan I	%	82			70-130	Pass	
Endosulfan II	%	84			70-130	Pass	
Endosulfan sulphate	%	75			70-130	Pass	
Endrin	%	92			70-130	Pass	
Endrin aldehyde	%	123			70-130	Pass	
Endrin ketone	%	74			70-130	Pass	
g-HCH (Lindane)	%	84			70-130	Pass	
Heptachlor	%	74			70-130	Pass	
Heptachlor epoxide	%	74			70-130	Pass	
Hexachlorobenzene	%	76			70-130	Pass	
Methoxychlor	%	119			70-130	Pass	
LCS - % Recovery							
Organophosphorus Pesticides							
Diazinon	%	77			70-130	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Dimethoate	%	70			70-130	Pass	
Ethion	%	116			70-130	Pass	
Fenitrothion	%	108			70-130	Pass	
Mevinphos	%	95			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1016	%	80			70-130	Pass	
Aroclor-1260	%	77			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	104			80-120	Pass	
Cadmium	%	105			80-120	Pass	
Chromium	%	108			80-120	Pass	
Copper	%	108			80-120	Pass	
Lead	%	103			80-120	Pass	
Mercury	%	104			80-120	Pass	
Nickel	%	107			80-120	Pass	
Zinc	%	103			80-120	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	112			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	107			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	88			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	101			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	98			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	111			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	100			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	147			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	114			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	139			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	119			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	144			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	82			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	121			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	%	115			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	%	98			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	90			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	115			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	85			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	108			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	100			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	89			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	107			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	148			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	112			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	123			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	92			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	%	135			50-150	Pass	

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Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)			%	125			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)			%	113			50-150	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C10-C14	S21-De51711	NCP	%	100			70-130	Pass	
Naphthalene	S21-De34818	NCP	%	81			70-130	Pass	
TRH >C10-C16	S21-De51711	NCP	%	106			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S21-De34818	NCP	%	76			70-130	Pass	
Toluene	S21-De34818	NCP	%	73			70-130	Pass	
Ethylbenzene	S21-De54636	NCP	%	80			70-130	Pass	
m&p-Xylenes	S21-De34818	NCP	%	75			70-130	Pass	
o-Xylene	S21-De34818	NCP	%	80			70-130	Pass	
Xylenes - Total*	S21-De34818	NCP	%	77			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S21-De56761	NCP	%	87			70-130	Pass	
Acenaphthylene	S21-De56761	NCP	%	101			70-130	Pass	
Anthracene	S21-De56761	NCP	%	89			70-130	Pass	
Benz(a)anthracene	S21-De56761	NCP	%	90			70-130	Pass	
Benzo(a)pyrene	S21-De56761	NCP	%	90			70-130	Pass	
Benzo(b&j)fluoranthene	S21-De56761	NCP	%	92			70-130	Pass	
Benzo(g.h.i)perylene	S21-De56761	NCP	%	77			70-130	Pass	
Benzo(k)fluoranthene	S21-De56761	NCP	%	90			70-130	Pass	
Chrysene	S21-De56761	NCP	%	86			70-130	Pass	
Dibenz(a.h)anthracene	S21-De56761	NCP	%	79			70-130	Pass	
Fluoranthene	S21-De56761	NCP	%	83			70-130	Pass	
Fluorene	S21-De54917	CP	%	93			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S21-De56761	NCP	%	79			70-130	Pass	
Naphthalene	S21-De56761	NCP	%	88			70-130	Pass	
Phenanthrene	S21-De56761	NCP	%	87			70-130	Pass	
Pyrene	S21-De56761	NCP	%	90			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S21-De56761	NCP	%	87			70-130	Pass	
4.4'-DDD	S21-De56761	NCP	%	100			70-130	Pass	
4.4'-DDE	S21-De56761	NCP	%	92			70-130	Pass	
4.4'-DDT	S21-De56761	NCP	%	84			70-130	Pass	
a-HCH	S21-De56761	NCP	%	94			70-130	Pass	
Aldrin	S21-De56761	NCP	%	87			70-130	Pass	
b-HCH	S21-De56761	NCP	%	97			70-130	Pass	
d-HCH	S21-De56761	NCP	%	90			70-130	Pass	
Dieldrin	S21-De56761	NCP	%	106			70-130	Pass	
Endosulfan I	S21-De56761	NCP	%	96			70-130	Pass	
Endosulfan II	S21-De56761	NCP	%	93			70-130	Pass	
Endrin	S21-De56761	NCP	%	106			70-130	Pass	
Endrin ketone	S21-De56761	NCP	%	71			70-130	Pass	
g-HCH (Lindane)	S21-De56761	NCP	%	92			70-130	Pass	
Heptachlor	S21-De56761	NCP	%	70			70-130	Pass	
Heptachlor epoxide	S21-De56761	NCP	%	87			70-130	Pass	
Hexachlorobenzene	S21-De56761	NCP	%	85			70-130	Pass	
Spike - % Recovery									

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Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Polychlorinated Biphenyls				Result 1					
Aroclor-1016	S21-De56761	NCP	%	85			70-130	Pass	
Aroclor-1260	S21-De56761	NCP	%	84			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S21-De54764	NCP	%	108			75-125	Pass	
Cadmium	S21-De54764	NCP	%	102			75-125	Pass	
Chromium	S21-De54764	NCP	%	97			75-125	Pass	
Copper	S21-De54764	NCP	%	95			75-125	Pass	
Lead	S21-De54764	NCP	%	90			75-125	Pass	
Mercury	S21-De54764	NCP	%	96			75-125	Pass	
Nickel	S21-De54764	NCP	%	90			75-125	Pass	
Zinc	S21-De54764	NCP	%	79			75-125	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	B21-De42378	NCP	%	111			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	B21-De42378	NCP	%	105			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	B21-De42378	NCP	%	74			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	B21-De42378	NCP	%	101			50-150	Pass	
Perfluorooctanoic acid (PFOA)	B21-De42378	NCP	%	95			50-150	Pass	
Perfluorononanoic acid (PFNA)	B21-De42378	NCP	%	107			50-150	Pass	
Perfluorodecanoic acid (PFDA)	B21-De42378	NCP	%	89			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	B21-De42378	NCP	%	143			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	B21-De42378	NCP	%	112			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	B21-De42378	NCP	%	146			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	B21-De42378	NCP	%	146			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	B21-De42378	NCP	%	145			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	B21-De42378	NCP	%	89			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	B21-De42378	NCP	%	107			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	B21-De42378	NCP	%	83			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	B21-De42378	NCP	%	120			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	B21-De42378	NCP	%	90			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	B21-De42378	NCP	%	114			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	B21-De42378	NCP	%	87			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	B21-De42378	NCP	%	107			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	B21-De42378	NCP	%	144			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	B21-De42378	NCP	%	96			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	B21-De42378	NCP	%	111			50-150	Pass	

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Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluoroheptanesulfonic acid (PFHpS)	B21-De42378	NCP	%	138			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	B21-De42378	NCP	%	102			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	B21-De42378	NCP	%	105			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	B21-De42378	NCP	%	115			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	B21-De42378	NCP	%	77			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	B21-De42378	NCP	%	107			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	B21-De42378	NCP	%	135			50-150	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	S21-De54633	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	N21-De38148	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	N21-De38148	NCP	mg/kg	57	52	9.0	30%	Pass	
TRH C29-C36	N21-De38148	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
Naphthalene	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S21-De54633	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	N21-De38148	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	N21-De38148	NCP	mg/kg	110	110	5.0	30%	Pass	
TRH >C34-C40	N21-De38148	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S21-De54633	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S21-De54633	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S21-De54633	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S21-De54633	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S21-De54633	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S21-De54633	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1-Dichloroethene	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1-Trichloroethane	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2-Trichloroethane	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichlorobenzene	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloroethane	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloropropane	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3-Trichloropropane	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trimethylbenzene	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichlorobenzene	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichloropropane	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3.5-Trimethylbenzene	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

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Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.4-Dichlorobenzene	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Butanone (MEK)	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Propanone (Acetone)	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chlorotoluene	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Allyl chloride	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromobenzene	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromochloromethane	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromodichloromethane	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromoform	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromomethane	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon disulfide	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon Tetrachloride	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chlorobenzene	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroethane	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroform	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloromethane	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.2-Dichloroethene	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.3-Dichloropropene	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromochloromethane	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromomethane	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorodifluoromethane	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Iodomethane	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Isopropyl benzene (Cumene)	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Methylene Chloride	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Styrene	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Tetrachloroethene	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.2-Dichloroethene	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.3-Dichloropropene	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichloroethene	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichlorofluoromethane	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Vinyl chloride	S21-De54633	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S21-De54702	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S21-De54702	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S21-De54702	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S21-De54702	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S21-De54702	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S21-De54702	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S21-De54702	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S21-De54702	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S21-De54702	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S21-De54702	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S21-De54702	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S21-De54702	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S21-De54702	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S21-De54702	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S21-De54702	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S21-De54702	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	S21-De54702	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4.4'-DDD	S21-De54702	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4.4'-DDE	S21-De54702	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4.4'-DDT	S21-De54702	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-HCH	S21-De54702	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	S21-De54702	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-HCH	S21-De54702	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-HCH	S21-De54702	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	S21-De54702	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	S21-De54702	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	S21-De54702	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	S21-De54702	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	S21-De54702	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	S21-De54702	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	S21-De54702	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-HCH (Lindane)	S21-De54702	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	S21-De54702	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	S21-De54702	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	S21-De54702	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	S21-De54702	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Toxaphene	S21-De54702	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Organophosphorus Pesticides				Result 1	Result 2	RPD		
Azinphos-methyl	S21-De54702	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Bolstar	S21-De54702	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Chlorfenvinphos	S21-De54702	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Chlorpyrifos	S21-De54702	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Chlorpyrifos-methyl	S21-De54702	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Coumaphos	S21-De54702	NCP	mg/kg	< 2	< 2	<1	30%	Pass
Demeton-S	S21-De54702	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Demeton-O	S21-De54702	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Diazinon	S21-De54702	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Dichlorvos	S21-De54702	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Dimethoate	S21-De54702	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Disulfoton	S21-De54702	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
EPN	S21-De54702	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Ethion	S21-De54702	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Ethoprop	S21-De54702	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Ethyl parathion	S21-De54702	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Fenitrothion	S21-De54702	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Fensulfothion	S21-De54702	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Fenthion	S21-De54702	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Malathion	S21-De54702	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Merphos	S21-De54702	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Methyl parathion	S21-De54702	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Mevinphos	S21-De54702	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Monocrotophos	S21-De54702	NCP	mg/kg	< 2	< 2	<1	30%	Pass
Naled	S21-De54702	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Omethoate	S21-De54702	NCP	mg/kg	< 2	< 2	<1	30%	Pass
Phorate	S21-De54702	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Pirimiphos-methyl	S21-De54702	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Pyrazophos	S21-De54702	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Ronnel	S21-De54702	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Terbufos	S21-De54702	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass

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Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Tetrachlorvinphos	S21-De54702	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tokuthion	S21-De54702	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Trichloronate	S21-De54702	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	S21-De54702	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1221	S21-De54702	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	S21-De54702	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1242	S21-De54702	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1248	S21-De54702	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1254	S21-De54702	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1260	S21-De54702	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Total PCB*	S21-De54702	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-De54763	NCP	mg/kg	8.1	10	22	30%	Pass	
Cadmium	S21-De54763	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S21-De54763	NCP	mg/kg	16	17	5.0	30%	Pass	
Copper	S21-De54763	NCP	mg/kg	57	57	1.0	30%	Pass	
Lead	S21-De54763	NCP	mg/kg	42	29	37	30%	Fail	Q15
Mercury	S21-De54763	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S21-De54763	NCP	mg/kg	43	45	4.0	30%	Pass	
Zinc	S21-De54763	NCP	mg/kg	57	67	16	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-De54909	NCP	%	24	26	7.0	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	B21-De42159	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	B21-De42159	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	B21-De42159	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	B21-De42159	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	B21-De42159	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	B21-De42159	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	B21-De42159	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	B21-De42159	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	B21-De42159	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	B21-De42159	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	B21-De42159	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	B21-De42159	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	B21-De42159	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	B21-De42159	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	B21-De42159	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	B21-De42159	NCP	ug/kg	< 5	< 5	<1	30%	Pass	

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Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	B21-De42159	NCP	ug/kg	< 10	< 10	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	B21-De42159	NCP	ug/kg	< 10	< 10	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	B21-De42159	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	B21-De42159	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	B21-De42159	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	B21-De42159	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	B21-De42159	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	B21-De42159	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	B21-De42159	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	B21-De42159	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	B21-De42159	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	B21-De42159	NCP	ug/kg	< 10	< 10	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	B21-De42159	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	B21-De42159	NCP	ug/kg	< 5	< 5	<1	30%	Pass	

DRAFT

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
G01	The LORs have been raised due to matrix interference
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
N09	Quantification of linear and branched isomers has been conducted as a single total response using the relative response factor for the corresponding linear/branched standard.
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised by:

Ursula Long	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
John Nguyen	Senior Analyst-Metal (NSW)
Roopesh Rangarajan	Senior Analyst-Volatile (NSW)
Sarah McCallion	Senior Analyst-PFAS (QLD)



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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Subcon / Transport / Lab / Split PO:

Lab / Analysis: Newcastle → Asbestos

Organised by / Date: Eurofins → TQ3_20211217
TQ4_20211217

Relinquished By / Date:

Connote / Courier: TQ2_20211217

WO No:

Attached if PO / Material Sheet:

CHAIN OF CUSTODY

(ALS)

CLIENT: ERM
OFFICE: Sydney
PROJECT: 0391571 - Burwood
ORDER NUMBER:
PROJECT MANAGER: Jessica Lymmoo
SAMPLER: Tristan Rodrigues
COC emailed to ALS? YES
Email Reports to:
Email Invoices to:

CONTACT PH: 0249215554
SAMPLER MOB. (+61 0487181267)
EDD FORMAT (or default):

TURNAROUND REQUIREMENTS
ALS QUOTE NO:
COC SEQUENCE NUMBER (Circle)

FOR LABORATORY USE ONLY (Circle)
2.5

RELINQUISHED BY: Tristan Rodrigues
DATE/TIME: 20/12/21

RECEIVED BY: SCHOT ARD
DATE/TIME: 20/12/21 1750

RELINQUISHED BY:
DATE/TIME:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE ONLY	SAMPLE DETAILS			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES				
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE	TOTAL BOTTLES	HF ASS (ALS Sydney)	SSG	Asbestos	VOC	HOLD
1	TQ3_20211217	17/12/21	Soil			X	X		X	
2	TQ3_20211217					X	X		X	
3	BWR_BH120_0.1						X		X	
4	BWR_BH120_0.5					X	X			
5	BWR_BH105_0.2					X	X		X	
6	TQ4_20211217					X	X		X	
7	TQ4_20211217									
8	BWR_BH108_0.3					X	X		X	
9	- 2.4						X			
10	- 5.1						X		X	
11	- 11.0						X			
12	- 20.0					X	X		X	
13	- 17.0						X			

Please Send to Eurofins

Please Send to Eurofins

M. H
22/12/21

#853149

Environmental Division
Sydney
Work Order Reference
ES2146625

Telephone : +61-2-8784 8555

DRAFT

CHAIN OF CUSTODY

ALS

CLIENT: EPM

OFFICE: Sydney

PROJECT: 0577577 - Burwood

ORDER NUMBER:

PROJECT MANAGER: Jessica Lawrence

SAMPLER: Tristan Rodrigues

COC emailed to ALS? YES

Email Reports to:

Email Invoice to:

FORMATTED REQUIREMENTS:

ALS QUOTE NO.:

CONTACT PH: 0429135554

SAMPLER MOBILE: 0457187687

EDD FORMAT (or default):

COC SEQUENCE NUMBER (XX of XX)

FOR LABORATORY USE ONLY

25

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Tristan Rodrigues			
DATE/TIME: 30/11/21	DATE/TIME: 2017121211750	DATE/TIME:	DATE/TIME:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE ONLY	SAMPLE DETAILS MATRIX: SOIL (S) WATER (W)	CONTAINER INFORMATION	ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to the right)

LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes)	FILTERED	TOTAL BOTTLES	PAH-S 16A (Analytes LOR= 0.05mg/kg)	STS	Asbestos	VOC	HOLD
12	BUR_BH106_0.2	17/12/21	Soil				X	X	X	X	
13	_1.0							X			
14	_2.0							X		X	
15	_3.0							X			
16	_4.0						X	X		X	
17	_5.0							X			
18	DUP_20211217						X	X		X	
	TRIP_20211217						X	X		X	
19	BUR_BH107_0.2						X	X	X		
20	_1.0							X		X	
21	_4.0							X			
22	_3.0						X	X		X	
23	_5.6							X		X	

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24	BUR_BH102_0.15	16/12/21	29	Trip Spike 24	13/12/21
25	Trip Blank 1	15/12/21	30	TSC 28	13/12/21
26	Trip Spike 23	13/12/21	31	EQS_20211217	17/12/21
27	TSC 23	13/12/21			
28	Trip Blank 2	15/12/21			

M·H

#853149

22/12/21

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eurofins | Environment Testing

www.eurofins.com.au EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

Sample Receipt Advice

Company name:	ERM Sydney
Contact name:	Jessica Lawrence
Project name:	0577577-BURWOOD
Project ID:	Not provided
Turnaround time:	10 Day
Date/Time received	Dec 22, 2021 9:18 AM
Eurofins reference	853149

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
×	Split sample sent to requested external lab.
×	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

John Nguyen on phone : or by email: JohnNguyen@eurofins.com

Results will be delivered electronically via email to Jessica Lawrence - jessica.lawrence@erm.com.

Note: A copy of these results will also be delivered to the general ERM Sydney email address.

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eurofins | Environment Testing

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

Company Name: ERM Sydney
Address: Level 15, 309 Kent St
Sydney
NSW 2000

Project Name: 0577577-BURWOOD

Order No.:
Report #: 853149
Phone: 02 8584 8888
Fax: 02 8584 8800

Received: Dec 22, 2021 9:18 AM
Due: Jan 7, 2022
Priority: 10 Day
Contact Name: Jessica Lawrence

Eurofins Analytical Services Manager : John Nguyen

Sample Detail						Volatile Organics	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	Suite B10B:TRH/BTEXN/PAH/OCP/OPP/PCB/M8
Melbourne Laboratory - NATA # 1261 Site # 1254									
Sydney Laboratory - NATA # 1261 Site # 18217						X	X		X
Brisbane Laboratory - NATA # 1261 Site # 20794								X	
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**				
1	TO3-20211217	Dec 17, 2021		Soil	S21-De58036	X	X	X	X
2	TO4-20211217	Dec 17, 2021		Soil	S21-De58037	X	X	X	X
3	TO2-20211217	Dec 17, 2021		Soil	S21-De58038	X	X	X	X
Test Counts						3	3	3	3

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ERM Sydney
Level 15, 309 Kent St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: **Jessica Lawrence**

Report ***853149-S***
Project name 0577577-BURWOOD
Received Date Dec 22, 2021

Client Sample ID			**TO3-20211217**	**TO4-20211217**	**TO2-20211217**
Sample Matrix			**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**S21-De58036**	**S21-De58037**	**S21-De58038**
Date Sampled			**Dec 17, 2021**	**Dec 17, 2021**	**Dec 17, 2021**
Test/Reference	LOR	Unit			
Total Recoverable Hydrocarbons					
TRH C6-C9	20	mg/kg	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100
BTEX					
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	99	82	84
Volatile Organics					
1.1-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.1-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.2-Dibromoethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.2-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.2-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.3-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5

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Client Sample ID			TO3-20211217	TO4-20211217	TO2-20211217
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			S21-De58036	S21-De58037	S21-De58038
Date Sampled			Dec 17, 2021	Dec 17, 2021	Dec 17, 2021
Test/Reference	LOR	Unit			
Volatile Organics					
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
2-Butanone (MEK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	< 0.5	< 0.5
4-Chlorotoluene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Allyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Bromobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Bromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Bromodichloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Bromoform	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Bromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Carbon disulfide	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Chlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Chloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Chloroform	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Chloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Dibromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Dibromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Iodomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	< 0.5	< 0.5
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Methylene Chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Styrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Tetrachloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Trichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Vinyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3
Total MAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr.)	1	%	99	82	84
Toluene-d8 (surr.)	1	%	110	92	97
Polycyclic Aromatic Hydrocarbons					
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	0.7	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	1.0	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.3	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5

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Client Sample ID			TO3-20211217	TO4-20211217	TO2-20211217
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			S21-De58036	S21-De58037	S21-De58038
Date Sampled			Dec 17, 2021	Dec 17, 2021	Dec 17, 2021
Test/Reference	LOR	Unit			
Polycyclic Aromatic Hydrocarbons					
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	0.6	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	0.7	< 0.5
Chrysene	0.5	mg/kg	< 0.5	0.6	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	1.0	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	0.6	< 0.5
Pyrene	0.5	mg/kg	< 0.5	1.1	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	5.1	< 0.5
2-Fluorobiphenyl (surr.)	1	%	120	88	97
p-Terphenyl-d14 (surr.)	1	%	106	66	80
Organochlorine Pesticides					
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	119	68	93
Tetrachloro-m-xylene (surr.)	1	%	123	87	97

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Client Sample ID			TO3-20211217	TO4-20211217	TO2-20211217
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			S21-De58036	S21-De58037	S21-De58038
Date Sampled			Dec 17, 2021	Dec 17, 2021	Dec 17, 2021
Test/Reference	LOR	Unit			
Organophosphorus Pesticides					
Azinphos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Bolstar	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Chlorfenvinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Chlorpyrifos	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Coumaphos	2	mg/kg	< 2	< 2	< 2
Demeton-S	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Demeton-O	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Diazinon	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Dichlorvos	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Dimethoate	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Disulfoton	0.2	mg/kg	< 0.2	< 0.2	< 0.2
EPN	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Ethion	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Ethoprop	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Ethyl parathion	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Fenitrothion	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Fensulfothion	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Fenthion	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Malathion	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Merphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Methyl parathion	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Mevinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Monocrotophos	2	mg/kg	< 2	< 2	< 2
Naled	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Omethoate	2	mg/kg	< 2	< 2	< 2
Phorate	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Pirimiphos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Pyrazophos	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Ronnel	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Terbufos	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Tetrachlorvinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Tokuthion	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Trichloronate	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Triphenylphosphate (surr.)	1	%	104	60	82
Polychlorinated Biphenyls					
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	119	68	93
Tetrachloro-m-xylene (surr.)	1	%	123	87	97

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Client Sample ID			TO3-20211217	TO4-20211217	TO2-20211217
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			S21-De58036	S21-De58037	S21-De58038
Date Sampled			Dec 17, 2021	Dec 17, 2021	Dec 17, 2021
Test/Reference	LOR	Unit			
Heavy Metals					
Arsenic	2	mg/kg	8.5	3.8	5.6
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	11	14	9.3
Copper	5	mg/kg	22	32	28
Lead	5	mg/kg	11	150	14
Mercury	0.1	mg/kg	< 0.1	0.2	< 0.1
Nickel	5	mg/kg	< 5	8.7	5.3
Zinc	5	mg/kg	15	200	27
% Moisture	1	%	11	22	8.6
Perfluoroalkyl carboxylic acids (PFCAs)					
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	< 5	< 5	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	< 5	< 5	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	< 5	< 5	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	< 5	< 5	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	< 5	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	< 5	< 5	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	< 5	< 5	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	< 5	< 5	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	< 5	< 5	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	< 5	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5	< 5	< 5
13C4-PFBA (surr.)	1	%	151	106	92
13C5-PFPeA (surr.)	1	%	130	92	76
13C5-PFHxA (surr.)	1	%	124	91	96
13C4-PFHpA (surr.)	1	%	130	89	86
13C8-PFOA (surr.)	1	%	122	87	82
13C5-PFNA (surr.)	1	%	124	92	90
13C6-PFDA (surr.)	1	%	128	96	89
13C2-PFUnDA (surr.)	1	%	116	83	71
13C2-PFDoDA (surr.)	1	%	152	94	84
13C2-PFTeDA (surr.)	1	%	113	88	93
Perfluoroalkyl sulfonamido substances					
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)[N11]	5	ug/kg	< 5	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)[N11]	5	ug/kg	< 5	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10	< 10	< 10
13C8-FOSA (surr.)	1	%	151	103	96
D3-N-MeFOSA (surr.)	1	%	110	86	84
D5-N-EtFOSA (surr.)	1	%	95	55	109
D7-N-MeFOSE (surr.)	1	%	119	86	121
D9-N-EtFOSE (surr.)	1	%	128	82	135
D5-N-EtFOSAA (surr.)	1	%	110	76	74
D3-N-MeFOSAA (surr.)	1	%	121	84	78

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Client Sample ID			TO3-20211217	TO4-20211217	TO2-20211217
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			S21-De58036	S21-De58037	S21-De58038
Date Sampled			Dec 17, 2021	Dec 17, 2021	Dec 17, 2021
Test/Reference	LOR	Unit			
Perfluoroalkyl sulfonic acids (PFSAs)					
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	< 5	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	136	89	94
18O2-PFHxS (surr.)	1	%	125	85	89
13C8-PFOS (surr.)	1	%	122	88	95
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)[N11]	10	ug/kg	< 10	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	137	121	146
13C2-6:2 FTSA (surr.)	1	%	157	102	108
13C2-8:2 FTSA (surr.)	1	%	120	100	101
13C2-10:2 FTSA (surr.)	1	%	125	93	103
PFASs Summations					
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	< 5	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	< 10	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50	< 50	< 50

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Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Dec 30, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Dec 30, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Dec 30, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Dec 30, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons	Sydney	Dec 30, 2021	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Organochlorine Pesticides	Sydney	Dec 30, 2021	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Organophosphorus Pesticides	Sydney	Dec 30, 2021	14 Days
- Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS			
Polychlorinated Biphenyls	Sydney	Dec 30, 2021	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Metals M8	Sydney	Dec 30, 2021	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Volatile Organics	Sydney	Dec 30, 2021	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices			
% Moisture	Sydney	Dec 24, 2021	14 Days
- Method: LTM-GEN-7080 Moisture			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Brisbane	Jan 05, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Brisbane	Jan 05, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Brisbane	Jan 05, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Brisbane	Jan 05, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

Company Name: ERM Sydney
Address: Level 15, 309 Kent St
Sydney
NSW 2000

Project Name: 0577577-BURWOOD

Order No.:
Report #: 853149
Phone: 02 8584 8888
Fax: 02 8584 8800

Received: Dec 22, 2021 9:18 AM
Due: Jan 7, 2022
Priority: 10 Day
Contact Name: Jessica Lawrence

Eurofins Analytical Services Manager : John Nguyen

Sample Detail						Volatile Organics	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	Suite B10B:TRH/BTEXN/PAH/OCP/OPP/PCB/M8
Melbourne Laboratory - NATA # 1261 Site # 1254									
Sydney Laboratory - NATA # 1261 Site # 18217						X	X		X
Brisbane Laboratory - NATA # 1261 Site # 20794								X	
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**				
1	TO3-20211217	Dec 17, 2021		Soil	S21-De58036	X	X	X	X
2	TO4-20211217	Dec 17, 2021		Soil	S21-De58037	X	X	X	X
3	TO2-20211217	Dec 17, 2021		Soil	S21-De58038	X	X	X	X
Test Counts						3	3	3	3

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Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/kg: milligrams per kilogram	**mg/L:** milligrams per litre	**µg/L:** micrograms per litre
ppm: parts per million	**ppb:** parts per billion	**%:** Percentage
org/100mL: Organisms per 100 millilitres	**NTU:** Nephelometric Turbidity Units	**MPN/100mL:** Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.4
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

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QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

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Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
1.1.1-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.1.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dibromoethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.3-Trichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.4-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.3.5-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
2-Butanone (MEK)	mg/kg	< 0.5			0.5	Pass	
2-Propanone (Acetone)	mg/kg	< 0.5			0.5	Pass	
4-Chlorotoluene	mg/kg	< 0.5			0.5	Pass	
4-Methyl-2-pentanone (MIBK)	mg/kg	< 0.5			0.5	Pass	
Allyl chloride	mg/kg	< 0.5			0.5	Pass	
Bromobenzene	mg/kg	< 0.5			0.5	Pass	
Bromochloromethane	mg/kg	< 0.5			0.5	Pass	
Bromodichloromethane	mg/kg	< 0.5			0.5	Pass	
Bromoform	mg/kg	< 0.5			0.5	Pass	
Bromomethane	mg/kg	< 0.5			0.5	Pass	
Carbon disulfide	mg/kg	< 0.5			0.5	Pass	
Carbon Tetrachloride	mg/kg	< 0.5			0.5	Pass	
Chlorobenzene	mg/kg	< 0.5			0.5	Pass	
Chloroethane	mg/kg	< 0.5			0.5	Pass	
Chloroform	mg/kg	< 0.5			0.5	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chloromethane	mg/kg	< 0.5			0.5	Pass	
cis-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
cis-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Dibromochloromethane	mg/kg	< 0.5			0.5	Pass	
Dibromomethane	mg/kg	< 0.5			0.5	Pass	
Dichlorodifluoromethane	mg/kg	< 0.5			0.5	Pass	
Iodomethane	mg/kg	< 0.5			0.5	Pass	
Isopropyl benzene (Cumene)	mg/kg	< 0.5			0.5	Pass	
Methylene Chloride	mg/kg	< 0.5			0.5	Pass	
Styrene	mg/kg	< 0.5			0.5	Pass	
Tetrachloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Trichloroethene	mg/kg	< 0.5			0.5	Pass	
Trichlorofluoromethane	mg/kg	< 0.5			0.5	Pass	
Vinyl chloride	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-HCH	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-HCH	mg/kg	< 0.05			0.05	Pass	
d-HCH	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-HCH (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.05			0.05	Pass	
Toxaphene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organophosphorus Pesticides							
Azinphos-methyl	mg/kg	< 0.2			0.2	Pass	
Bolstar	mg/kg	< 0.2			0.2	Pass	
Chlorfenvinphos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos-methyl	mg/kg	< 0.2			0.2	Pass	
Coumaphos	mg/kg	< 2			2	Pass	
Demeton-S	mg/kg	< 0.2			0.2	Pass	
Demeton-O	mg/kg	< 0.2			0.2	Pass	
Diazinon	mg/kg	< 0.2			0.2	Pass	
Dichlorvos	mg/kg	< 0.2			0.2	Pass	
Dimethoate	mg/kg	< 0.2			0.2	Pass	
Disulfoton	mg/kg	< 0.2			0.2	Pass	
EPN	mg/kg	< 0.2			0.2	Pass	
Ethion	mg/kg	< 0.2			0.2	Pass	
Ethoprop	mg/kg	< 0.2			0.2	Pass	
Ethyl parathion	mg/kg	< 0.2			0.2	Pass	
Fenitrothion	mg/kg	< 0.2			0.2	Pass	
Fensulfothion	mg/kg	< 0.2			0.2	Pass	
Fenthion	mg/kg	< 0.2			0.2	Pass	
Malathion	mg/kg	< 0.2			0.2	Pass	
Merphos	mg/kg	< 0.2			0.2	Pass	
Methyl parathion	mg/kg	< 0.2			0.2	Pass	
Mevinphos	mg/kg	< 0.2			0.2	Pass	
Monocrotophos	mg/kg	< 2			2	Pass	
Naled	mg/kg	< 0.2			0.2	Pass	
Omethoate	mg/kg	< 2			2	Pass	
Phorate	mg/kg	< 0.2			0.2	Pass	
Pirimiphos-methyl	mg/kg	< 0.2			0.2	Pass	
Pyrazophos	mg/kg	< 0.2			0.2	Pass	
Ronnel	mg/kg	< 0.2			0.2	Pass	
Terbufos	mg/kg	< 0.2			0.2	Pass	
Tetrachlorvinphos	mg/kg	< 0.2			0.2	Pass	
Tokuthion	mg/kg	< 0.2			0.2	Pass	
Trichloronate	mg/kg	< 0.2			0.2	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.1			0.1	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	Pass	
Aroclor-1232	mg/kg	< 0.1			0.1	Pass	
Aroclor-1242	mg/kg	< 0.1			0.1	Pass	
Aroclor-1248	mg/kg	< 0.1			0.1	Pass	
Aroclor-1254	mg/kg	< 0.1			0.1	Pass	
Aroclor-1260	mg/kg	< 0.1			0.1	Pass	
Total PCB*	mg/kg	< 0.1			0.1	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/kg	< 5			5	Pass	
Perfluoropentanoic acid (PFPeA)	ug/kg	< 5			5	Pass	
Perfluorohexanoic acid (PFHxA)	ug/kg	< 5			5	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/kg	< 5			5	Pass	
Perfluorooctanoic acid (PFOA)	ug/kg	< 5			5	Pass	
Perfluorononanoic acid (PFNA)	ug/kg	< 5			5	Pass	
Perfluorodecanoic acid (PFDA)	ug/kg	< 5			5	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/kg	< 5			5	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/kg	< 5			5	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/kg	< 5			5	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/kg	< 5			5	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/kg	< 5			5	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/kg	< 5			5	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/kg	< 5			5	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	ug/kg	< 5			5	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	ug/kg	< 5			5	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	< 10			10	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	< 10			10	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	ug/kg	< 5			5	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/kg	< 5			5	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/kg	< 5			5	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/kg	< 5			5	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	< 5			5	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/kg	< 5			5	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/kg	< 5			5	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/kg	< 5			5	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	ug/kg	< 10			10	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	83			70-130	Pass	
TRH C10-C14	%	91			70-130	Pass	
Naphthalene	%	73			70-130	Pass	
TRH C6-C10	%	78			70-130	Pass	
TRH >C10-C16	%	91			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	112			70-130	Pass	
Toluene	%	103			70-130	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Ethylbenzene	%	95			70-130	Pass	
m&p-Xylenes	%	124			70-130	Pass	
o-Xylene	%	117			70-130	Pass	
Xylenes - Total*	%	122			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethene	%	100			70-130	Pass	
1.1.1-Trichloroethane	%	73			70-130	Pass	
1.2-Dichlorobenzene	%	106			70-130	Pass	
1.2-Dichloroethane	%	99			70-130	Pass	
Trichloroethene	%	91			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	87			70-130	Pass	
Acenaphthylene	%	90			70-130	Pass	
Anthracene	%	97			70-130	Pass	
Benz(a)anthracene	%	82			70-130	Pass	
Benzo(a)pyrene	%	87			70-130	Pass	
Benzo(b&j)fluoranthene	%	82			70-130	Pass	
Benzo(g.h.i)perylene	%	82			70-130	Pass	
Benzo(k)fluoranthene	%	102			70-130	Pass	
Chrysene	%	86			70-130	Pass	
Dibenz(a.h)anthracene	%	88			70-130	Pass	
Fluoranthene	%	88			70-130	Pass	
Fluorene	%	92			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	90			70-130	Pass	
Naphthalene	%	88			70-130	Pass	
Phenanthrene	%	83			70-130	Pass	
Pyrene	%	89			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	87			70-130	Pass	
4.4'-DDD	%	77			70-130	Pass	
4.4'-DDE	%	90			70-130	Pass	
4.4'-DDT	%	80			70-130	Pass	
a-HCH	%	81			70-130	Pass	
Aldrin	%	85			70-130	Pass	
b-HCH	%	83			70-130	Pass	
d-HCH	%	82			70-130	Pass	
Dieldrin	%	88			70-130	Pass	
Endosulfan I	%	87			70-130	Pass	
Endosulfan II	%	82			70-130	Pass	
Endosulfan sulphate	%	89			70-130	Pass	
Endrin	%	93			70-130	Pass	
Endrin aldehyde	%	77			70-130	Pass	
Endrin ketone	%	85			70-130	Pass	
g-HCH (Lindane)	%	88			70-130	Pass	
Heptachlor	%	87			70-130	Pass	
Heptachlor epoxide	%	85			70-130	Pass	
Hexachlorobenzene	%	86			70-130	Pass	
Methoxychlor	%	87			70-130	Pass	
LCS - % Recovery							
Organophosphorus Pesticides							
Diazinon	%	99			70-130	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Dimethoate	%	79			70-130	Pass	
Ethion	%	96			70-130	Pass	
Fenitrothion	%	84			70-130	Pass	
Methyl parathion	%	97			70-130	Pass	
Mevinphos	%	79			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1016	%	73			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	93			80-120	Pass	
Cadmium	%	100			80-120	Pass	
Chromium	%	107			80-120	Pass	
Copper	%	111			80-120	Pass	
Lead	%	110			80-120	Pass	
Mercury	%	108			80-120	Pass	
Nickel	%	110			80-120	Pass	
Zinc	%	107			80-120	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	94			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	96			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	85			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	83			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	88			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	97			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	83			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	93			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	110			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	112			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	113			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	84			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	91			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	111			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	%	103			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	%	83			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	102			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	99			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	73			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	87			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	86			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	73			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	84			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	85			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	96			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	70			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	94			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	%	100			50-150	Pass	

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Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)			%	107			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)			%	92			50-150	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
Naphthalene	S21-De56972	NCP	%	77			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	N21-De38148	NCP	%	85			70-130	Pass	
Toluene	N21-De38148	NCP	%	86			70-130	Pass	
Ethylbenzene	N21-De38148	NCP	%	81			70-130	Pass	
m&p-Xylenes	N21-De38148	NCP	%	78			70-130	Pass	
o-Xylene	N21-De38148	NCP	%	81			70-130	Pass	
Xylenes - Total*	N21-De38148	NCP	%	79			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S21-De56860	NCP	%	99			70-130	Pass	
Acenaphthylene	S21-De56860	NCP	%	113			70-130	Pass	
Anthracene	S21-De56860	NCP	%	104			70-130	Pass	
Benz(a)anthracene	S21-De47752	NCP	%	75			70-130	Pass	
Benzo(a)pyrene	S21-De56860	NCP	%	98			70-130	Pass	
Benzo(b&j)fluoranthene	S21-De56860	NCP	%	94			70-130	Pass	
Benzo(g.h.i)perylene	S21-De56860	NCP	%	100			70-130	Pass	
Benzo(k)fluoranthene	S21-De56860	NCP	%	111			70-130	Pass	
Chrysene	S21-De56860	NCP	%	75			70-130	Pass	
Dibenz(a.h)anthracene	S21-De56860	NCP	%	103			70-130	Pass	
Fluoranthene	S21-De56860	NCP	%	98			70-130	Pass	
Fluorene	S21-De56860	NCP	%	106			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S21-De56860	NCP	%	106			70-130	Pass	
Naphthalene	S21-De56860	NCP	%	101			70-130	Pass	
Phenanthrene	S21-De56860	NCP	%	94			70-130	Pass	
Pyrene	S21-De56860	NCP	%	98			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S21-De49180	NCP	%	81			70-130	Pass	
4.4'-DDD	S21-De49180	NCP	%	79			70-130	Pass	
4.4'-DDE	S21-De49180	NCP	%	86			70-130	Pass	
4.4'-DDT	S21-De49180	NCP	%	73			70-130	Pass	
a-HCH	S21-De49180	NCP	%	76			70-130	Pass	
Aldrin	S21-De49180	NCP	%	81			70-130	Pass	
b-HCH	S21-De49180	NCP	%	80			70-130	Pass	
d-HCH	S21-De49180	NCP	%	77			70-130	Pass	
Dieldrin	S21-De49180	NCP	%	83			70-130	Pass	
Endosulfan I	S21-De49180	NCP	%	80			70-130	Pass	
Endosulfan II	S21-De49180	NCP	%	73			70-130	Pass	
Endosulfan sulphate	S21-De49180	NCP	%	82			70-130	Pass	
Endrin	S21-De49180	NCP	%	79			70-130	Pass	
Endrin aldehyde	S21-De49180	NCP	%	75			70-130	Pass	
Endrin ketone	S21-De49180	NCP	%	82			70-130	Pass	
g-HCH (Lindane)	S21-De49180	NCP	%	81			70-130	Pass	
Heptachlor	S21-De49180	NCP	%	82			70-130	Pass	
Heptachlor epoxide	S21-De49180	NCP	%	80			70-130	Pass	
Hexachlorobenzene	S21-De49180	NCP	%	80			70-130	Pass	
Methoxychlor	S21-De49180	NCP	%	78			70-130	Pass	

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Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Organophosphorus Pesticides				Result 1					
Diazinon	S21-De49180	NCP	%	87			70-130	Pass	
Dimethoate	S21-De49180	NCP	%	84			70-130	Pass	
Ethion	S21-De49180	NCP	%	91			70-130	Pass	
Fenitrothion	S21-De49180	NCP	%	79			70-130	Pass	
Methyl parathion	S21-De49180	NCP	%	90			70-130	Pass	
Mevinphos	S21-De49180	NCP	%	81			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1016	S21-De49180	NCP	%	74			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S21-De58108	NCP	%	79			75-125	Pass	
Cadmium	S21-De58108	NCP	%	86			75-125	Pass	
Chromium	S21-De58108	NCP	%	92			75-125	Pass	
Copper	S21-De58108	NCP	%	93			75-125	Pass	
Lead	S21-De58108	NCP	%	96			75-125	Pass	
Mercury	S21-De58108	NCP	%	91			75-125	Pass	
Nickel	S21-De58108	NCP	%	93			75-125	Pass	
Zinc	S21-De58108	NCP	%	93			75-125	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	L21-De56360	NCP	%	102			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	L21-De56360	NCP	%	96			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	L21-De56360	NCP	%	87			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	L21-De56360	NCP	%	94			50-150	Pass	
Perfluorooctanoic acid (PFOA)	L21-De56360	NCP	%	89			50-150	Pass	
Perfluorononanoic acid (PFNA)	L21-De56360	NCP	%	94			50-150	Pass	
Perfluorodecanoic acid (PFDA)	L21-De56360	NCP	%	90			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	L21-De56360	NCP	%	94			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	L21-De56360	NCP	%	116			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	L21-De56360	NCP	%	71			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	L21-De56360	NCP	%	122			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	L21-De56360	NCP	%	82			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	L21-De56360	NCP	%	90			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	L21-De56360	NCP	%	119			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	L21-De56360	NCP	%	95			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	L21-De56360	NCP	%	80			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	L21-De56360	NCP	%	104			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	L21-De56360	NCP	%	108			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					

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Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorobutanesulfonic acid (PFBS)	L21-De56360	NCP	%	83			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	L21-De56360	NCP	%	94			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	L21-De56360	NCP	%	120			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	L21-De56360	NCP	%	95			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	L21-De56360	NCP	%	83			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	L21-De56360	NCP	%	81			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	L21-De56360	NCP	%	98			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	L21-De56360	NCP	%	58			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	L21-De56360	NCP	%	85			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	L21-De56360	NCP	%	79			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	L21-De56360	NCP	%	120			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	L21-De56360	NCP	%	86			50-150	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C10-C14	S21-De58037	CP	%	77			70-130	Pass	
TRH >C10-C16	S21-De58037	CP	%	78			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	S21-De52738	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S21-De58036	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S21-De58036	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S21-De58036	CP	mg/kg	< 50	< 50	<1	30%	Pass	
Naphthalene	S21-De52738	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S21-De52738	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S21-De58036	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S21-De58036	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S21-De58036	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S21-De52738	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S21-De52738	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S21-De52738	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S21-De52738	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S21-De52738	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S21-De52738	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	

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Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1-Dichloroethene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1-Trichloroethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2-Trichloroethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichlorobenzene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloroethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloropropane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3-Trichloropropane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trimethylbenzene	S21-De51655	NCP	mg/kg	0.9	1.6	50	30%	Fail	Q15
1.3-Dichlorobenzene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichloropropane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3.5-Trimethylbenzene	S21-De51655	NCP	mg/kg	< 0.5	0.6	63	30%	Fail	Q15
1.4-Dichlorobenzene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Butanone (MEK)	S21-De51655	NCP	mg/kg	0.5	0.7	26	30%	Pass	
2-Propanone (Acetone)	S21-De51655	NCP	mg/kg	2.9	3.3	13	30%	Pass	
4-Chlorotoluene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Allyl chloride	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromobenzene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromochloromethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromodichloromethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromoform	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromomethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon disulfide	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon Tetrachloride	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chlorobenzene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroform	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloromethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.2-Dichloroethene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.3-Dichloropropene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromochloromethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromomethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorodifluoromethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Iodomethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Isopropyl benzene (Cumene)	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Methylene Chloride	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Styrene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Tetrachloroethene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.2-Dichloroethene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.3-Dichloropropene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichloroethene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichlorofluoromethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Vinyl chloride	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S21-De58631	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S21-De58631	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S21-De58631	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S21-De58631	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S21-De58631	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

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Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Benzo(b&j)fluoranthene	S21-De58631	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S21-De58631	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S21-De58631	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S21-De58631	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S21-De58631	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S21-De58631	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S21-De58631	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S21-De58631	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S21-De58631	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S21-De58631	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S21-De58631	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S21-De58631	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S21-De58631	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S21-De58631	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S21-De58631	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	S21-De58631	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S21-De58631	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	S21-De58631	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	S21-De58631	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S21-De58631	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S21-De58631	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S21-De58631	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S21-De58631	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S21-De58631	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S21-De58631	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S21-De58631	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	S21-De58631	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S21-De58631	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S21-De58631	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S21-De58631	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S21-De58631	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toxaphene	S21-De58631	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Azinphos-methyl	S21-De58631	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Bolstar	S21-De58631	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorfenvinphos	S21-De58631	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos	S21-De58631	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos-methyl	S21-De58631	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Coumaphos	S21-De58631	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Demeton-S	S21-De58631	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Demeton-O	S21-De58631	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Diazinon	S21-De58631	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dichlorvos	S21-De58631	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dimethoate	S21-De58631	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Disulfoton	S21-De58631	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
EPN	S21-De58631	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethion	S21-De58631	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethoprop	S21-De58631	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethyl parathion	S21-De58631	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenitrothion	S21-De58631	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fensulfothion	S21-De58631	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	

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Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Fenthion	S21-De58631	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Malathion	S21-De58631	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Merphos	S21-De58631	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Methyl parathion	S21-De58631	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Mevinphos	S21-De58631	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Monocrotophos	S21-De58631	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Naled	S21-De58631	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Omethoate	S21-De58631	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Phorate	S21-De58631	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pirimiphos-methyl	S21-De58631	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pyrazophos	S21-De58631	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ronnel	S21-De58631	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Terbufos	S21-De58631	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tetrachlorvinphos	S21-De58631	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tokuthion	S21-De58631	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Trichloronate	S21-De58631	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	S21-De58631	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1221	S21-De58631	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	S21-De58631	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1242	S21-De58631	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1248	S21-De58631	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1254	S21-De58631	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1260	S21-De58631	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Total PCB*	S21-De58631	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-De58036	CP	%	11	12	8.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-De58038	CP	mg/kg	5.6	8.0	36	30%	Fail	Q15
Cadmium	S21-De58038	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S21-De58038	CP	mg/kg	9.3	12	21	30%	Pass	
Copper	S21-De58038	CP	mg/kg	28	39	32	30%	Fail	Q15
Lead	S21-De58038	CP	mg/kg	14	18	27	30%	Pass	
Mercury	S21-De58038	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S21-De58038	CP	mg/kg	5.3	7.1	29	30%	Pass	
Zinc	S21-De58038	CP	mg/kg	27	37	29	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	S21-De58038	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	S21-De58038	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	S21-De58038	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	S21-De58038	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	S21-De58038	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	S21-De58038	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	S21-De58038	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	S21-De58038	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	S21-De58038	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	S21-De58038	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	S21-De58038	CP	ug/kg	< 5	< 5	<1	30%	Pass	

Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	S21-De58038	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S21-De58038	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S21-De58038	CP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	S21-De58038	CP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	S21-De58038	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S21-De58038	CP	ug/kg	< 10	< 10	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S21-De58038	CP	ug/kg	< 10	< 10	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	S21-De58038	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	S21-De58038	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	S21-De58038	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	S21-De58038	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	S21-De58038	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S21-De58038	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	S21-De58038	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	S21-De58038	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S21-De58038	CP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	S21-De58038	CP	ug/kg	< 10	< 10	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S21-De58038	CP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S21-De58038	CP	ug/kg	< 5	< 5	<1	30%	Pass	

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Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised by:

Ursula Long	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
John Nguyen	Senior Analyst-Metal (NSW)
Roopesh Rangarajan	Senior Analyst-Volatile (NSW)
Sarah McCallion	Senior Analyst-PFAS (QLD)



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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CHAIN OF CUSTODY

ALS Laboratory: please tick →

☐ Sydney: 277 Woodpark Rd Smithfield NSW 2164 Ph: 02 8784 8555 E: samples.sydney@alsenviro.com

☐ Brisbane: 32 Shand St Stafford QLD 4053 Ph: 07 3243 7222 E: samples.brisbane@alsenviro.com

☐ Melbourne: 2-4 Westall Rd Springvale VIC 3171 Ph: 03 8549 9600 E: samples.melbourne@alsenviro.com

CLIENT:	ERM	TURNAROUND REQUIREMENTS :	☐ Standard TAT (List due date):
OFFICE:	Sydney	(Standard TAT may be longer for some tests e.g., Ultra Trace Organics)	☐ Non Standard or urgent TAT (List due date):
PROJECT:	0577577 - Burwood	ALS QUOTE NO.:	
ORDER NUMBER:		COC SEQUENCE NUMBER (Circle) COC: 1 2 3 4 5 6 7 OF: 1 2 3 4 5 6 7	
PROJECT MANAGER:	Jessica Lawrence	CONTACT PH: 0404935554	
SAMPLER:	Tristan Rodrigues	SAMPLER MOBILE: 0417187687	
COC emailed to ALS? YES		EDD FORMAT (or default):	
Email Reports to: jessica.lawrence@erm.com, tristan.rodrigues@erm.com			
Email Invoice to: jessica.lawrence@erm.com			

FOR LABORATORY USE ONLY (Circle)

Custody Seal Intact? Yes No N/A

Free ice / Frozen ice bricks present upon receipt? Yes No N/A

Random Sample Temperature on Receipt: °C

Other comment: 1.3

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Tristan Rodrigues			
DATE/TIME: 22/12/21	DATE/TIME: 22/12/21 16:10	DATE/TIME:	DATE/TIME:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE ONLY	SAMPLE DETAILS MATRIX: Solid(S) Water(W)			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required).							Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PREservative (refer to codes below)	TOTAL BOTTLES	PFAS (28 analytes) LOR= 5ug/kg	S16	Asbestos	VOC			HOLD	Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc. Please use the lower hexavalent chromium LOR.
1	BUR_BH109 - 0.2	20/12/21	Soil			X	X	X	X				
2	- 0.5						X						
3	- 1.0						X		X			X	
4	- 3.0					X	X						
5	BUR_BH111 - 0.2					X	X		X				
6	- 0.5					X	X						
7	DOS - 20211220					X	X						
—	TOS - 20211220					X	X						Please Send to ALS
8	- 2.0						X		X				
9	- 5.0					X	X						
10	BUR_BH110 - 0.2					X	X		X				
11	- 0.5						X						
12	- 1.0						X		X				
13	- 5.0					X	X						

Attached By PO / Internal Sheet: ____ WO No.: ____ Courier: ____ Organised By / Date: ____ Relinquished By / Date: ____ Lab / Analysis: ____ Subcon / Forward Lab / Split WO ____

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide/Cd Preserved; S = Sodium Hydroxide Preserved Plastic; AG = Amber Glass Unpreserved; AP = Airfreight Unpreserved Plastic; V = VOA Vial HCl Preserved; VB = VOA Vial Sodium Bisulphate Preserved; VS = VOA Vial Sulfuric Preserved; AV = Airfreight Unpreserved Vial SG = Sulfuric Preserved Amber Glass; H = HCl preserved Plastic; HS = HCl preserved Speciation bottle; SP = Sulfuric Preserved Plastic; F = For Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; ASS = Plastic Bag for Acid Sulphate Soils; B = Unpreserved Bag.

A.S Alecco 28/12/21 3:44 PM 853323

Environmental Division Sydney

Work Order Reference

ES2146990

Telephone : +61-2-8784 8555

DRAFT

CHAIN OF CUSTODY

ALS Laboratory: please tick →

☐ Sydney: 277 Woodpark Rd, Smithfield NSW 2164 Ph: 02 8784 8555 E: samples.sydney@alsenviro.com

☐ Brisbane: 32 Shand St, Stafford QLD 4053 Ph: 07 3243 7222 E: samples.brisbane@alsenviro.com

☐ Melbourne: 2-4 Westall Rd, Springvale VIC 3171 Ph: 03 8549 9600 E: samples.melbourne@alsenviro.com

☐ Newcastle: 5 Rosegum Rd, Warabrook NSW 2304 Ph: 02 4968 9433 E: samples.newcastle@alsenviro.com

☐ Townsville: 14-15 Desma Ct, Garbutt QLD 4814 Ph: 07 4796 0600 E: samples.townsville@alsenviro.com

☐ Adelaide: 2-1 Burma Rd, Pooraka SA 5095 Ph: 08 8359 0890 E: adelaide@alsenviro.com

CLIENT:	ERM	TURNAROUND REQUIREMENTS: (Standard TAT may be longer for some tests e.g., Ultra Trace Organics)	☐ Standard TAT (List due date): ☐ Non Standard or urgent TAT (List due date):
OFFICE:	Sydney		
PROJECT:	0577577 - Burwood	ALS QUOTE NO.:	
ORDER NUMBER:		COC SEQUENCE NUMBER (Circle) COC: 1 2 3 4 5 6 7 OF: 1 2 3 4 5 6 7	
PROJECT MANAGER:	Jessica Lawrence	CONTACT PH: 0404935554	
SAMPLER:	Tristan Rodrigues	SAMPLER MOBILE: 0417187687	
COC emailed to ALS? YES		EDD FORMAT (or default):	
Email Reports to: jessica.lawrence@erm.com, tristan.rodrigues@erm.com			
Email Invoice to: jessica.lawrence@erm.com			

FOR LABORATORY USE ONLY (Circle)

Custody seal intact?	Yes	No	N/A
Free ice / frozen ice bricks present upon receipt?	Yes	No	N/A
Random Sample Temperature on Receipt:	°C		
Other comment:	-3		

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Tristan Rodrigues	SEQ/H/MG		
DATE/TIME: 22/12/21	DATE/TIME: 22/12/21 1410	DATE/TIME:	DATE/TIME:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE ONLY	SAMPLE DETAILS MATRIX: Solid(S) Water(W)			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required).								Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL BOTTLES	PFAS (28 analytes) LOR= 5ug/kg	S16	Asbestos	VOC	8 Metals	BTEXN	TRH	HOLD	Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc. Please use the lower hexavalent chromium LOR.
14	BUR_BH113_0.2	20/12/21	Soil			X	X	X	X					
15	_1.0						X							
16	_2.0						X		X					
17	_5.0					X	X							
18	DOG_20211220						X		X					
—	TOG_20211220						X		X					Please Send to Eurofins
19	BUR_BH114_0.2					X	X	X						
20	_0.5						X		X					
21	_5.0						X							
22	_10.0						X		X					
23	_15.0					X	X							
24	ROW_20211220	20/12/21	Water			X				X	X	X		
25	ROS_20211221	21/12/21	Water			X				X	X	X		
26	TS/TB 53		Soil								X	X		

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide/Cd Preserved; S = Sodium Hydroxide Preserved Plastic; AG = Amber Glass Unpreserved; AP = Airfreight Unpreserved Plastic; V = VOA Vial HCl Preserved; VB = VOA Vial Sodium Bisulphate Preserved; VS = VOA Vial Sulfuric Preserved; AV = Airfreight Unpreserved Vial SG = Sulfuric Preserved Amber Glass; H = HCl preserved Plastic; HS = HCl preserved Speciation bottle; SP = Sulfuric Preserved Plastic; F = Formaldehyde Preserved Glass; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; ASS = Plastic Bag for Acid Sulphate Soils; B = Unpreserved Bag

AS Abeggo 23.12.21 3:44 pm 853323

DRAFT

CHAIN OF CUSTODY

ALS Laboratory: please tick →

Melbourne: 2-4 Westall Rd Springvale VIC 3171 Ph:03 8549 9600 E: samples.melbourne@alsenviro.com

CLIENT:	ERM	TURNAROUND REQUIREMENTS: (Standard TAT may be longer for some tests e.g. Ultra Trace Organics)	☐ Standard TAT (List due date): ☐ Non Standard or urgent TAT (List due date):
OFFICE:	Sydney		
PROJECT:	0577577 - Burwood	ALS QUOTE NO.:	
ORDER NUMBER:			
PROJECT MANAGER:	Jessica Lawrence	CONTACT PH: 0404935554	
SAMPLER:	Tristan Rodrigues	SAMPLER MOBILE: 0417187687	
COC emailed to ALS? YES		EDD FORMAT (or default):	
Email Reports to: jessica.lawrence@erm.com, tristan.rodrigues@erm.com			
Email Invoice to: jessica.lawrence@erm.com			

COC SEQUENCE NUMBER (Circle)

COC: 1 2 3 4 5 6 7

OF: 1 2 3 4 5 6 7

FOR LABORATORY USE ONLY (Circle)

Custody Seal Intact? Yes No N/A

Free ice / frozen ice bricks present upon receipt? Yes No N/A

Random Sample Temperature on Receipt: -1.3 °C

Other comment:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Tristan Rodrigues	SC AJ		
DATE/TIME: 22/12/21	DATE/TIME: 22/12/21 14:10	DATE/TIME:	DATE/TIME:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE ONLY	SAMPLE DETAILS MATRIX: Solid(S) Water(W)			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required).								Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL BOTTLES	PFAS (28 analytes) LOR= 5ug/kg	S16	Asbestos	VOC				HOLD	Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc. Please use the lower hexavalent chromium LOR.
27	BUR_BH115_0.2	21/12/21	Soil			X	X	X	X					
28	-0.5						X							
29	-1.0						X		X					
30	-5.0						X							
31	-10.0						X		X					
32	-15.0					X	X							
33	BUR_BH117_0.2					X	X	X	X					
34	-1.0						X							
35	-3.0					X	X							
36	QDS_20211221					X	X	X	X					
-	TDS_20211221					X	X	X	X					Please Send to Frontier
37	BUR_BH125_0.2					X	X	X						
38	-1.0						X		X					
39	-5.0					X	X							

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V = VOA Vial HCl Preserved; VB = VOA Vial Sodium Bisulphate Preserved; VS = VOA Vial Sulfuric Preserved; AV = Airfreight Unpreserved Vial SG = Sulfuric Preserved Amber Glass; H = HCl preserved Plastic; HS = HCl preserved Speciation bottle; SP = Sulfuric Preserved Plastic; F = Formaldehyde Preserved Glass;
Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; ASS = Plastic Bag for Acid Sulphate Soils; B = Unpreserved Bag.

A.S Alcorso 23/12/21 3:44 PM 853323

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CHAIN OF CUSTODY

ALS Laboratory: please tick →

Melbourne: 2-4 Westall Rd, Springvale VIC 3171 Ph: 03 8549 9600 E: samples.melbourne@alsenviro.com

Townsville: 14-15 Desma Ct, Bohle QLD 4818 Ph: 07 4796 0600 E: townsville.environmental@alsenviro.com

CLIENT:	ERM	TURNAROUND REQUIREMENTS: (Standard TAT may be longer for some tests e.g., Ultra Trace Organics)	☐ Standard TAT (List due date): ☐ Non Standard or urgent TAT (List due date):
OFFICE:	Sydney		
PROJECT:	0577577 - Burwood	ALS QUOTE NO.:	
ORDER NUMBER:		COC SEQUENCE NUMBER (Circle) COC: 1 2 3 4 5 6 7 OF: 1 2 3 4 5 6 7	FOR LABORATORY USE ONLY (Circle) Custody Seal Intact? Yes No N/A; Free ice / frozen ice bricks present upon receipt? Yes No N/A; Random Sample Temperature on Receipt: °C; Other comment: 1.3
PROJECT MANAGER:	Jessica Lawrence	CONTACT PH: 0404935554	
SAMPLER:	Tristan Rodrigues	SAMPLER MOBILE: 0417187687	
COC emailed to ALS?	YES	EDD FORMAT (or default):	
Email Reports to:	jessica.lawrence@erm.com, tristan.rodrigues@erm.com		
Email Invoice to:	jessica.lawrence@erm.com		

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Tristan Rodrigues	Scott/Alex		
DATE/TIME: 22/12/21	DATE/TIME: 22/12/21 1410	DATE/TIME:	DATE/TIME:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE ONLY	SAMPLE DETAILS (MATRIX: Solid(S) Water(W))			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required)								Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL BOTTLES	PFAS (28 analytes) LOR= 5ug/kg	S16	Asbestos	VOC				HOLD	Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc. Please use the lower hexavalent chromium LOR.
40	BUR_BH101_0.1	21/12/21	Soil			✓	✓	✓	✓					
41	-0.5													
42	-2.0								✓					
43	BUR_BH112_0.2					✓	✓	✓						
44	-0.5						✓		✓					
45	-2.0													
46	-5.0					✓	✓		✓					
47	BUR_BH116_0.2					✓	✓							
48	DUP_20211221					✓	✓							
~~49~~	TRIP_20211221					✓	✓							Please Send to Eurofins
49	BUR_BH116_0.5						✓		✓					
50	-3.0					✓	✓							
51	BUR_BH116_0.1 ACM		Fray					✓						
52	BUR_BH115_0.2		Soil			✓	✓	✓	✓					
54	TSC													

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide/Cd Preserved; S = Sodium Hydroxide Preserved Plastic; AG = Amber Glass Unpreserved; AP - Airfreight Unpreserved Plastic; V = VOA Vial HCl Preserved; VB = VOA Vial Sodium Bisulphate Preserved; VS = VOA Vial Sulfuric Preserved; AV = Airfreight Unpreserved Vial SG = Sulfuric Preserved Amber Glass; H = HCl preserved Plastic; HS = HCl preserved Speciation bottle; SP = Sulfuric Preserved Plastic; F = Formaldehyde Preserved Glass; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; ASS = Plastic Bag for Acid Sulphate Soils; B = Unpreserved Bag.

A.S Alexose 28,12,21 3:44pm 853323

DRAFT

eurofins | Environment Testing

www.eurofins.com.au EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

Sample Receipt Advice

Company name:	ERM Sydney
Contact name:	Jessica Lawrence
Project name:	0577577-BURWOOD
Project ID:	577577
Turnaround time:	5 Day
Date/Time received	Dec 23, 2021 3:44 PM
Eurofins reference	853323

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✗	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
✗	Split sample sent to requested external lab.
✗	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

There is only one container provided for sample T08-20211221. As there is no Jar container and subsampling is not possible from The plastic container, tests: Suite 7, suit 15, ASB and VOC were cancelled for this sample. However, there is an extra Jar container for sample T07-20211221. Please advise on these.

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

John Nguyen on phone : or by email: JohnNguyen@eurofins.com

Results will be delivered electronically via email to Jessica Lawrence - jessica.lawrence@erm.com.

Note: A copy of these results will also be delivered to the general ERM Sydney email address.

DRAFT

eurofins | Environment Testing

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
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Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

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4/52 Industrial Drive
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PO Box 60 Wickham 2293
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46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

Company Name: ERM Sydney
Address: Level 15, 309 Kent St
Sydney
NSW 2000

Project Name: 0577577-BURWOOD
Project ID: 577577

Order No.:
Report #: 853323
Phone: 02 8584 8888
Fax: 02 8584 8800

Received: Dec 23, 2021 3:44 PM
Due: Jan 3, 2022
Priority: 5 Day
Contact Name: Jessica Lawrence

Eurofins Analytical Services Manager : John Nguyen

Sample Detail						Eurofins Suite B15	Volatile Organics	Moisture Set	Moisture Set	Eurofins Suite B7	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254											
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794								X	X		X
Mayfield Laboratory - NATA # 1261 Site # 25079											
Perth Laboratory - NATA # 2377 Site # 2370											
External Laboratory											
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**						
1	T05-20211220	Dec 20, 2021		Soil	S21-De59539	X			X	X	X
2	T06-20211220	Dec 20, 2021		Soil	S21-De59540	X	X		X	X	
3	T08-20211221	Dec 21, 2021		Soil	S21-De59541			X			X
4	T07-20211221	Dec 21, 2021		Soil	S21-De59542	X			X	X	X
Test Counts						3	1	4	4	3	3

DRAFT

ERM Sydney
Level 15, 309 Kent St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: **Jessica Lawrence**

Report ***853323-S***
Project name 0577577-BURWOOD
Project ID 577577
Received Date Dec 23, 2021

Client Sample ID			**T05-20211220**	**T06-20211220**	**T08-20211221**	[G01] **T07-20211221**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**S21-De59539**	**S21-De59540**	**S21-De59541**	**S21-De59542**
Date Sampled			**Dec 20, 2021**	**Dec 20, 2021**	**Dec 21, 2021**	**Dec 21, 2021**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	-	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	-	< 20
TRH C15-C28	50	mg/kg	120	< 50	-	160
TRH C29-C36	50	mg/kg	< 50	< 50	-	82
TRH C10-C36 (Total)	50	mg/kg	120	< 50	-	242
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	-	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	-	< 50
TRH >C16-C34	100	mg/kg	260	< 100	-	410
TRH >C34-C40	100	mg/kg	< 100	< 100	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	260	< 100	-	410
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	82	101	-	94
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	1.2	< 0.5	-	0.8
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	1.4	0.6	-	1.1
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.7	1.2	-	1.4
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	0.8	< 0.5	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	0.9	< 0.5	-	0.7
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	0.6	< 0.5	-	0.6
Benzo(g.h.i)perylene	0.5	mg/kg	0.5	< 0.5	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	0.9	< 0.5	-	0.6
Chrysene	0.5	mg/kg	0.7	< 0.5	-	0.7
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5

DRAFT

Client Sample ID			T05-20211220	T06-20211220	T08-20211221	G01 T07-20211221
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-De59539	S21-De59540	S21-De59541	S21-De59542
Date Sampled			Dec 20, 2021	Dec 20, 2021	Dec 21, 2021	Dec 21, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Fluoranthene	0.5	mg/kg	1.4	< 0.5	-	0.7
Fluorene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	0.5	< 0.5	-	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Phenanthrene	0.5	mg/kg	0.7	< 0.5	-	< 0.5
Pyrene	0.5	mg/kg	1.5	< 0.5	-	0.8
Total PAH*	0.5	mg/kg	8.5	< 0.5	-	4.1
2-Fluorobiphenyl (surr.)	1	%	73	88	-	85
p-Terphenyl-d14 (surr.)	1	%	81	102	-	85
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	-	< 1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	-	< 0.5
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	-	< 0.5
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	-	< 0.5
a-HCH	0.05	mg/kg	< 0.05	< 0.05	-	< 0.5
Aldrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.5
b-HCH	0.05	mg/kg	< 0.05	< 0.05	-	< 0.5
d-HCH	0.05	mg/kg	< 0.05	< 0.05	-	< 0.5
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.5
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	-	< 0.5
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	-	< 0.5
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	-	< 0.5
Endrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.5
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	-	< 0.5
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	-	< 0.5
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	-	< 0.5
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	-	< 0.5
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	-	< 0.5
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	-	< 0.5
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	-	< 0.5
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	-	< 10
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	< 0.5
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	< 0.5
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	< 1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	< 1
Dibutylchlorendate (surr.)	1	%	96	105	-	74
Tetrachloro-m-xylene (surr.)	1	%	79	95	-	92
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Bolstar	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Chlorfenvinphos	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Chlorpyrifos	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Coumaphos	2	mg/kg	< 2	< 2	-	< 5
Demeton-S	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Demeton-O	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Diazinon	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Dichlorvos	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Dimethoate	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5

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Client Sample ID			T05-20211220	T06-20211220	T08-20211221	G01 T07-20211221
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-De59539	S21-De59540	S21-De59541	S21-De59542
Date Sampled			Dec 20, 2021	Dec 20, 2021	Dec 21, 2021	Dec 21, 2021
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Disulfoton	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
EPN	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Ethion	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Ethoprop	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Ethyl parathion	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Fenitrothion	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Fensulfothion	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Fenthion	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Malathion	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Merphos	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Methyl parathion	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Mevinphos	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Monocrotophos	2	mg/kg	< 2	< 2	-	< 5
Naled	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Omethoate	2	mg/kg	< 2	< 2	-	< 5
Phorate	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Pirimiphos-methyl	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Pyrazophos	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Ronnel	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Terbufos	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Tetrachlorvinphos	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Tokuthion	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Trichloronate	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Triphenylphosphate (surr.)	1	%	113	130	-	68
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	-	< 1
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	-	< 1
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	-	< 1
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	-	< 1
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	-	< 1
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	-	< 1
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	-	< 1
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	-	< 1
Dibutylchlorendate (surr.)	1	%	96	105	-	74
Tetrachloro-m-xylene (surr.)	1	%	79	95	-	92
Heavy Metals						
Arsenic	2	mg/kg	8.8	11	-	11
Cadmium	0.4	mg/kg	< 0.4	< 0.4	-	3.7
Chromium	5	mg/kg	25	12	-	27
Copper	5	mg/kg	220	37	-	120
Lead	5	mg/kg	290	21	-	990
Mercury	0.1	mg/kg	0.1	< 0.1	-	0.4
Nickel	5	mg/kg	16	8.3	-	43
Zinc	5	mg/kg	170	44	-	990
% Moisture	1	%	26	8.5	20	15

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Client Sample ID			T05-20211220	T06-20211220	T08-20211221	G01 T07-20211221
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-De59539	S21-De59540	S21-De59541	S21-De59542
Date Sampled			Dec 20, 2021	Dec 20, 2021	Dec 21, 2021	Dec 21, 2021
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	< 5	-	< 5	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	< 5	-	< 5	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	< 5	-	< 5	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	< 5	-	< 5	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	-	< 5	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	< 5	-	< 5	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	< 5	-	< 5	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	< 5	-	< 5	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	< 5	-	< 5	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	< 5	-	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5	-	< 5	< 5
13C4-PFBA (surr.)	1	%	103	-	106	96
13C5-PFPeA (surr.)	1	%	112	-	110	99
13C5-PFHxA (surr.)	1	%	109	-	118	113
13C4-PFHpA (surr.)	1	%	118	-	127	112
13C8-PFOA (surr.)	1	%	106	-	113	110
13C5-PFNA (surr.)	1	%	111	-	117	110
13C6-PFDA (surr.)	1	%	116	-	119	114
13C2-PFUnDA (surr.)	1	%	135	-	142	130
13C2-PFDoDA (surr.)	1	%	132	-	122	117
13C2-PFTeDA (surr.)	1	%	112	-	100	91
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5	-	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5	-	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5	-	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)[N11]	5	ug/kg	< 5	-	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)[N11]	5	ug/kg	< 5	-	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10	-	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10	-	< 10	< 10
13C8-FOSA (surr.)	1	%	120	-	127	125
D3-N-MeFOSA (surr.)	1	%	106	-	105	102
D5-N-EtFOSA (surr.)	1	%	66	-	68	65
D7-N-MeFOSE (surr.)	1	%	102	-	112	103
D9-N-EtFOSE (surr.)	1	%	94	-	96	97
D5-N-EtFOSAA (surr.)	1	%	110	-	117	111
D3-N-MeFOSAA (surr.)	1	%	128	-	148	136
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5	-	< 5	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5	-	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5	-	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5	-	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	-	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5	-	< 5	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	-	< 5	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5	-	< 5	< 5

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Client Sample ID			T05-20211220	T06-20211220	T08-20211221	G01 T07-20211221
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-De59539	S21-De59540	S21-De59541	S21-De59542
Date Sampled			Dec 20, 2021	Dec 20, 2021	Dec 21, 2021	Dec 21, 2021
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSAs)						
13C3-PFBS (surr.)	1	%	104	-	103	94
18O2-PFHxS (surr.)	1	%	117	-	115	108
13C8-PFOS (surr.)	1	%	114	-	117	112
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5	-	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)[N11]	10	ug/kg	< 10	-	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5	-	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5	-	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	122	-	123	88
13C2-6:2 FTSA (surr.)	1	%	134	-	150	118
13C2-8:2 FTSA (surr.)	1	%	125	-	147	139
13C2-10:2 FTSA (surr.)	1	%	101	-	101	83
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	-	< 5	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	-	< 5	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	-	< 5	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	-	< 10	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50	-	< 50	< 50
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
1.1.1-Trichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.2-Trichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dibromoethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
1.2-Dichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.2.3-Trichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	-
1.3-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
1.3-Dichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	-
1.4-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
2-Butanone (MEK)	0.5	mg/kg	-	< 0.5	-	-
2-Propanone (Acetone)	0.5	mg/kg	-	< 0.5	-	-
4-Chlorotoluene	0.5	mg/kg	-	< 0.5	-	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	< 0.5	-	-
Allyl chloride	0.5	mg/kg	-	< 0.5	-	-
Benzene	0.1	mg/kg	-	< 0.1	-	-
Bromobenzene	0.5	mg/kg	-	< 0.5	-	-
Bromochloromethane	0.5	mg/kg	-	< 0.5	-	-
Bromodichloromethane	0.5	mg/kg	-	< 0.5	-	-
Bromoform	0.5	mg/kg	-	< 0.5	-	-
Bromomethane	0.5	mg/kg	-	< 0.5	-	-

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Client Sample ID			T05-20211220	T06-20211220	T08-20211221	G01 T07-20211221
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-De59539	S21-De59540	S21-De59541	S21-De59542
Date Sampled			Dec 20, 2021	Dec 20, 2021	Dec 21, 2021	Dec 21, 2021
Test/Reference	LOR	Unit				
Volatile Organics						
Carbon disulfide	0.5	mg/kg	-	< 0.5	-	-
Carbon Tetrachloride	0.5	mg/kg	-	< 0.5	-	-
Chlorobenzene	0.5	mg/kg	-	< 0.5	-	-
Chloroethane	0.5	mg/kg	-	< 0.5	-	-
Chloroform	0.5	mg/kg	-	< 0.5	-	-
Chloromethane	0.5	mg/kg	-	< 0.5	-	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
cis-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	-
Dibromochloromethane	0.5	mg/kg	-	< 0.5	-	-
Dibromomethane	0.5	mg/kg	-	< 0.5	-	-
Dichlorodifluoromethane	0.5	mg/kg	-	< 0.5	-	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	-
Iodomethane	0.5	mg/kg	-	< 0.5	-	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	< 0.5	-	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	-
Methylene Chloride	0.5	mg/kg	-	< 0.5	-	-
o-Xylene	0.1	mg/kg	-	< 0.1	-	-
Styrene	0.5	mg/kg	-	< 0.5	-	-
Tetrachloroethene	0.5	mg/kg	-	< 0.5	-	-
Toluene	0.1	mg/kg	-	< 0.1	-	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	-
Trichloroethene	0.5	mg/kg	-	< 0.5	-	-
Trichlorofluoromethane	0.5	mg/kg	-	< 0.5	-	-
Vinyl chloride	0.5	mg/kg	-	< 0.5	-	-
Xylenes - Total*	0.3	mg/kg	-	< 0.3	-	-
Total MAH*	0.5	mg/kg	-	< 0.5	-	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	< 0.5	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	< 0.5	-	-
4-Bromofluorobenzene (surr.)	1	%	-	101	-	-
Toluene-d8 (surr.)	1	%	-	113	-	-

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Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Dec 30, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Dec 30, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Dec 30, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Dec 30, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons	Sydney	Dec 30, 2021	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Metals M8	Sydney	Dec 30, 2021	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Eurofins Suite B15			
Organochlorine Pesticides	Sydney	Dec 30, 2021	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Organophosphorus Pesticides	Sydney	Dec 30, 2021	14 Days
- Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS			
Polychlorinated Biphenyls	Sydney	Dec 30, 2021	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
% Moisture	Sydney	Dec 29, 2021	14 Days
- Method: LTM-GEN-7080 Moisture			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Brisbane	Jan 05, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Brisbane	Jan 05, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Brisbane	Jan 05, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Brisbane	Jan 05, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Volatile Organics	Sydney	Dec 30, 2021	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices			

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

Company Name: ERM Sydney
Address: Level 15, 309 Kent St
Sydney
NSW 2000

Project Name: 0577577-BURWOOD
Project ID: 577577

Order No.:
Report #: 853323
Phone: 02 8584 8888
Fax: 02 8584 8800

Received: Dec 23, 2021 3:44 PM
Due: Jan 3, 2022
Priority: 5 Day
Contact Name: Jessica Lawrence

Eurofins Analytical Services Manager : John Nguyen

Sample Detail						Eurofins Suite B15	Volatile Organics	Moisture Set	Moisture Set	Eurofins Suite B7	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254											
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794								X	X		X
Mayfield Laboratory - NATA # 1261 Site # 25079											
Perth Laboratory - NATA # 2377 Site # 2370											
External Laboratory											
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**						
1	T05-20211220	Dec 20, 2021		Soil	S21-De59539	X			X	X	X
2	T06-20211220	Dec 20, 2021		Soil	S21-De59540	X	X		X	X	
3	T08-20211221	Dec 21, 2021		Soil	S21-De59541			X			X
4	T07-20211221	Dec 21, 2021		Soil	S21-De59542	X			X	X	X
Test Counts						3	1	4	4	3	3

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Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/kg: milligrams per kilogram	**mg/L:** milligrams per litre	**µg/L:** micrograms per litre
ppm: parts per million	**ppb:** parts per billion	**%:** Percentage
org/100mL: Organisms per 100 millilitres	**NTU:** Nephelometric Turbidity Units	**MPN/100mL:** Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.4
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

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QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

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Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-HCH	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-HCH	mg/kg	< 0.05			0.05	Pass	
d-HCH	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-HCH (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.05			0.05	Pass	
Toxaphene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organophosphorus Pesticides							
Azinphos-methyl	mg/kg	< 0.2			0.2	Pass	
Bolstar	mg/kg	< 0.2			0.2	Pass	
Chlorfenvinphos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos-methyl	mg/kg	< 0.2			0.2	Pass	
Coumaphos	mg/kg	< 2			2	Pass	
Demeton-S	mg/kg	< 0.2			0.2	Pass	
Demeton-O	mg/kg	< 0.2			0.2	Pass	
Diazinon	mg/kg	< 0.2			0.2	Pass	
Dichlorvos	mg/kg	< 0.2			0.2	Pass	
Dimethoate	mg/kg	< 0.2			0.2	Pass	
Disulfoton	mg/kg	< 0.2			0.2	Pass	
EPN	mg/kg	< 0.2			0.2	Pass	
Ethion	mg/kg	< 0.2			0.2	Pass	
Ethoprop	mg/kg	< 0.2			0.2	Pass	
Ethyl parathion	mg/kg	< 0.2			0.2	Pass	
Fenitrothion	mg/kg	< 0.2			0.2	Pass	
Fensulfothion	mg/kg	< 0.2			0.2	Pass	
Fenthion	mg/kg	< 0.2			0.2	Pass	
Malathion	mg/kg	< 0.2			0.2	Pass	
Merphos	mg/kg	< 0.2			0.2	Pass	
Methyl parathion	mg/kg	< 0.2			0.2	Pass	
Mevinphos	mg/kg	< 0.2			0.2	Pass	
Monocrotophos	mg/kg	< 2			2	Pass	
Naled	mg/kg	< 0.2			0.2	Pass	
Omethoate	mg/kg	< 2			2	Pass	
Phorate	mg/kg	< 0.2			0.2	Pass	
Pirimiphos-methyl	mg/kg	< 0.2			0.2	Pass	
Pyrazophos	mg/kg	< 0.2			0.2	Pass	
Ronnel	mg/kg	< 0.2			0.2	Pass	
Terbufos	mg/kg	< 0.2			0.2	Pass	
Tetrachlorvinphos	mg/kg	< 0.2			0.2	Pass	
Tokuthion	mg/kg	< 0.2			0.2	Pass	
Trichloronate	mg/kg	< 0.2			0.2	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.1			0.1	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	Pass	
Aroclor-1232	mg/kg	< 0.1			0.1	Pass	
Aroclor-1242	mg/kg	< 0.1			0.1	Pass	
Aroclor-1248	mg/kg	< 0.1			0.1	Pass	
Aroclor-1254	mg/kg	< 0.1			0.1	Pass	
Aroclor-1260	mg/kg	< 0.1			0.1	Pass	
Total PCB*	mg/kg	< 0.1			0.1	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/kg	< 5			5	Pass	
Perfluoropentanoic acid (PFPeA)	ug/kg	< 5			5	Pass	
Perfluorohexanoic acid (PFHxA)	ug/kg	< 5			5	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/kg	< 5			5	Pass	
Perfluorooctanoic acid (PFOA)	ug/kg	< 5			5	Pass	
Perfluorononanoic acid (PFNA)	ug/kg	< 5			5	Pass	
Perfluorodecanoic acid (PFDA)	ug/kg	< 5			5	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/kg	< 5			5	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/kg	< 5			5	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/kg	< 5			5	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/kg	< 5			5	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/kg	< 5			5	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/kg	< 5			5	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/kg	< 5			5	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	ug/kg	< 5			5	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	ug/kg	< 5			5	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	< 10			10	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	< 10			10	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	ug/kg	< 5			5	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/kg	< 5			5	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/kg	< 5			5	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/kg	< 5			5	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	< 5			5	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/kg	< 5			5	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/kg	< 5			5	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/kg	< 5			5	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	ug/kg	< 10			10	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/kg	< 5			5	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
1.1.1-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.1.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
1.1.2-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dibromoethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.3-Trichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.4-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.3.5-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
2-Butanone (MEK)	mg/kg	< 0.5			0.5	Pass	
2-Propanone (Acetone)	mg/kg	< 0.5			0.5	Pass	
4-Chlorotoluene	mg/kg	< 0.5			0.5	Pass	
4-Methyl-2-pentanone (MIBK)	mg/kg	< 0.5			0.5	Pass	
Allyl chloride	mg/kg	< 0.5			0.5	Pass	
Bromobenzene	mg/kg	< 0.5			0.5	Pass	
Bromochloromethane	mg/kg	< 0.5			0.5	Pass	
Bromodichloromethane	mg/kg	< 0.5			0.5	Pass	
Bromoform	mg/kg	< 0.5			0.5	Pass	
Bromomethane	mg/kg	< 0.5			0.5	Pass	
Carbon disulfide	mg/kg	< 0.5			0.5	Pass	
Carbon Tetrachloride	mg/kg	< 0.5			0.5	Pass	
Chlorobenzene	mg/kg	< 0.5			0.5	Pass	
Chloroethane	mg/kg	< 0.5			0.5	Pass	
Chloroform	mg/kg	< 0.5			0.5	Pass	
Chloromethane	mg/kg	< 0.5			0.5	Pass	
cis-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
cis-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Dibromochloromethane	mg/kg	< 0.5			0.5	Pass	
Dibromomethane	mg/kg	< 0.5			0.5	Pass	
Dichlorodifluoromethane	mg/kg	< 0.5			0.5	Pass	
Iodomethane	mg/kg	< 0.5			0.5	Pass	
Isopropyl benzene (Cumene)	mg/kg	< 0.5			0.5	Pass	
Methylene Chloride	mg/kg	< 0.5			0.5	Pass	
Styrene	mg/kg	< 0.5			0.5	Pass	
Tetrachloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Trichloroethene	mg/kg	< 0.5			0.5	Pass	
Trichlorofluoromethane	mg/kg	< 0.5			0.5	Pass	
Vinyl chloride	mg/kg	< 0.5			0.5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	74			70-130	Pass	
TRH C10-C14	%	112			70-130	Pass	
Naphthalene	%	88			70-130	Pass	
TRH C6-C10	%	70			70-130	Pass	
TRH >C10-C16	%	114			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	109			70-130	Pass	
Toluene	%	99			70-130	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Ethylbenzene	%	89			70-130	Pass	
m&p-Xylenes	%	103			70-130	Pass	
o-Xylene	%	101			70-130	Pass	
Xylenes - Total*	%	102			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	82			70-130	Pass	
Acenaphthylene	%	87			70-130	Pass	
Anthracene	%	76			70-130	Pass	
Benz(a)anthracene	%	81			70-130	Pass	
Benzo(a)pyrene	%	88			70-130	Pass	
Benzo(b&j)fluoranthene	%	90			70-130	Pass	
Benzo(g.h.i)perylene	%	73			70-130	Pass	
Benzo(k)fluoranthene	%	81			70-130	Pass	
Chrysene	%	78			70-130	Pass	
Dibenz(a.h)anthracene	%	86			70-130	Pass	
Fluoranthene	%	83			70-130	Pass	
Fluorene	%	86			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	75			70-130	Pass	
Naphthalene	%	88			70-130	Pass	
Phenanthrene	%	92			70-130	Pass	
Pyrene	%	83			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	74			70-130	Pass	
4.4'-DDD	%	73			70-130	Pass	
4.4'-DDE	%	73			70-130	Pass	
4.4'-DDT	%	70			70-130	Pass	
a-HCH	%	70			70-130	Pass	
Aldrin	%	73			70-130	Pass	
b-HCH	%	78			70-130	Pass	
d-HCH	%	70			70-130	Pass	
Dieldrin	%	74			70-130	Pass	
Endosulfan I	%	73			70-130	Pass	
Endosulfan II	%	82			70-130	Pass	
Endosulfan sulphate	%	70			70-130	Pass	
Endrin	%	70			70-130	Pass	
Endrin ketone	%	74			70-130	Pass	
g-HCH (Lindane)	%	72			70-130	Pass	
Heptachlor	%	70			70-130	Pass	
Heptachlor epoxide	%	75			70-130	Pass	
Hexachlorobenzene	%	75			70-130	Pass	
Methoxychlor	%	79			70-130	Pass	
LCS - % Recovery							
Organophosphorus Pesticides							
Diazinon	%	96			70-130	Pass	
Dimethoate	%	88			70-130	Pass	
Ethion	%	106			70-130	Pass	
Fenitrothion	%	103			70-130	Pass	
Methyl parathion	%	122			70-130	Pass	
Mevinphos	%	106			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1016	%	76			70-130	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Aroclor-1260	%	81			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	112			80-120	Pass	
Cadmium	%	114			80-120	Pass	
Chromium	%	112			80-120	Pass	
Copper	%	109			80-120	Pass	
Lead	%	112			80-120	Pass	
Mercury	%	114			80-120	Pass	
Nickel	%	113			80-120	Pass	
Zinc	%	112			80-120	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	92			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	95			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	99			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	94			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	94			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	96			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	94			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	97			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	107			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	109			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	102			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	93			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	87			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	105			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	%	107			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	%	101			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	95			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	107			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	85			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	95			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	103			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	82			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	86			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	87			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	95			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	82			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	94			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	%	102			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	86			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	89			50-150	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethene	%	84			70-130	Pass	
1.1.1-Trichloroethane	%	71			70-130	Pass	
1.2-Dichlorobenzene	%	96			70-130	Pass	

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Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
1.2-Dichloroethane			%	102			70-130	Pass	
Trichloroethene			%	87			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	S21-De54496	NCP	%	74			70-130	Pass	
TRH C10-C14	S21-De57701	NCP	%	103			70-130	Pass	
Naphthalene	S21-De54496	NCP	%	93			70-130	Pass	
TRH C6-C10	S21-De54496	NCP	%	77			70-130	Pass	
TRH >C10-C16	S21-De57701	NCP	%	100			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S21-De54496	NCP	%	79			70-130	Pass	
Toluene	S21-De54496	NCP	%	79			70-130	Pass	
Ethylbenzene	S21-De54496	NCP	%	83			70-130	Pass	
m&p-Xylenes	S21-De54496	NCP	%	83			70-130	Pass	
o-Xylene	S21-De54496	NCP	%	89			70-130	Pass	
Xylenes - Total*	S21-De54496	NCP	%	85			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Benzo(g.h.i)perylene	S21-De59736	NCP	%	89			70-130	Pass	
Chrysene	S21-De59736	NCP	%	86			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Aldrin	S21-De59736	NCP	%	80			70-130	Pass	
Endosulfan sulphate	S21-De59736	NCP	%	72			70-130	Pass	
Endrin ketone	S21-De59736	NCP	%	72			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S21-De59706	NCP	%	104			75-125	Pass	
Cadmium	N21-De50186	NCP	%	75			75-125	Pass	
Chromium	S21-De59706	NCP	%	107			75-125	Pass	
Copper	N21-De50186	NCP	%	123			75-125	Pass	
Lead	S21-De59706	NCP	%	103			75-125	Pass	
Mercury	N21-De50186	NCP	%	75			75-125	Pass	
Nickel	S21-De57657	NCP	%	98			75-125	Pass	
Zinc	N21-De50186	NCP	%	111			75-125	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	S21-De59295	NCP	%	99			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	S21-De59295	NCP	%	105			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	S21-De59295	NCP	%	90			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	S21-De59295	NCP	%	91			50-150	Pass	
Perfluorooctanoic acid (PFOA)	S21-De59295	NCP	%	92			50-150	Pass	
Perfluorononanoic acid (PFNA)	S21-De59295	NCP	%	102			50-150	Pass	
Perfluorodecanoic acid (PFDA)	S21-De59295	NCP	%	87			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	S21-De59295	NCP	%	102			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	S21-De59295	NCP	%	98			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	S21-De59295	NCP	%	97			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	S21-De59295	NCP	%	101			50-150	Pass	
Spike - % Recovery									

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Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	S21-De59295	NCP	%	92			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S21-De59295	NCP	%	88			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S21-De59295	NCP	%	112			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	S21-De59295	NCP	%	108			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	S21-De59295	NCP	%	87			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S21-De59295	NCP	%	97			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S21-De59295	NCP	%	102			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	S21-De59295	NCP	%	79			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	S21-De59295	NCP	%	94			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	S21-De59295	NCP	%	93			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	S21-De59295	NCP	%	79			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	S21-De59295	NCP	%	80			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S21-De59295	NCP	%	86			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	S21-De59295	NCP	%	103			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	S21-De59295	NCP	%	80			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S21-De59295	NCP	%	95			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	S21-De59295	NCP	%	111			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S21-De59295	NCP	%	104			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S21-De59295	NCP	%	91			50-150	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S21-De59540	CP	%	73			70-130	Pass	
Acenaphthylene	S21-De59540	CP	%	77			70-130	Pass	
Anthracene	S21-De59540	CP	%	74			70-130	Pass	
Benz(a)anthracene	S21-De59540	CP	%	70			70-130	Pass	
Benzo(a)pyrene	S21-De59540	CP	%	77			70-130	Pass	
Benzo(b&j)fluoranthene	S21-De59540	CP	%	72			70-130	Pass	
Benzo(k)fluoranthene	S21-De59540	CP	%	80			70-130	Pass	
Dibenz(a.h)anthracene	S21-De59540	CP	%	72			70-130	Pass	
Fluoranthene	S21-De59540	CP	%	74			70-130	Pass	
Fluorene	S21-De59540	CP	%	77			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S21-De59540	CP	%	72			70-130	Pass	
Naphthalene	S21-De59540	CP	%	78			70-130	Pass	

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Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Phenanthrene	S21-De59540	CP	%	77			70-130	Pass	
Pyrene	S21-De59540	CP	%	74			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S21-De59540	CP	%	79			70-130	Pass	
4.4'-DDD	S21-De59540	CP	%	75			70-130	Pass	
4.4'-DDE	S21-De59540	CP	%	75			70-130	Pass	
a-HCH	S21-De59540	CP	%	72			70-130	Pass	
b-HCH	S21-De59540	CP	%	77			70-130	Pass	
d-HCH	S21-De59540	CP	%	73			70-130	Pass	
Dieldrin	S21-De59540	CP	%	75			70-130	Pass	
Endosulfan I	S21-De59540	CP	%	78			70-130	Pass	
Endosulfan II	S21-De59540	CP	%	70			70-130	Pass	
Endrin	S21-De59540	CP	%	70			70-130	Pass	
g-HCH (Lindane)	S21-De59540	CP	%	76			70-130	Pass	
Heptachlor	S21-De59540	CP	%	74			70-130	Pass	
Heptachlor epoxide	S21-De59540	CP	%	81			70-130	Pass	
Hexachlorobenzene	S21-De59540	CP	%	77			70-130	Pass	
Methoxychlor	S21-De59540	CP	%	86			70-130	Pass	
Spike - % Recovery									
Organophosphorus Pesticides				Result 1					
Diazinon	S21-De59540	CP	%	104			70-130	Pass	
Dimethoate	S21-De59540	CP	%	86			70-130	Pass	
Ethion	S21-De59540	CP	%	117			70-130	Pass	
Fenitrothion	S21-De59540	CP	%	109			70-130	Pass	
Methyl parathion	S21-De59540	CP	%	130			70-130	Pass	
Mevinphos	S21-De59540	CP	%	118			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1016	S21-De59540	CP	%	74			70-130	Pass	
Aroclor-1260	S21-De59540	CP	%	90			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	S21-De58030	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S21-De58859	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S21-De58859	NCP	mg/kg	120	140	18	30%	Pass	
TRH C29-C36	S21-De58859	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
Naphthalene	S21-De58030	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S21-De58030	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S21-De58859	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S21-De58859	NCP	mg/kg	190	230	20	30%	Pass	
TRH >C34-C40	S21-De58859	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S21-De58030	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S21-De58030	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S21-De58030	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S21-De58030	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S21-De58030	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S21-De58030	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	

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Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S21-De59735	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S21-De59735	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S21-De59735	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S21-De59735	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S21-De59735	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S21-De59735	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S21-De59735	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S21-De59735	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S21-De59735	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S21-De59735	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S21-De59735	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S21-De59735	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S21-De59735	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S21-De59735	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S21-De59735	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S21-De59735	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S21-De59735	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S21-De59735	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S21-De59735	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S21-De59735	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	S21-De59735	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S21-De59735	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	S21-De59735	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	S21-De59735	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S21-De59735	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S21-De59735	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S21-De59735	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S21-De59735	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S21-De59735	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S21-De59735	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S21-De59735	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	S21-De59735	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S21-De59735	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S21-De59735	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S21-De59735	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S21-De59735	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toxaphene	S21-De59735	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Azinphos-methyl	S21-De59735	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Bolstar	S21-De59735	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorfenvinphos	S21-De59735	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos	S21-De59735	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos-methyl	S21-De59735	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Coumaphos	S21-De59735	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Demeton-S	S21-De59735	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Demeton-O	S21-De59735	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Diazinon	S21-De59735	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dichlorvos	S21-De59735	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dimethoate	S21-De59735	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Disulfoton	S21-De59735	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
EPN	S21-De59735	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	

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Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Ethion	S21-De59735	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethoprop	S21-De59735	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethyl parathion	S21-De59735	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenitrothion	S21-De59735	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fensulfothion	S21-De59735	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenthion	S21-De59735	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Malathion	S21-De59735	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Merphos	S21-De59735	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Methyl parathion	S21-De59735	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Mevinphos	S21-De59735	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Monocrotophos	S21-De59735	NCP	mg/kg	2.4	2.4	<1	30%	Pass	
Naled	S21-De59735	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Omethoate	S21-De59735	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Phorate	S21-De59735	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pirimiphos-methyl	S21-De59735	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pyrazophos	S21-De59735	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ronnel	S21-De59735	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Terbufos	S21-De59735	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tetrachlorvinphos	S21-De59735	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tokuthion	S21-De59735	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Trichloronate	S21-De59735	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	S21-De59735	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1221	S21-De59735	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	S21-De59735	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1242	S21-De59735	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1248	S21-De59735	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1254	S21-De59735	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1260	S21-De59735	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Total PCB*	S21-De59735	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	N21-De50182	NCP	mg/kg	2.2	2.5	12	30%	Pass	
Cadmium	N21-De50182	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	N21-De50182	NCP	mg/kg	< 5	5.4	8.0	30%	Pass	
Copper	N21-De50182	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
Lead	N21-De50182	NCP	mg/kg	< 5	5.4	25	30%	Pass	
Mercury	N21-De50182	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	N21-De50182	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
Zinc	N21-De50182	NCP	mg/kg	18	18	3.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-De59010	NCP	%	6.8	7.2	6.0	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	S21-De59294	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	S21-De59294	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	S21-De59294	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	S21-De59294	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	S21-De59294	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	S21-De59294	NCP	ug/kg	22	22	1.0	30%	Pass	
Perfluorodecanoic acid (PFDA)	S21-De59294	NCP	ug/kg	< 5	< 5	<1	30%	Pass	

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Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluoroundecanoic acid (PFUnDA)	S21-De59294	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	S21-De59294	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	S21-De59294	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	S21-De59294	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	S21-De59294	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S21-De59294	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S21-De59294	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	S21-De59294	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	S21-De59294	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S21-De59294	NCP	ug/kg	< 10	< 10	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S21-De59294	NCP	ug/kg	< 10	< 10	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	S21-De59294	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	S21-De59294	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	S21-De59294	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	S21-De59294	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	S21-De59294	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S21-De59294	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	S21-De59294	NCP	ug/kg	160	150	4.0	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	S21-De59294	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S21-De59294	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	S21-De59294	NCP	ug/kg	< 10	< 10	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S21-De59294	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S21-De59294	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1-Dichloroethene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1-Trichloroethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

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Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1.2-Trichloroethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichlorobenzene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloroethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloropropane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3-Trichloropropane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trimethylbenzene	S21-De51655	NCP	mg/kg	0.9	1.6	50	30%	Fail	
1.3-Dichlorobenzene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichloropropane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3.5-Trimethylbenzene	S21-De51655	NCP	mg/kg	< 0.5	0.6	63	30%	Fail	
1.4-Dichlorobenzene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Butanone (MEK)	S21-De51655	NCP	mg/kg	0.5	0.7	26	30%	Pass	
2-Propanone (Acetone)	S21-De51655	NCP	mg/kg	2.9	3.3	13	30%	Pass	
4-Chlorotoluene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Allyl chloride	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromobenzene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromochloromethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromodichloromethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromoform	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromomethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon disulfide	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon Tetrachloride	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chlorobenzene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroform	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloromethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.2-Dichloroethene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.3-Dichloropropene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromochloromethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromomethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorodifluoromethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Iodomethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Isopropyl benzene (Cumene)	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Methylene Chloride	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Styrene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Tetrachloroethene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.2-Dichloroethene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.3-Dichloropropene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichloroethene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichlorofluoromethane	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Vinyl chloride	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

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Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
G01	The LORs have been raised due to matrix interference
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).

Authorised by:

Ursula Long	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
John Nguyen	Senior Analyst-Metal (NSW)
Roopesh Rangarajan	Senior Analyst-Volatile (NSW)
Sarah McCallion	Senior Analyst-PFAS (QLD)



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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Hi Team,

Please see highlighted notes below re this batch.

- Sample Trip Blank (ES2146476-034) and Trip Spike (ES2146476-035) not received – these were mistakenly added onto the CoC, please disregard these samples.
- Extra PFAS jar received with no ID (ES2146476-038) – were there any samples missing a PFAS containers?
- Extra Asbestos bag received – BUR_BH118_0.1 (ES2146476-039) – This bag should be relabelled BUR_BH118_0.25 (ES2146476-025). Please log Asbestos analysis as per the CoC.

Kind Regards,

Sep Mahamad

Project Manager, Environmental
Sydney

T +61 2 8784 8555
D +61 2 8784 8504
sepan.mahamad@alsglobal.com
277-289 Woodpark Road
Smithfield NSW 2164 AUSTRALIA

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From: Tristan Rodrigues <Tristan.Rodrigues@erm.com>
Sent: Wednesday, 22 December 2021 12:13 PM
To: Sepan Mahamad <Sepan.Mahamad@alsglobal.com>
Subject: [EXTERNAL] - RE: ES2146476 0577577-Burwood

CAUTION: This email originated from outside of ALS. Do not click links or open attachments unless you recognize the sender and are sure content is relevant to you.

Thanks Sep,

DRAFT

Extra Trip Spike and Trip Blank was a mistake on the COC as there was already one sent and received in this batch of samples (Lab ID 6 and 7)

Sample BUR_BH118_0.1 should be relabelled to BUR_BH118_0.25

For the extra PFAS jar received, was there any samples from the COC where a PFAS Jar was not received even if PFAS analysis was not requested.

Kind Regards

Tristan Rodrigues
Environmental Consultant

ERM
Unit 11, 277 Lane Cove Road | Macquarie Park | NSW | 2113
T +61 2 8586 8750 **M** +61417187687
E Tristan.Rodrigues@erm.com | **W** www.erm.com



ERM *The business of sustainability*

From: Sepan Mahamad <Sepan.Mahamad@alsglobal.com>
Sent: Wednesday, December 22, 2021 11:42 AM
To: Tristan Rodrigues <Tristan.Rodrigues@erm.com>
Subject: RE: ES2146476 0577577-Burwood

Hi Tristan,

There are also a few other notes re this batch:

- Sample Trip Blank (ES2146476-034) and Trip Spike (ES2146476-035) not received;
- Extra PFAS jar received with no ID (ES2146476-038)
- Extra Asbestos bag received – BUR_BH118_0.1 (ES2146476-039)

Kind Regards,

Sep Mahamad
Project Manager, Environmental
Sydney



T +61 2 8784 8555
D +61 2 8784 8504
sepan.mahamad@alsglobal.com
277-289 Woodpark Road
Smithfield NSW 2164 AUSTRALIA

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ALS Environmental

CERTIFICATE OF ANALYSIS

Work Order	: **ES2146476**	Page	: 1 of 45
Amendment	: **1**		
Client	: **ENVIRONMENTAL RESOURCES MANAGEMENT (ERM)**	Laboratory	: Environmental Division Sydney
Contact	: MS JESSICA LAWRENCE	Contact	: Customer Services ES
Address	: LEVEL 15 309 KENT STREET SYDNEY NSW AUSTRALIA 2000	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: +61 02 8584 8888	Telephone	: +61-2-8784 8555
Project	: 0577577-Burwood	Date Samples Received	: 17-Dec-2021 18:50
Order number	: ----	Date Analysis Commenced	: 20-Dec-2021
C-O-C number	: ----	Issue Date	: 02-Feb-2022 16:17
Sampler	: MADUSHANI BOLONGHE, TRISTAN RODRIGUES		
Site	: ----		
Quote number	: EN/114		
No. of samples received	: 37		
No. of samples analysed	: 21		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Descriptive Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Alana Smylie	Asbestos Identifier	Newcastle - Asbestos, Mayfield West, NSW
Edwandy Fadjar	Organic Coordinator	Sydney Organics, Smithfield, NSW
Franco Lentini	LCMS Coordinator	Sydney Inorganics, Smithfield, NSW
Franco Lentini	LCMS Coordinator	Sydney Organics, Smithfield, NSW
Ivan Taylor	Analyst	Sydney Inorganics, Smithfield, NSW
Wisam Marassa	Inorganics Coordinator	Sydney Inorganics, Smithfield, NSW

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General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- EP075 (SIM): Where reported, Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) per the NEPM (2013) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a.h)anthracene (1.0), Benzo(g.h.i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero.
- Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) per the NEPM (2013) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a.h)anthracene (1.0), Benzo(g.h.i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero, for 'TEQ 1/2LOR' are treated as half the reported LOR, and for 'TEQ LOR' are treated as being equal to the reported LOR. Note: TEQ 1/2LOR and TEQ LOR will calculate as 0.6mg/Kg and 1.2mg/Kg respectively for samples with non-detects for all of the eight TEQ PAHs.
- EP231X - Per- and Polyfluoroalkyl Substances (PFAS): Samples received in 20ml or 125ml bottles have been tested in accordance with the QSM5.3 compliant, NATA accredited method. 60mL or 250mL bottles have been tested to the legacy QSM 5.1 aligned, NATA accredited method.
- EP080: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EP068: Where reported, Total Chlordane (sum) is the sum of the reported concentrations of cis-Chlordane and trans-Chlordane at or above the LOR.
- EP068: Where reported, Total OCP is the sum of the reported concentrations of all Organochlorine Pesticides at or above LOR.
- EP074: Where reported, Total Trihalomethanes is the sum of the reported concentrations of all Trihalomethanes at or above the LOR.
- EP074: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EP074: Where reported, Sum of chlorinated hydrocarbons includes carbon tetrachloride, chlorobenzene, chloroform, 1,2-dichlorobenzene, 1,4-dichlorobenzene, 1,2-dichloroethane, 1,1-dichloroethene, cis-1,2-dichlorothene, trans-1,2-dichlorothene, 1,1,1,2-tetrachloroethane, 1,1,2,2-tetrachloroethane, 1,2,4-trichlorobenzene, 1,1,1-trichloroethane, 1,1,2-trichloroethane, trichloroethene, vinyl chloride, hexachlorobutadiene and methylene chloride.
- EP074: Where reported, Total Trimethylbenzenes is the sum of the reported concentrations of 1.2.3-Trimethylbenzene, 1.2.4-Trimethylbenzene and 1.3.5-Trimethylbenzene at or above the LOR.
- EP075(SIM): Where reported, Total Cresol is the sum of the reported concentrations of 2-Methylphenol and 3- & 4-Methylphenol at or above the LOR.
- EG035: Positive Mercury result ES2146476 #12 has been confirmed by reanalysis.
- EP080: The trip spike and its control have been analysed for volatile TPH and BTEXN only. The trip spike and control were prepared in the lab using reagent grade sand spiked with petrol. The spike was dispatched from the lab and the control retained.
- Amendment (02/02/22):This report has been amended to changed LOR for PFAS analysis to 5ug/kg.
- EA200 'Am' Amosite (brown asbestos)
- EA200 'Cr' Crocidolite (blue asbestos)
- EA200 'Trace' - Asbestos fibres ("Free Fibres") detected by trace analysis per AS4964. The result can be interpreted that the sample contains detectable 'respirable' asbestos fibres
- EA200: Asbestos Identification Samples were analysed by Polarised Light Microscopy including dispersion staining.

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- EA200 Legend
- EA200 'Ch' Chrysotile (white asbestos)
- EA200: 'UMF' Unknown Mineral Fibres. "-" indicates fibres detected may or may not be asbestos fibres. Confirmation by alternative techniques is recommended.
- EA200: For samples larger than 30g, the <2mm fraction may be sub-sampled prior to trace analysis as outlined in ISO23909:2008(E) Sect 6.3.2-2
- EA200: 'Yes' - Asbestos detected by polarised light microscopy including dispersion staining.
- EA200: 'No*' - No asbestos found, at the reporting limit of 0.1g/kg, by polarised light microscopy including dispersion staining. Asbestos material was detected and positively identified at concentrations estimated to be below 0.1g/kg.
- EA200: 'No' - No asbestos found at the reporting limit 0.1g/kg, by polarised light microscopy including dispersion staining.
- EP231: Stable isotope enriched internal standards are added to samples prior to extraction. Target compounds have a direct analogous internal standard with the exception of PFPeS, PFHpA, PFDS, PFTrDA and 10:2 FTS. These compounds use an internal standard that is chemically related and has a retention time close to that of the target compound. The DQO for internal standard response is 50-150% of that established at initial calibration. PFOS is quantified using a certified, traceable standard consisting of linear and branched PFOS isomers. These practices are in line with recommendations in the National Environmental Management Plan for PFAS (Australian HEPA) and also conform to QSM 5.3 (US DoD) requirements.

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Analytical Results

Sub-Matrix: **SOIL**
(Matrix: **SOIL**)

Compound	CAS Number	LOR	Unit	Sample ID	BUR_BH105_0.1	BUR_BH105_3.0	Trip Blank	Trip Spike	BUR_BH102_0.2 BUR_BH102_0.15
				Sampling date / time	15-Dec-2021 00:00	15-Dec-2021 00:00	15-Dec-2021 00:00	13-Dec-2021 00:00	16-Dec-2021 00:00
					ES2146476-001	ES2146476-004	ES2146476-006	ES2146476-007	ES2146476-008
					Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%		15.3	12.0	----	----	15.0
EA200: AS 4964 - 2004 Identification of Asbestos in Soils									
Asbestos Detected	1332-21-4	0.1	g/kg		No	----	----	----	----
Asbestos (Trace)	1332-21-4	5	Fibres		No	----	----	----	----
Asbestos Type	1332-21-4	-	--		-	----	----	----	----
Sample weight (dry)	----	0.01	g		134	----	----	----	----
APPROVED IDENTIFIER:	----	-	--		A. SMYLIE	----	----	----	----
Synthetic Mineral Fibre	----	0.1	g/kg		No	----	----	----	----
Organic Fibre	----	0.1	g/kg		No	----	----	----	----
EG005(ED093)T: Total Metals by ICP-AES									
Arsenic	7440-38-2	5	mg/kg		<5	15	----	----	9
Cadmium	7440-43-9	1	mg/kg		<1	<1	----	----	<1
Chromium	7440-47-3	2	mg/kg		<2	7	----	----	15
Copper	7440-50-8	5	mg/kg		<5	33	----	----	<5
Lead	7439-92-1	5	mg/kg		6	44	----	----	41
Nickel	7440-02-0	2	mg/kg		<2	8	----	----	<2
Zinc	7440-66-6	5	mg/kg		80	31	----	----	16
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg		<0.1	<0.1	----	----	<0.1
EP066: Polychlorinated Biphenyls (PCB)									
Total Polychlorinated biphenyls	----	0.1	mg/kg		<0.1	<0.1	----	----	<0.1
EP068A: Organochlorine Pesticides (OC)									
alpha-BHC	319-84-6	0.05	mg/kg		<0.05	<0.05	----	----	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg		<0.05	<0.05	----	----	<0.05
beta-BHC	319-85-7	0.05	mg/kg		<0.05	<0.05	----	----	<0.05
gamma-BHC	58-89-9	0.05	mg/kg		<0.05	<0.05	----	----	<0.05
delta-BHC	319-86-8	0.05	mg/kg		<0.05	<0.05	----	----	<0.05
Heptachlor	76-44-8	0.05	mg/kg		<0.05	<0.05	----	----	<0.05
Aldrin	309-00-2	0.05	mg/kg		<0.05	<0.05	----	----	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg		<0.05	<0.05	----	----	<0.05
^ Total Chlordane (sum)	----	0.05	mg/kg		<0.05	<0.05	----	----	<0.05
trans-Chlordane	5103-74-2	0.05	mg/kg		<0.05	<0.05	----	----	<0.05
alpha-Endosulfan	959-98-8	0.05	mg/kg		<0.05	<0.05	----	----	<0.05
cis-Chlordane	5103-71-9	0.05	mg/kg		<0.05	<0.05	----	----	<0.05

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BUR_BH105_0.1	BUR_BH105_3.0	Trip Blank	Trip Spike	BUR_BH102_0.2 BUR_BH102_0.15
				Sampling date / time	15-Dec-2021 00:00	15-Dec-2021 00:00	15-Dec-2021 00:00	13-Dec-2021 00:00	16-Dec-2021 00:00
Compound	CAS Number	LOR	Unit		ES2146476-001	ES2146476-004	ES2146476-006	ES2146476-007	ES2146476-008
					Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued									
Dieldrin	60-57-1	0.05	mg/kg		<0.05	<0.05	----	----	<0.05
4.4`-DDE	72-55-9	0.05	mg/kg		<0.05	<0.05	----	----	<0.05
Endrin	72-20-8	0.05	mg/kg		<0.05	<0.05	----	----	<0.05
beta-Endosulfan	33213-65-9	0.05	mg/kg		<0.05	<0.05	----	----	<0.05
^ Endosulfan (sum)	115-29-7	0.05	mg/kg		<0.05	<0.05	----	----	<0.05
4.4`-DDD	72-54-8	0.05	mg/kg		<0.05	<0.05	----	----	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg		<0.05	<0.05	----	----	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg		<0.05	<0.05	----	----	<0.05
4.4`-DDT	50-29-3	0.2	mg/kg		<0.2	<0.2	----	----	<0.2
Endrin ketone	53494-70-5	0.05	mg/kg		<0.05	<0.05	----	----	<0.05
Methoxychlor	72-43-5	0.2	mg/kg		<0.2	<0.2	----	----	<0.2
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg		<0.05	<0.05	----	----	<0.05
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-29-3	0.05	mg/kg		<0.05	<0.05	----	----	<0.05
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.05	mg/kg		<0.05	<0.05	----	----	<0.05
Demeton-S-methyl	919-86-8	0.05	mg/kg		<0.05	<0.05	----	----	<0.05
Monocrotophos	6923-22-4	0.2	mg/kg		<0.2	<0.2	----	----	<0.2
Dimethoate	60-51-5	0.05	mg/kg		<0.05	<0.05	----	----	<0.05
Diazinon	333-41-5	0.05	mg/kg		<0.05	<0.05	----	----	<0.05
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg		<0.05	<0.05	----	----	<0.05
Parathion-methyl	298-00-0	0.2	mg/kg		<0.2	<0.2	----	----	<0.2
Malathion	121-75-5	0.05	mg/kg		<0.05	<0.05	----	----	<0.05
Fenthion	55-38-9	0.05	mg/kg		<0.05	<0.05	----	----	<0.05
Chlorpyrifos	2921-88-2	0.05	mg/kg		<0.05	<0.05	----	----	<0.05
Parathion	56-38-2	0.2	mg/kg		<0.2	<0.2	----	----	<0.2
Pirimphos-ethyl	23505-41-1	0.05	mg/kg		<0.05	<0.05	----	----	<0.05
Chlorfenvinphos	470-90-6	0.05	mg/kg		<0.05	<0.05	----	----	<0.05
Bromophos-ethyl	4824-78-6	0.05	mg/kg		<0.05	<0.05	----	----	<0.05
Fenamiphos	22224-92-6	0.05	mg/kg		<0.05	<0.05	----	----	<0.05
Prothiofos	34643-46-4	0.05	mg/kg		<0.05	<0.05	----	----	<0.05
Ethion	563-12-2	0.05	mg/kg		<0.05	<0.05	----	----	<0.05
Carbophenothion	786-19-6	0.05	mg/kg		<0.05	<0.05	----	----	<0.05
Azinphos Methyl	86-50-0	0.05	mg/kg		<0.05	<0.05	----	----	<0.05

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH105_0.1	BUR_BH105_3.0	Trip Blank	Trip Spike	BUR_BH102_0.2 BUR_BH102_0.15
			Sampling date / time	15-Dec-2021 00:00	15-Dec-2021 00:00	15-Dec-2021 00:00	13-Dec-2021 00:00	16-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146476-001	ES2146476-004	ES2146476-006	ES2146476-007	ES2146476-008
				Result	Result	Result	Result	Result
EP074A: Monocyclic Aromatic Hydrocarbons								
Styrene	100-42-5	0.5	mg/kg	<0.5	----	----	----	<0.5
Isopropylbenzene	98-82-8	0.5	mg/kg	<0.5	----	----	----	<0.5
n-Propylbenzene	103-65-1	0.5	mg/kg	<0.5	----	----	----	<0.5
1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	<0.5	----	----	----	<0.5
sec-Butylbenzene	135-98-8	0.5	mg/kg	<0.5	----	----	----	<0.5
1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	<0.5	----	----	----	<0.5
tert-Butylbenzene	98-06-6	0.5	mg/kg	<0.5	----	----	----	<0.5
p-Isopropyltoluene	99-87-6	0.5	mg/kg	<0.5	----	----	----	<0.5
n-Butylbenzene	104-51-8	0.5	mg/kg	<0.5	----	----	----	<0.5
EP074B: Oxygenated Compounds								
Vinyl Acetate	108-05-4	5	mg/kg	<5	----	----	----	<5
2-Butanone (MEK)	78-93-3	5	mg/kg	<5	----	----	----	<5
4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	<5	----	----	----	<5
2-Hexanone (MBK)	591-78-6	5	mg/kg	<5	----	----	----	<5
EP074C: Sulfonated Compounds								
Carbon disulfide	75-15-0	0.5	mg/kg	<0.5	----	----	----	<0.5
EP074D: Fumigants								
2.2-Dichloropropane	594-20-7	0.5	mg/kg	<0.5	----	----	----	<0.5
1.2-Dichloropropane	78-87-5	0.5	mg/kg	<0.5	----	----	----	<0.5
cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	<0.5	----	----	----	<0.5
trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	<0.5	----	----	----	<0.5
1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	<0.5	----	----	----	<0.5
EP074E: Halogenated Aliphatic Compounds								
Dichlorodifluoromethane	75-71-8	5	mg/kg	<5	----	----	----	<5
Chloromethane	74-87-3	5	mg/kg	<5	----	----	----	<5
Vinyl chloride	75-01-4	5	mg/kg	<5	----	----	----	<5
Bromomethane	74-83-9	5	mg/kg	<5	----	----	----	<5
Chloroethane	75-00-3	5	mg/kg	<5	----	----	----	<5
Trichlorofluoromethane	75-69-4	5	mg/kg	<5	----	----	----	<5
1.1-Dichloroethene	75-35-4	0.5	mg/kg	<0.5	----	----	----	<0.5
Iodomethane	74-88-4	0.5	mg/kg	<0.5	----	----	----	<0.5
trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	<0.5	----	----	----	<0.5
1.1-Dichloroethane	75-34-3	0.5	mg/kg	<0.5	----	----	----	<0.5
cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	<0.5	----	----	----	<0.5

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH105_0.1	BUR_BH105_3.0	Trip Blank	Trip Spike	BUR_BH102_0.2 BUR_BH102_0.15
			Sampling date / time	15-Dec-2021 00:00	15-Dec-2021 00:00	15-Dec-2021 00:00	13-Dec-2021 00:00	16-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146476-001	ES2146476-004	ES2146476-006	ES2146476-007	ES2146476-008
				Result	Result	Result	Result	Result
EP074E: Halogenated Aliphatic Compounds - Continued								
1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	<0.5	----	----	----	<0.5
1.1-Dichloropropylene	563-58-6	0.5	mg/kg	<0.5	----	----	----	<0.5
Carbon Tetrachloride	56-23-5	0.5	mg/kg	<0.5	----	----	----	<0.5
1.2-Dichloroethane	107-06-2	0.5	mg/kg	<0.5	----	----	----	<0.5
Trichloroethene	79-01-6	0.5	mg/kg	<0.5	----	----	----	<0.5
Dibromomethane	74-95-3	0.5	mg/kg	<0.5	----	----	----	<0.5
1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	<0.5	----	----	----	<0.5
1.3-Dichloropropane	142-28-9	0.5	mg/kg	<0.5	----	----	----	<0.5
Tetrachloroethene	127-18-4	0.5	mg/kg	<0.5	----	----	----	<0.5
1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	<0.5	----	----	----	<0.5
trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	<0.5	----	----	----	<0.5
cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	<0.5	----	----	----	<0.5
1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	<0.5	----	----	----	<0.5
1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	<0.5	----	----	----	<0.5
Pentachloroethane	76-01-7	0.5	mg/kg	<0.5	----	----	----	<0.5
1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	<0.5	----	----	----	<0.5
Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	----	----	----	<0.5
EP074F: Halogenated Aromatic Compounds								
Chlorobenzene	108-90-7	0.5	mg/kg	<0.5	----	----	----	<0.5
Bromobenzene	108-86-1	0.5	mg/kg	<0.5	----	----	----	<0.5
2-Chlorotoluene	95-49-8	0.5	mg/kg	<0.5	----	----	----	<0.5
4-Chlorotoluene	106-43-4	0.5	mg/kg	<0.5	----	----	----	<0.5
1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	----	----	----	<0.5
1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	----	----	----	<0.5
1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	----	----	----	<0.5
1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	----	----	----	<0.5
1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	<0.5	----	----	----	<0.5
EP074G: Trihalomethanes								
Chloroform	67-66-3	0.5	mg/kg	<0.5	----	----	----	<0.5
Bromodichloromethane	75-27-4	0.5	mg/kg	<0.5	----	----	----	<0.5
Dibromochloromethane	124-48-1	0.5	mg/kg	<0.5	----	----	----	<0.5
Bromoform	75-25-2	0.5	mg/kg	<0.5	----	----	----	<0.5
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	----	----	<0.5

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BUR_BH105_0.1	BUR_BH105_3.0	Trip Blank	Trip Spike	BUR_BH102_0.2 BUR_BH102_0.15
				Sampling date / time	15-Dec-2021 00:00	15-Dec-2021 00:00	15-Dec-2021 00:00	13-Dec-2021 00:00	16-Dec-2021 00:00
Compound	CAS Number	LOR	Unit		ES2146476-001	ES2146476-004	ES2146476-006	ES2146476-007	ES2146476-008
					Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued									
Acenaphthylene	208-96-8	0.5	mg/kg		<0.5	<0.5	----	----	<0.5
Acenaphthene	83-32-9	0.5	mg/kg		<0.5	<0.5	----	----	<0.5
Fluorene	86-73-7	0.5	mg/kg		<0.5	<0.5	----	----	<0.5
Phenanthrene	85-01-8	0.5	mg/kg		<0.5	<0.5	----	----	<0.5
Anthracene	120-12-7	0.5	mg/kg		<0.5	<0.5	----	----	<0.5
Fluoranthene	206-44-0	0.5	mg/kg		<0.5	<0.5	----	----	<0.5
Pyrene	129-00-0	0.5	mg/kg		<0.5	<0.5	----	----	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg		<0.5	<0.5	----	----	<0.5
Chrysene	218-01-9	0.5	mg/kg		<0.5	<0.5	----	----	<0.5
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg		<0.5	<0.5	----	----	<0.5
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg		<0.5	<0.5	----	----	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg		<0.5	<0.5	----	----	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		<0.5	<0.5	----	----	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		<0.5	<0.5	----	----	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		<0.5	<0.5	----	----	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg		<0.5	<0.5	----	----	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg		<0.5	<0.5	----	----	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg		**0.6**	**0.6**	----	----	**0.6**
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg		**1.2**	**1.2**	----	----	**1.2**
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg		<10	<10	----	----	<10
C10 - C14 Fraction	----	50	mg/kg		<50	<50	----	----	<50
C15 - C28 Fraction	----	100	mg/kg		<100	<100	----	----	<100
C29 - C36 Fraction	----	100	mg/kg		<100	<100	----	----	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg		<50	<50	----	----	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		<10	<10	----	----	<10
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg		<10	<10	----	----	<10
>C10 - C16 Fraction	----	50	mg/kg		<50	<50	----	----	<50
>C16 - C34 Fraction	----	100	mg/kg		<100	<100	----	----	<100
>C34 - C40 Fraction	----	100	mg/kg		<100	<100	----	----	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg		<50	<50	----	----	<50

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH105_0.1	BUR_BH105_3.0	Trip Blank	Trip Spike	BUR_BH102_0.2 BUR_BH102_0.15
			Sampling date / time	15-Dec-2021 00:00	15-Dec-2021 00:00	15-Dec-2021 00:00	13-Dec-2021 00:00	16-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146476-001	ES2146476-004	ES2146476-006	ES2146476-007	ES2146476-008
				Result	Result	Result	Result	Result
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued								
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	<50	----	----	<50
EP080: BTEXN								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	19.2	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	3.6	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	<0.5	18.8	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	7.9	<0.5
^ Total Xylenes	----	0.5	mg/kg	<0.5	<0.5	<0.5	26.7	<0.5
^ Sum of BTEX	----	0.2	mg/kg	<0.2	<0.2	<0.2	49.5	<0.2
Naphthalene	91-20-3	1	mg/kg	<1	<1	<1	1	<1
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	5.0	µg/kg	<5.0	----	----	----	<5.0
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	5.0	µg/kg	<5.0	----	----	----	<5.0
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	5.0	µg/kg	<5.0	----	----	----	<5.0
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	5.0	µg/kg	<5.0	----	----	----	<5.0
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	5.0	µg/kg	<5.0	----	----	----	<5.0
Perfluorodecane sulfonic acid (PFDS)	335-77-3	5.0	µg/kg	<5.0	----	----	----	<5.0
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	5	µg/kg	<5	----	----	----	<5
Perfluoropentanoic acid (PFPeA)	2706-90-3	5.0	µg/kg	<5.0	----	----	----	<5.0
Perfluorohexanoic acid (PFHxA)	307-24-4	5.0	µg/kg	<5.0	----	----	----	<5.0
Perfluoroheptanoic acid (PFHpA)	375-85-9	5.0	µg/kg	<5.0	----	----	----	<5.0
Perfluorooctanoic acid (PFOA)	335-67-1	5.0	µg/kg	<5.0	----	----	----	<5.0
Perfluorononanoic acid (PFNA)	375-95-1	5.0	µg/kg	<5.0	----	----	----	<5.0
Perfluorodecanoic acid (PFDA)	335-76-2	5.0	µg/kg	<5.0	----	----	----	<5.0
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	5.0	µg/kg	<5.0	----	----	----	<5.0

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Analytical Results

Sub-Matrix: **SOIL**
(Matrix: **SOIL**)

Compound	CAS Number	LOR	Unit	Sample ID	BUR_BH105_0.1	BUR_BH105_3.0	Trip Blank	Trip Spike	BUR_BH102_0.2 BUR_BH102_0.15
				Sampling date / time	15-Dec-2021 00:00	15-Dec-2021 00:00	15-Dec-2021 00:00	13-Dec-2021 00:00	16-Dec-2021 00:00
					ES2146476-001	ES2146476-004	ES2146476-006	ES2146476-007	ES2146476-008
					Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids - Continued									
Perfluorododecanoic acid (PFDoDA)	307-55-1	5.0	µg/kg		<5.0	----	----	----	<5.0
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	5.0	µg/kg		<5.0	----	----	----	<5.0
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	5.0	µg/kg		<5.0	----	----	----	<5.0
EP231C: Perfluoroalkyl Sulfonamides									
Perfluorooctane sulfonamide (FOSA)	754-91-6	5.0	µg/kg		<5.0	----	----	----	<5.0
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	5.0	µg/kg		<5.0	----	----	----	<5.0
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	5.0	µg/kg		<5.0	----	----	----	<5.0
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	5.0	µg/kg		<5.0	----	----	----	<5.0
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	5.0	µg/kg		<5.0	----	----	----	<5.0
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	5.0	µg/kg		<5.0	----	----	----	<5.0
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	5.0	µg/kg		<5.0	----	----	----	<5.0
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	5.0	µg/kg		<5.0	----	----	----	<5.0
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	5.0	µg/kg		<5.0	----	----	----	<5.0
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	5.0	µg/kg		<5.0	----	----	----	<5.0
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	5.0	µg/kg		<5.0	----	----	----	<5.0
EP231P: PFAS Sums									
Sum of PFAS	---	5.0	µg/kg		<5.0	---	----	----	<5.0
Sum of PFHxS and PFOS	355-46-4/1763-23-1	5.0	µg/kg		<5.0	---	----	----	<5.0

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH105_0.1	BUR_BH105_3.0	Trip Blank	Trip Spike	BUR_BH102_0.2 BUR_BH102_0.15
			Sampling date / time	15-Dec-2021 00:00	15-Dec-2021 00:00	15-Dec-2021 00:00	13-Dec-2021 00:00	16-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146476-001	ES2146476-004	ES2146476-006	ES2146476-007	ES2146476-008
				Result	Result	Result	Result	Result
EP231P: PFAS Sums - Continued								
Sum of PFAS (WA DER List)	----	5.0	µg/kg	<5.0	----	----	----	<5.0
EP066S: PCB Surrogate								
Decachlorobiphenyl	2051-24-3	0.1	%	101	120	----	----	119
EP068S: Organochlorine Pesticide Surrogate								
Dibromo-DDE	21655-73-2	0.05	%	98.0	107	----	----	119
EP068T: Organophosphorus Pesticide Surrogate								
DEF	78-48-8	0.05	%	68.4	76.0	----	----	131
EP074S: VOC Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.5	%	101	----	----	----	89.0
Toluene-D8	2037-26-5	0.5	%	103	----	----	----	92.5
4-Bromofluorobenzene	460-00-4	0.5	%	100	----	----	----	90.7
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.5	%	80.7	88.8	----	----	91.4
2-Chlorophenol-D4	93951-73-6	0.5	%	85.8	95.8	----	----	96.7
2.4.6-Tribromophenol	118-79-6	0.5	%	79.8	87.0	----	----	89.5
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.5	%	96.3	105	----	----	107
Anthracene-d10	1719-06-8	0.5	%	87.4	94.8	----	----	99.4
4-Terphenyl-d14	1718-51-0	0.5	%	88.8	96.8	----	----	99.4
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	89.7	101	133	94.8	78.9
Toluene-D8	2037-26-5	0.2	%	107	118	130	98.7	96.3
4-Bromofluorobenzene	460-00-4	0.2	%	116	125	121	86.7	104
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	104	----	----	----	82.0
13C8-PFOA	----	0.0002	%	118	----	----	----	110

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH102_2.0	BUR_BH103_0.1	BUR_BH103_0.7	BUR_BH103_3.0	BUR_BH103_5.0
			Sampling date / time	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146476-010	ES2146476-012	ES2146476-013	ES2146476-016	ES2146476-018
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	15.4	18.3	23.4	13.8	13.6
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Asbestos Detected	1332-21-4	0.1	g/kg	----	No	----	----	----
Asbestos (Trace)	1332-21-4	5	Fibres	----	No	----	----	----
Asbestos Type	1332-21-4	-	--	----	-	----	----	----
Sample weight (dry)	----	0.01	g	----	62.9	----	----	----
APPROVED IDENTIFIER:	----	-	--	----	A. SMYLIE	----	----	----
Synthetic Mineral Fibre	----	0.1	g/kg	----	No	----	----	----
Organic Fibre	----	0.1	g/kg	----	No	----	----	----
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	<5	9	9	<5	5
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg	5	22	28	6	8
Copper	7440-50-8	5	mg/kg	10	127	15	17	67
Lead	7439-92-1	5	mg/kg	15	420	25	18	25
Nickel	7440-02-0	2	mg/kg	<2	12	6	<2	4
Zinc	7440-66-6	5	mg/kg	<5	373	105	<5	26
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	0.3	<0.1	<0.1	<0.1
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Total Chlordane (sum)	----	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH102_2.0	BUR_BH103_0.1	BUR_BH103_0.7	BUR_BH103_3.0	BUR_BH103_5.0
			Sampling date / time	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146476-010	ES2146476-012	ES2146476-013	ES2146476-016	ES2146476-018
				Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued								
Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	**0.10**	<0.05	<0.05	<0.05
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.05	mg/kg	<0.05	**0.10**	<0.05	<0.05	<0.05
EP068B: Organophosphorus Pesticides (OP)								
Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
EP074A: Monocyclic Aromatic Hydrocarbons								

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH102_2.0	BUR_BH103_0.1	BUR_BH103_0.7	BUR_BH103_3.0	BUR_BH103_5.0
			Sampling date / time	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146476-010	ES2146476-012	ES2146476-013	ES2146476-016	ES2146476-018
				Result	Result	Result	Result	Result
EP074A: Monocyclic Aromatic Hydrocarbons - Continued								
Styrene	100-42-5	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
Isopropylbenzene	98-82-8	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
n-Propylbenzene	103-65-1	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
sec-Butylbenzene	135-98-8	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
tert-Butylbenzene	98-06-6	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
p-Isopropyltoluene	99-87-6	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
n-Butylbenzene	104-51-8	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
EP074B: Oxygenated Compounds								
Vinyl Acetate	108-05-4	5	mg/kg	----	<5	<5	----	<5
2-Butanone (MEK)	78-93-3	5	mg/kg	----	<5	<5	----	<5
4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	----	<5	<5	----	<5
2-Hexanone (MBK)	591-78-6	5	mg/kg	----	<5	<5	----	<5
EP074C: Sulfonated Compounds								
Carbon disulfide	75-15-0	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
EP074D: Fumigants								
2.2-Dichloropropane	594-20-7	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
1.2-Dichloropropane	78-87-5	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
EP074E: Halogenated Aliphatic Compounds								
Dichlorodifluoromethane	75-71-8	5	mg/kg	----	<5	<5	----	<5
Chloromethane	74-87-3	5	mg/kg	----	<5	<5	----	<5
Vinyl chloride	75-01-4	5	mg/kg	----	<5	<5	----	<5
Bromomethane	74-83-9	5	mg/kg	----	<5	<5	----	<5
Chloroethane	75-00-3	5	mg/kg	----	<5	<5	----	<5
Trichlorofluoromethane	75-69-4	5	mg/kg	----	<5	<5	----	<5
1.1-Dichloroethene	75-35-4	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
Iodomethane	74-88-4	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
1.1-Dichloroethane	75-34-3	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	----	<0.5	<0.5	----	<0.5

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH102_2.0	BUR_BH103_0.1	BUR_BH103_0.7	BUR_BH103_3.0	BUR_BH103_5.0
			Sampling date / time	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146476-010	ES2146476-012	ES2146476-013	ES2146476-016	ES2146476-018
				Result	Result	Result	Result	Result
EP074E: Halogenated Aliphatic Compounds - Continued								
1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
1.1-Dichloropropylene	563-58-6	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
Carbon Tetrachloride	56-23-5	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
1.2-Dichloroethane	107-06-2	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
Trichloroethene	79-01-6	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
Dibromomethane	74-95-3	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
1.3-Dichloropropane	142-28-9	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
Tetrachloroethene	127-18-4	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
Pentachloroethane	76-01-7	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
Hexachlorobutadiene	87-68-3	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
EP074F: Halogenated Aromatic Compounds								
Chlorobenzene	108-90-7	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
Bromobenzene	108-86-1	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
2-Chlorotoluene	95-49-8	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
4-Chlorotoluene	106-43-4	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
EP074G: Trihalomethanes								
Chloroform	67-66-3	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
Bromodichloromethane	75-27-4	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
Dibromochloromethane	124-48-1	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
Bromoform	75-25-2	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH102_2.0	BUR_BH103_0.1	BUR_BH103_0.7	BUR_BH103_3.0	BUR_BH103_5.0
			Sampling date / time	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146476-010	ES2146476-012	ES2146476-013	ES2146476-016	ES2146476-018
				Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued								
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	1.6	<0.5	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	0.6	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	8.1	<0.5	<0.5	<0.5
Anthracene	120-12-7	0.5	mg/kg	<0.5	2.2	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	13.6	<0.5	<0.5	<0.5
Pyrene	129-00-0	0.5	mg/kg	<0.5	12.9	<0.5	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	7.2	<0.5	<0.5	<0.5
Chrysene	218-01-9	0.5	mg/kg	<0.5	6.3	<0.5	<0.5	<0.5
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	8.2	<0.5	<0.5	<0.5
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	3.2	<0.5	<0.5	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	6.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	3.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	0.8	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	4.0	<0.5	<0.5	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	78.7	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	9.6	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	0.6	9.6	0.6	0.6	0.6
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	1.2	9.6	1.2	1.2	1.2
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	10	mg/kg	<10	<10	<10	<10	<10
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
C15 - C28 Fraction	----	100	mg/kg	<100	250	<100	<100	<100
C29 - C36 Fraction	----	100	mg/kg	<100	200	<100	<100	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	450	<50	<50	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	<10	<10	<10
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	<10	<10	<10	<10
>C10 - C16 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
>C16 - C34 Fraction	----	100	mg/kg	<100	380	<100	<100	<100
>C34 - C40 Fraction	----	100	mg/kg	<100	130	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	510	<50	<50	<50
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	<50	<50	<50	<50

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Analytical Results

Sub-Matrix: **SOIL** (Matrix: **SOIL**)

Compound	CAS Number	LOR	Unit	Sample ID	BUR_BH102_2.0	BUR_BH103_0.1	BUR_BH103_0.7	BUR_BH103_3.0	BUR_BH103_5.0
				Sampling date / time	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00
					ES2146476-010	ES2146476-012	ES2146476-013	ES2146476-016	ES2146476-018
					Result	Result	Result	Result	Result
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
^ **Total Xylenes**	----	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
^ **Sum of BTEX**	----	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	91-20-3	1	mg/kg		<1	<1	<1	<1	<1
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	5.0	µg/kg		----	<5.0	----	----	<5.0
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	5.0	µg/kg		----	<5.0	----	----	<5.0
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	5.0	µg/kg		----	<5.0	----	----	<5.0
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	5.0	µg/kg		----	<5.0	----	----	<5.0
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	5.0	µg/kg		----	<5.0	----	----	<5.0
Perfluorodecane sulfonic acid (PFDS)	335-77-3	5.0	µg/kg		----	<5.0	----	----	<5.0
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	5	µg/kg		----	<5	----	----	<5
Perfluoropentanoic acid (PFPeA)	2706-90-3	5.0	µg/kg		----	<5.0	----	----	<5.0
Perfluorohexanoic acid (PFHxA)	307-24-4	5.0	µg/kg		----	<5.0	----	----	<5.0
Perfluoroheptanoic acid (PFHpA)	375-85-9	5.0	µg/kg		----	<5.0	----	----	<5.0
Perfluorooctanoic acid (PFOA)	335-67-1	5.0	µg/kg		----	<5.0	----	----	<5.0
Perfluorononanoic acid (PFNA)	375-95-1	5.0	µg/kg		----	<5.0	----	----	<5.0
Perfluorodecanoic acid (PFDA)	335-76-2	5.0	µg/kg		----	<5.0	----	----	<5.0
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	5.0	µg/kg		----	<5.0	----	----	<5.0
Perfluorododecanoic acid (PFDoDA)	307-55-1	5.0	µg/kg		----	<5.0	----	----	<5.0
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	5.0	µg/kg		----	<5.0	----	----	<5.0

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH102_2.0	BUR_BH103_0.1	BUR_BH103_0.7	BUR_BH103_3.0	BUR_BH103_5.0
			Sampling date / time	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146476-010	ES2146476-012	ES2146476-013	ES2146476-016	ES2146476-018
				Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	5.0	µg/kg	----	<5.0	----	----	<5.0
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	5.0	µg/kg	----	<5.0	----	----	<5.0
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	5.0	µg/kg	----	<5.0	----	----	<5.0
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	5.0	µg/kg	----	<5.0	----	----	<5.0
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	5.0	µg/kg	----	<5.0	----	----	<5.0
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	5.0	µg/kg	----	<5.0	----	----	<5.0
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	5.0	µg/kg	----	<5.0	----	----	<5.0
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	5.0	µg/kg	----	<5.0	----	----	<5.0
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	5.0	µg/kg	----	<5.0	----	----	<5.0
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	5.0	µg/kg	----	<5.0	----	----	<5.0
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	5.0	µg/kg	----	<5.0	----	----	<5.0
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	5.0	µg/kg	----	<5.0	----	----	<5.0
EP231P: PFAS Sums								
Sum of PFAS	----	5.0	µg/kg	----	<5.0	----	----	<5.0
Sum of PFHxS and PFOS	355-46-4/1763-23-1	5.0	µg/kg	----	<5.0	----	----	<5.0
Sum of PFAS (WA DER List)	----	5.0	µg/kg	----	<5.0	----	----	<5.0
EP066S: PCB Surrogate								
Decachlorobiphenyl	2051-24-3	0.1	%	122	95.8	94.1	88.6	113

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH102_2.0	BUR_BH103_0.1	BUR_BH103_0.7	BUR_BH103_3.0	BUR_BH103_5.0
			Sampling date / time	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146476-010	ES2146476-012	ES2146476-013	ES2146476-016	ES2146476-018
				Result	Result	Result	Result	Result
EP068S: Organochlorine Pesticide Surrogate								
Dibromo-DDE	21655-73-2	0.05	%	111	75.4	105	95.4	119
EP068T: Organophosphorus Pesticide Surrogate								
DEF	78-48-8	0.05	%	114	124	117	103	124
EP074S: VOC Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.5	%	----	129	120	----	110
Toluene-D8	2037-26-5	0.5	%	----	117	102	----	117
4-Bromofluorobenzene	460-00-4	0.5	%	----	105	99.0	----	101
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.5	%	90.6	78.3	88.6	88.4	93.8
2-Chlorophenol-D4	93951-73-6	0.5	%	94.5	87.0	94.9	94.5	100
2.4.6-Tribromophenol	118-79-6	0.5	%	90.6	81.1	87.2	85.2	89.2
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.5	%	105	96.1	104	103	109
Anthracene-d10	1719-06-8	0.5	%	98.5	84.7	95.3	93.5	101
4-Terphenyl-d14	1718-51-0	0.5	%	98.2	88.2	95.8	94.6	99.4
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	98.6	130	121	122	97.5
Toluene-D8	2037-26-5	0.2	%	124	116	101	125	122
4-Bromofluorobenzene	460-00-4	0.2	%	128	98.3	90.0	131	110
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	----	97.0	----	----	98.0
13C8-PFOA	----	0.0002	%	----	118	----	----	112

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH104_0.2	BUR_BH104_1.0	BUR_BH104_4.0	BUR_BH118_0.25	BUR_BH118_1.5
			Sampling date / time	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146476-019	ES2146476-020	ES2146476-023	ES2146476-025	ES2146476-027
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	22.2	26.6	9.6	18.2	25.3
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Asbestos Detected	1332-21-4	0.1	g/kg	No	----	----	No	----
Asbestos (Trace)	1332-21-4	5	Fibres	No	----	----	No	----
Asbestos Type	1332-21-4	-	--	-	----	----	-	----
Sample weight (dry)	----	0.01	g	114	----	----	74.8	----
APPROVED IDENTIFIER:	----	-	--	A. SMYLIE	----	----	A. SMYLIE	----
Synthetic Mineral Fibre	----	0.1	g/kg	No	----	----	No	----
Organic Fibre	----	0.1	g/kg	No	----	----	No	----
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	10	5	8	8	<5
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg	29	15	9	28	8
Copper	7440-50-8	5	mg/kg	28	11	42	11	14
Lead	7439-92-1	5	mg/kg	99	21	20	29	26
Nickel	7440-02-0	2	mg/kg	6	<2	16	10	<2
Zinc	7440-66-6	5	mg/kg	88	<5	92	12	<5
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Total Chlordane (sum)	----	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH104_0.2	BUR_BH104_1.0	BUR_BH104_4.0	BUR_BH118_0.25	BUR_BH118_1.5
			Sampling date / time	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146476-019	ES2146476-020	ES2146476-023	ES2146476-025	ES2146476-027
				Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued								
Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDE	72-55-9	0.05	mg/kg	**0.08**	<0.05	<0.05	<0.05	<0.05
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-29-3	0.05	mg/kg	**0.08**	<0.05	<0.05	<0.05	<0.05
EP068B: Organophosphorus Pesticides (OP)								
Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
EP074A: Monocyclic Aromatic Hydrocarbons								

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH104_0.2	BUR_BH104_1.0	BUR_BH104_4.0	BUR_BH118_0.25	BUR_BH118_1.5
			Sampling date / time	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146476-019	ES2146476-020	ES2146476-023	ES2146476-025	ES2146476-027
				Result	Result	Result	Result	Result
EP074A: Monocyclic Aromatic Hydrocarbons - Continued								
Styrene	100-42-5	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Isopropylbenzene	98-82-8	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
n-Propylbenzene	103-65-1	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
sec-Butylbenzene	135-98-8	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
tert-Butylbenzene	98-06-6	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
p-Isopropyltoluene	99-87-6	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
n-Butylbenzene	104-51-8	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
EP074B: Oxygenated Compounds								
Vinyl Acetate	108-05-4	5	mg/kg	<5	<5	----	<5	<5
2-Butanone (MEK)	78-93-3	5	mg/kg	<5	<5	----	<5	<5
4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	<5	<5	----	<5	<5
2-Hexanone (MBK)	591-78-6	5	mg/kg	<5	<5	----	<5	<5
EP074C: Sulfonated Compounds								
Carbon disulfide	75-15-0	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
EP074D: Fumigants								
2.2-Dichloropropane	594-20-7	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.2-Dichloropropane	78-87-5	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
EP074E: Halogenated Aliphatic Compounds								
Dichlorodifluoromethane	75-71-8	5	mg/kg	<5	<5	----	<5	<5
Chloromethane	74-87-3	5	mg/kg	<5	<5	----	<5	<5
Vinyl chloride	75-01-4	5	mg/kg	<5	<5	----	<5	<5
Bromomethane	74-83-9	5	mg/kg	<5	<5	----	<5	<5
Chloroethane	75-00-3	5	mg/kg	<5	<5	----	<5	<5
Trichlorofluoromethane	75-69-4	5	mg/kg	<5	<5	----	<5	<5
1.1-Dichloroethene	75-35-4	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Iodomethane	74-88-4	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.1-Dichloroethane	75-34-3	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH104_0.2	BUR_BH104_1.0	BUR_BH104_4.0	BUR_BH118_0.25	BUR_BH118_1.5
			Sampling date / time	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146476-019	ES2146476-020	ES2146476-023	ES2146476-025	ES2146476-027
				Result	Result	Result	Result	Result
EP074E: Halogenated Aliphatic Compounds - Continued								
1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.1-Dichloropropylene	563-58-6	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Carbon Tetrachloride	56-23-5	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.2-Dichloroethane	107-06-2	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Trichloroethene	79-01-6	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Dibromomethane	74-95-3	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.3-Dichloropropane	142-28-9	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Tetrachloroethene	127-18-4	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Pentachloroethane	76-01-7	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
EP074F: Halogenated Aromatic Compounds								
Chlorobenzene	108-90-7	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Bromobenzene	108-86-1	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
2-Chlorotoluene	95-49-8	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
4-Chlorotoluene	106-43-4	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
EP074G: Trihalomethanes								
Chloroform	67-66-3	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Bromodichloromethane	75-27-4	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Dibromochloromethane	124-48-1	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Bromoform	75-25-2	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BUR_BH104_0.2	BUR_BH104_1.0	BUR_BH104_4.0	BUR_BH118_0.25	BUR_BH118_1.5
				Sampling date / time	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00
Compound	CAS Number	LOR	Unit		ES2146476-019	ES2146476-020	ES2146476-023	ES2146476-025	ES2146476-027
					Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued									
Acenaphthylene	208-96-8	0.5	mg/kg		0.7	<0.5	<0.5	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg		4.3	<0.5	<0.5	<0.5	<0.5
Anthracene	120-12-7	0.5	mg/kg		1.0	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg		5.9	<0.5	<0.5	<0.5	0.9
Pyrene	129-00-0	0.5	mg/kg		5.2	<0.5	<0.5	<0.5	0.8
Benz(a)anthracene	56-55-3	0.5	mg/kg		2.8	<0.5	<0.5	<0.5	<0.5
Chrysene	218-01-9	0.5	mg/kg		2.3	<0.5	<0.5	<0.5	<0.5
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg		2.8	<0.5	<0.5	<0.5	0.6
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg		1.2	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg		2.3	<0.5	<0.5	<0.5	0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		1.2	<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		1.3	<0.5	<0.5	<0.5	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg		31.0	<0.5	<0.5	<0.5	2.8
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg		3.1	<0.5	<0.5	<0.5	0.6
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg		3.4	0.6	0.6	0.6	0.9
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg		3.6	1.2	1.2	1.2	1.2
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg		<10	<10	<10	<10	<10
C10 - C14 Fraction	----	50	mg/kg		<50	<50	<50	<50	<50
C15 - C28 Fraction	----	100	mg/kg		<100	<100	<100	<100	<100
C29 - C36 Fraction	----	100	mg/kg		<100	<100	<100	<100	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg		<50	<50	<50	<50	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		<10	<10	<10	<10	<10
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg		<10	<10	<10	<10	<10
>C10 - C16 Fraction	----	50	mg/kg		<50	<50	<50	<50	<50
>C16 - C34 Fraction	----	100	mg/kg		110	<100	<100	<100	<100
>C34 - C40 Fraction	----	100	mg/kg		<100	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg		110	<50	<50	<50	<50
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		<50	<50	<50	<50	<50

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH104_0.2	BUR_BH104_1.0	BUR_BH104_4.0	BUR_BH118_0.25	BUR_BH118_1.5
			Sampling date / time	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146476-019	ES2146476-020	ES2146476-023	ES2146476-025	ES2146476-027
				Result	Result	Result	Result	Result
EP080: BTEXN								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Total Xylenes	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of BTEX	----	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	91-20-3	1	mg/kg	<1	<1	<1	<1	<1
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	5	µg/kg	<5	----	<5	<5	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
Perfluorohexanoic acid (PFHxA)	307-24-4	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
Perfluorooctanoic acid (PFOA)	335-67-1	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
Perfluorononanoic acid (PFNA)	375-95-1	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
Perfluorodecanoic acid (PFDA)	335-76-2	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	5.0	µg/kg	<5.0	----	<5.0	<5.0	----

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH104_0.2	BUR_BH104_1.0	BUR_BH104_4.0	BUR_BH118_0.25	BUR_BH118_1.5
			Sampling date / time	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146476-019	ES2146476-020	ES2146476-023	ES2146476-025	ES2146476-027
				Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
EP231P: PFAS Sums								
Sum of PFAS	----	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
Sum of PFAS (WA DER List)	----	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
EP066S: PCB Surrogate								
Decachlorobiphenyl	2051-24-3	0.1	%	104	107	106	115	89.5

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH104_0.2	BUR_BH104_1.0	BUR_BH104_4.0	BUR_BH118_0.25	BUR_BH118_1.5
			Sampling date / time	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146476-019	ES2146476-020	ES2146476-023	ES2146476-025	ES2146476-027
				Result	Result	Result	Result	Result
EP068S: Organochlorine Pesticide Surrogate								
Dibromo-DDE	21655-73-2	0.05	%	110	116	95.7	120	95.5
EP068T: Organophosphorus Pesticide Surrogate								
DEF	78-48-8	0.05	%	102	86.5	66.0	97.9	80.2
EP074S: VOC Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.5	%	96.4	68.6	----	106	86.4
Toluene-D8	2037-26-5	0.5	%	90.8	109	----	108	93.2
4-Bromofluorobenzene	460-00-4	0.5	%	93.4	80.1	----	103	86.5
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.5	%	90.0	90.4	91.0	87.1	86.9
2-Chlorophenol-D4	93951-73-6	0.5	%	97.6	96.3	98.2	94.3	92.6
2.4.6-Tribromophenol	118-79-6	0.5	%	84.8	83.9	84.2	78.5	77.4
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.5	%	108	106	107	104	101
Anthracene-d10	1719-06-8	0.5	%	97.1	100	97.4	94.3	92.7
4-Terphenyl-d14	1718-51-0	0.5	%	96.7	102	99.7	94.7	91.7
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	96.8	72.3	103	93.6	76.1
Toluene-D8	2037-26-5	0.2	%	89.9	102	121	112	96.9
4-Bromofluorobenzene	460-00-4	0.2	%	87.5	85.4	120	120	93.0
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	92.5	----	76.0	85.0	----
13C8-PFOA	----	0.0002	%	110	----	110	108	----

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH119_0.25	BUR_BH119_1.0	D01_20211216	TSC1	----
			Sampling date / time	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	13-Dec-2021 00:00	---
Compound	CAS Number	LOR	Unit	ES2146476-029	ES2146476-030	ES2146476-031	ES2146476-036	----
				Result	Result	Result	Result	---
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	26.3	21.8	20.3	----	----
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Asbestos Detected	1332-21-4	0.1	g/kg	No	----	----	----	----
Asbestos (Trace)	1332-21-4	5	Fibres	No	----	----	----	----
Asbestos Type	1332-21-4	-	--	-	----	----	----	----
Sample weight (dry)	----	0.01	g	66.6	----	----	----	----
APPROVED IDENTIFIER:	----	-	--	A. SMYLIE	----	----	----	----
Synthetic Mineral Fibre	----	0.1	g/kg	No	----	----	----	----
Organic Fibre	----	0.1	g/kg	No	----	----	----	----
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	13	6	9	----	----
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	----	----
Chromium	7440-47-3	2	mg/kg	29	12	28	----	----
Copper	7440-50-8	5	mg/kg	15	19	97	----	----
Lead	7439-92-1	5	mg/kg	26	19	379	----	----
Nickel	7440-02-0	2	mg/kg	6	<2	12	----	----
Zinc	7440-66-6	5	mg/kg	15	<5	302	----	----
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.2	----	----
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	<0.1	----	----
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
^ Total Chlordane (sum)	----	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	<0.05	----	----

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH119_0.25	BUR_BH119_1.0	D01_20211216	TSC1	----
			Sampling date / time	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	13-Dec-2021 00:00	---
Compound	CAS Number	LOR	Unit	ES2146476-029	ES2146476-030	ES2146476-031	ES2146476-036	----
				Result	Result	Result	Result	---
EP068A: Organochlorine Pesticides (OC) - Continued								
Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	**0.10**	----	----
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
^ Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	<0.2	----	----
Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	<0.2	----	----
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.05	mg/kg	<0.05	<0.05	**0.10**	----	----
EP068B: Organophosphorus Pesticides (OP)								
Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	<0.2	----	----
Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	<0.2	----	----
Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	<0.2	----	----
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
EP074A: Monocyclic Aromatic Hydrocarbons								

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH119_0.25	BUR_BH119_1.0	D01_20211216	TSC1	----
			Sampling date / time	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	13-Dec-2021 00:00	---
Compound	CAS Number	LOR	Unit	ES2146476-029	ES2146476-030	ES2146476-031	ES2146476-036	----
				Result	Result	Result	Result	---
EP074A: Monocyclic Aromatic Hydrocarbons - Continued								
Styrene	100-42-5	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Isopropylbenzene	98-82-8	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
n-Propylbenzene	103-65-1	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
sec-Butylbenzene	135-98-8	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
tert-Butylbenzene	98-06-6	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
p-Isopropyltoluene	99-87-6	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
n-Butylbenzene	104-51-8	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
EP074B: Oxygenated Compounds								
Vinyl Acetate	108-05-4	5	mg/kg	<5	<5	<5	----	----
2-Butanone (MEK)	78-93-3	5	mg/kg	<5	<5	<5	----	----
4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	<5	<5	<5	----	----
2-Hexanone (MBK)	591-78-6	5	mg/kg	<5	<5	<5	----	----
EP074C: Sulfonated Compounds								
Carbon disulfide	75-15-0	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
EP074D: Fumigants								
2.2-Dichloropropane	594-20-7	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
1.2-Dichloropropane	78-87-5	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
EP074E: Halogenated Aliphatic Compounds								
Dichlorodifluoromethane	75-71-8	5	mg/kg	<5	<5	<5	----	----
Chloromethane	74-87-3	5	mg/kg	<5	<5	<5	----	----
Vinyl chloride	75-01-4	5	mg/kg	<5	<5	<5	----	----
Bromomethane	74-83-9	5	mg/kg	<5	<5	<5	----	----
Chloroethane	75-00-3	5	mg/kg	<5	<5	<5	----	----
Trichlorofluoromethane	75-69-4	5	mg/kg	<5	<5	<5	----	----
1.1-Dichloroethene	75-35-4	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Iodomethane	74-88-4	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
1.1-Dichloroethane	75-34-3	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	<0.5	<0.5	<0.5	----	----

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH119_0.25	BUR_BH119_1.0	D01_20211216	TSC1	----
			Sampling date / time	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	13-Dec-2021 00:00	---
Compound	CAS Number	LOR	Unit	ES2146476-029	ES2146476-030	ES2146476-031	ES2146476-036	----
				Result	Result	Result	Result	---
EP074E: Halogenated Aliphatic Compounds - Continued								
1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
1.1-Dichloropropylene	563-58-6	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Carbon Tetrachloride	56-23-5	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
1.2-Dichloroethane	107-06-2	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Trichloroethene	79-01-6	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Dibromomethane	74-95-3	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
1.3-Dichloropropane	142-28-9	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Tetrachloroethene	127-18-4	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Pentachloroethane	76-01-7	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
EP074F: Halogenated Aromatic Compounds								
Chlorobenzene	108-90-7	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Bromobenzene	108-86-1	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
2-Chlorotoluene	95-49-8	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
4-Chlorotoluene	106-43-4	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
EP074G: Trihalomethanes								
Chloroform	67-66-3	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Bromodichloromethane	75-27-4	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Dibromochloromethane	124-48-1	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Bromoform	75-25-2	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	----	----

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH119_0.25	BUR_BH119_1.0	D01_20211216	TSC1	----
			Sampling date / time	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	13-Dec-2021 00:00	---
Compound	CAS Number	LOR	Unit	ES2146476-029	ES2146476-030	ES2146476-031	ES2146476-036	----
				Result	Result	Result	Result	---
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued								
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	1.9	---	---
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	---	---
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.6	---	---
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	8.5	---	---
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	2.3	---	---
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	15.2	---	---
Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	14.5	---	---
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	8.2	---	---
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	7.2	---	---
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	9.1	---	---
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	3.7	---	---
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	7.4	---	---
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	3.9	---	---
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	1.0	---	---
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	4.5	---	---
^ Sum of polycyclic aromatic hydrocarbons	---	0.5	mg/kg	<0.5	<0.5	88.0	---	---
^ Benzo(a)pyrene TEQ (zero)	---	0.5	mg/kg	<0.5	<0.5	11.0	---	---
^ Benzo(a)pyrene TEQ (half LOR)	---	0.5	mg/kg	0.6	0.6	11.0	---	---
^ Benzo(a)pyrene TEQ (LOR)	---	0.5	mg/kg	1.2	1.2	11.0	---	---
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	---	10	mg/kg	<10	<10	<10	---	---
C10 - C14 Fraction	---	50	mg/kg	<50	<50	<50	---	---
C15 - C28 Fraction	---	100	mg/kg	<100	<100	260	---	---
C29 - C36 Fraction	---	100	mg/kg	<100	<100	210	---	---
^ C10 - C36 Fraction (sum)	---	50	mg/kg	<50	<50	470	---	---
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	<10	---	---
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	<10	<10	---	---
>C10 - C16 Fraction	---	50	mg/kg	<50	<50	<50	---	---
>C16 - C34 Fraction	---	100	mg/kg	<100	<100	390	---	---
>C34 - C40 Fraction	---	100	mg/kg	<100	<100	140	---	---
^ >C10 - C40 Fraction (sum)	---	50	mg/kg	<50	<50	530	---	---
^ >C10 - C16 Fraction minus Naphthalene (F2)	---	50	mg/kg	<50	<50	<50	---	---

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH119_0.25	BUR_BH119_1.0	D01_20211216	TSC1	----
			Sampling date / time	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	13-Dec-2021 00:00	---
Compound	CAS Number	LOR	Unit	ES2146476-029	ES2146476-030	ES2146476-031	ES2146476-036	----
				Result	Result	Result	Result	---
EP080: BTEXN								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	---
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	**20.2**	---
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	**3.8**	---
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	<0.5	**20.0**	---
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	**8.4**	---
^ **Total Xylenes**	----	0.5	mg/kg	<0.5	<0.5	<0.5	**28.4**	---
^ **Sum of BTEX**	----	0.2	mg/kg	<0.2	<0.2	<0.2	**52.4**	---
Naphthalene	91-20-3	1	mg/kg	<1	<1	<1	**1**	---
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	5.0	µg/kg	<5.0	---	<5.0	---	---
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	5.0	µg/kg	<5.0	---	<5.0	---	---
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	5.0	µg/kg	<5.0	---	<5.0	---	---
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	5.0	µg/kg	<5.0	---	<5.0	---	---
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	5.0	µg/kg	<5.0	---	<5.0	---	---
Perfluorodecane sulfonic acid (PFDS)	335-77-3	5.0	µg/kg	<5.0	---	<5.0	---	---
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	5	µg/kg	<5	---	<5	---	---
Perfluoropentanoic acid (PFPeA)	2706-90-3	5.0	µg/kg	<5.0	---	<5.0	---	---
Perfluorohexanoic acid (PFHxA)	307-24-4	5.0	µg/kg	<5.0	---	<5.0	---	---
Perfluoroheptanoic acid (PFHpA)	375-85-9	5.0	µg/kg	<5.0	---	<5.0	---	---
Perfluorooctanoic acid (PFOA)	335-67-1	5.0	µg/kg	<5.0	---	<5.0	---	---
Perfluorononanoic acid (PFNA)	375-95-1	5.0	µg/kg	<5.0	---	<5.0	---	---
Perfluorodecanoic acid (PFDA)	335-76-2	5.0	µg/kg	<5.0	---	<5.0	---	---
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	5.0	µg/kg	<5.0	---	<5.0	---	---
Perfluorododecanoic acid (PFDoDA)	307-55-1	5.0	µg/kg	<5.0	---	<5.0	---	---
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	5.0	µg/kg	<5.0	---	<5.0	---	---

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH119_0.25	BUR_BH119_1.0	D01_20211216	TSC1	----
			Sampling date / time	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	13-Dec-2021 00:00	---
Compound	CAS Number	LOR	Unit	ES2146476-029	ES2146476-030	ES2146476-031	ES2146476-036	----
				Result	Result	Result	Result	---
EP231B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	5.0	µg/kg	<5.0	----	<5.0	----	----
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	5.0	µg/kg	<5.0	----	<5.0	----	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	5.0	µg/kg	<5.0	----	<5.0	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	5.0	µg/kg	<5.0	----	<5.0	----	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	5.0	µg/kg	<5.0	----	<5.0	----	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	5.0	µg/kg	<5.0	----	<5.0	----	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	5.0	µg/kg	<5.0	----	<5.0	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	5.0	µg/kg	<5.0	----	<5.0	----	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	5.0	µg/kg	<5.0	----	<5.0	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	5.0	µg/kg	<5.0	----	<5.0	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	5.0	µg/kg	<5.0	----	<5.0	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	5.0	µg/kg	<5.0	----	<5.0	----	----
EP231P: PFAS Sums								
Sum of PFAS	----	5.0	µg/kg	<5.0	----	<5.0	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	5.0	µg/kg	<5.0	----	<5.0	----	----
Sum of PFAS (WA DER List)	----	5.0	µg/kg	<5.0	----	<5.0	----	----
EP066S: PCB Surrogate								
Decachlorobiphenyl	2051-24-3	0.1	%	**94.6**	**85.0**	**106**	----	----

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH119_0.25	BUR_BH119_1.0	D01_20211216	TSC1	----
			Sampling date / time	16-Dec-2021 00:00	16-Dec-2021 00:00	16-Dec-2021 00:00	13-Dec-2021 00:00	---
Compound	CAS Number	LOR	Unit	ES2146476-029	ES2146476-030	ES2146476-031	ES2146476-036	----
				Result	Result	Result	Result	---
EP068S: Organochlorine Pesticide Surrogate								
Dibromo-DDE	21655-73-2	0.05	%	99.8	78.8	84.2	----	----
EP068T: Organophosphorus Pesticide Surrogate								
DEF	78-48-8	0.05	%	76.2	58.1	109	----	----
EP074S: VOC Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.5	%	105	98.5	130	----	----
Toluene-D8	2037-26-5	0.5	%	116	90.0	124	----	----
4-Bromofluorobenzene	460-00-4	0.5	%	107	100	116	----	----
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.5	%	90.1	82.9	88.1	----	----
2-Chlorophenol-D4	93951-73-6	0.5	%	94.0	89.0	95.2	----	----
2.4.6-Tribromophenol	118-79-6	0.5	%	81.0	72.3	85.5	----	----
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.5	%	105	97.8	106	----	----
Anthracene-d10	1719-06-8	0.5	%	96.4	87.8	92.3	----	----
4-Terphenyl-d14	1718-51-0	0.5	%	97.5	90.6	97.3	----	----
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	92.8	99.1	131	108	----
Toluene-D8	2037-26-5	0.2	%	121	88.9	123	110	----
4-Bromofluorobenzene	460-00-4	0.2	%	124	92.8	109	97.5	----
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	109	----	86.5	----	----
13C8-PFOA	----	0.0002	%	112	----	118	----	----

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Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	20211215_R01	20211216_R02	----	-----	-----
			Sampling date / time	15-Dec-2021 00:00	16-Dec-2021 00:00	----	----	----
Compound	CAS Number	LOR	Unit	ES2146476-005	ES2146476-033	--------	------	------
				Result	Result	----	----	----
EG020T: Total Metals by ICP-MS								
Arsenic	7440-38-2	0.001	mg/L	<0.001	<0.001	----	----	----
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	----	----	----
Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	----	----	----
Copper	7440-50-8	0.001	mg/L	<0.001	<0.001	----	----	----
Nickel	7440-02-0	0.001	mg/L	<0.001	<0.001	----	----	----
Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	----	----	----
Zinc	7440-66-6	0.005	mg/L	<0.005	<0.005	----	----	----
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	----	----	----
EP066: Polychlorinated Biphenyls (PCB)								
^ Total Polychlorinated biphenyls	----	1	µg/L	<1	<1	----	----	----
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.5	µg/L	<0.5	<0.5	----	----	----
Hexachlorobenzene (HCB)	118-74-1	0.5	µg/L	<0.5	<0.5	----	----	----
beta-BHC	319-85-7	0.5	µg/L	<0.5	<0.5	----	----	----
gamma-BHC	58-89-9	0.5	µg/L	<0.5	<0.5	----	----	----
delta-BHC	319-86-8	0.5	µg/L	<0.5	<0.5	----	----	----
Heptachlor	76-44-8	0.5	µg/L	<0.5	<0.5	----	----	----
Aldrin	309-00-2	0.5	µg/L	<0.5	<0.5	----	----	----
Heptachlor epoxide	1024-57-3	0.5	µg/L	<0.5	<0.5	----	----	----
trans-Chlordane	5103-74-2	0.5	µg/L	<0.5	<0.5	----	----	----
alpha-Endosulfan	959-98-8	0.5	µg/L	<0.5	<0.5	----	----	----
cis-Chlordane	5103-71-9	0.5	µg/L	<0.5	<0.5	----	----	----
Dieldrin	60-57-1	0.5	µg/L	<0.5	<0.5	----	----	----
4.4`-DDE	72-55-9	0.5	µg/L	<0.5	<0.5	----	----	----
Endrin	72-20-8	0.5	µg/L	<0.5	<0.5	----	----	----
beta-Endosulfan	33213-65-9	0.5	µg/L	<0.5	<0.5	----	----	----
4.4`-DDD	72-54-8	0.5	µg/L	<0.5	<0.5	----	----	----
Endrin aldehyde	7421-93-4	0.5	µg/L	<0.5	<0.5	----	----	----
Endosulfan sulfate	1031-07-8	0.5	µg/L	<0.5	<0.5	----	----	----
4.4`-DDT	50-29-3	2.0	µg/L	<2.0	<2.0	----	----	----
Endrin ketone	53494-70-5	0.5	µg/L	<0.5	<0.5	----	----	----
Methoxychlor	72-43-5	2.0	µg/L	<2.0	<2.0	----	----	----
^ Total Chlordane (sum)	----	0.5	µg/L	<0.5	<0.5	----	----	----

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Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	20211215_R01	20211216_R02	----	----	----
			Sampling date / time	15-Dec-2021 00:00	16-Dec-2021 00:00	----	---	---
Compound	CAS Number	LOR	Unit	ES2146476-005	ES2146476-033	--------	------	------
				Result	Result	---	---	---
EP068A: Organochlorine Pesticides (OC) - Continued								
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.5	µg/L	<0.5	<0.5	----	----	----
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.5	µg/L	<0.5	<0.5	----	----	----
EP068B: Organophosphorus Pesticides (OP)								
Dichlorvos	62-73-7	0.5	µg/L	<0.5	<0.5	----	----	----
Demeton-S-methyl	919-86-8	0.5	µg/L	<0.5	<0.5	----	----	----
Monocrotophos	6923-22-4	2.0	µg/L	<2.0	<2.0	----	----	----
Dimethoate	60-51-5	0.5	µg/L	<0.5	<0.5	----	----	----
Diazinon	333-41-5	0.5	µg/L	<0.5	<0.5	----	----	----
Chlorpyrifos-methyl	5598-13-0	0.5	µg/L	<0.5	<0.5	----	----	----
Parathion-methyl	298-00-0	2.0	µg/L	<2.0	<2.0	----	----	----
Malathion	121-75-5	0.5	µg/L	<0.5	<0.5	----	----	----
Fenthion	55-38-9	0.5	µg/L	<0.5	<0.5	----	----	----
Chlorpyrifos	2921-88-2	0.5	µg/L	<0.5	<0.5	----	----	----
Parathion	56-38-2	2.0	µg/L	<2.0	<2.0	----	----	----
Pirimphos-ethyl	23505-41-1	0.5	µg/L	<0.5	<0.5	----	----	----
Chlorfenvinphos	470-90-6	0.5	µg/L	<0.5	<0.5	----	----	----
Bromophos-ethyl	4824-78-6	0.5	µg/L	<0.5	<0.5	----	----	----
Fenamiphos	22224-92-6	0.5	µg/L	<0.5	<0.5	----	----	----
Prothiofos	34643-46-4	0.5	µg/L	<0.5	<0.5	----	----	----
Ethion	563-12-2	0.5	µg/L	<0.5	<0.5	----	----	----
Carbophenothion	786-19-6	0.5	µg/L	<0.5	<0.5	----	----	----
Azinphos Methyl	86-50-0	0.5	µg/L	<0.5	<0.5	----	----	----
EP074A: Monocyclic Aromatic Hydrocarbons								
Styrene	100-42-5	5	µg/L	<5	<5	----	----	----
Isopropylbenzene	98-82-8	5	µg/L	<5	<5	----	----	----
n-Propylbenzene	103-65-1	5	µg/L	<5	<5	----	----	----
1.3.5-Trimethylbenzene	108-67-8	5	µg/L	<5	<5	----	----	----
sec-Butylbenzene	135-98-8	5	µg/L	<5	<5	----	----	----
1.2.4-Trimethylbenzene	95-63-6	5	µg/L	<5	<5	----	----	----
tert-Butylbenzene	98-06-6	5	µg/L	<5	<5	----	----	----
p-Isopropyltoluene	99-87-6	5	µg/L	<5	<5	----	----	----
n-Butylbenzene	104-51-8	5	µg/L	<5	<5	----	----	----
EP074B: Oxygenated Compounds								

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Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	20211215_R01	20211216_R02	----	-----	-----
			Sampling date / time	15-Dec-2021 00:00	16-Dec-2021 00:00	----	----	----
Compound	CAS Number	LOR	Unit	ES2146476-005	ES2146476-033	--------	------	------
				Result	Result	----	----	----
EP074B: Oxygenated Compounds - Continued								
Vinyl Acetate	108-05-4	50	µg/L	<50	<50	----	----	----
2-Butanone (MEK)	78-93-3	50	µg/L	<50	<50	----	----	----
4-Methyl-2-pentanone (MIBK)	108-10-1	50	µg/L	<50	<50	----	----	----
2-Hexanone (MBK)	591-78-6	50	µg/L	<50	<50	----	----	----
EP074C: Sulfonated Compounds								
Carbon disulfide	75-15-0	5	µg/L	<5	<5	----	----	----
EP074D: Fumigants								
2.2-Dichloropropane	594-20-7	5	µg/L	<5	<5	----	----	----
1.2-Dichloropropane	78-87-5	5	µg/L	<5	<5	----	----	----
cis-1.3-Dichloropropylene	10061-01-5	5	µg/L	<5	<5	----	----	----
trans-1.3-Dichloropropylene	10061-02-6	5	µg/L	<5	<5	----	----	----
1.2-Dibromoethane (EDB)	106-93-4	5	µg/L	<5	<5	----	----	----
EP074E: Halogenated Aliphatic Compounds								
Dichlorodifluoromethane	75-71-8	50	µg/L	<50	<50	----	----	----
Chloromethane	74-87-3	50	µg/L	<50	<50	----	----	----
Vinyl chloride	75-01-4	50	µg/L	<50	<50	----	----	----
Bromomethane	74-83-9	50	µg/L	<50	<50	----	----	----
Chloroethane	75-00-3	50	µg/L	<50	<50	----	----	----
Trichlorofluoromethane	75-69-4	50	µg/L	<50	<50	----	----	----
1.1-Dichloroethene	75-35-4	5	µg/L	<5	<5	----	----	----
Iodomethane	74-88-4	5	µg/L	<5	<5	----	----	----
trans-1.2-Dichloroethene	156-60-5	5	µg/L	<5	<5	----	----	----
1.1-Dichloroethane	75-34-3	5	µg/L	<5	<5	----	----	----
cis-1.2-Dichloroethene	156-59-2	5	µg/L	<5	<5	----	----	----
1.1.1-Trichloroethane	71-55-6	5	µg/L	<5	<5	----	----	----
1.1-Dichloropropylene	563-58-6	5	µg/L	<5	<5	----	----	----
Carbon Tetrachloride	56-23-5	5	µg/L	<5	<5	----	----	----
1.2-Dichloroethane	107-06-2	5	µg/L	<5	<5	----	----	----
Trichloroethene	79-01-6	5	µg/L	<5	<5	----	----	----
Dibromomethane	74-95-3	5	µg/L	<5	<5	----	----	----
1.1.2-Trichloroethane	79-00-5	5	µg/L	<5	<5	----	----	----
1.3-Dichloropropane	142-28-9	5	µg/L	<5	<5	----	----	----
Tetrachloroethene	127-18-4	5	µg/L	<5	<5	----	----	----
1.1.1.2-Tetrachloroethane	630-20-6	5	µg/L	<5	<5	----	----	----

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Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	20211215_R01	20211216_R02	----	----	----
			Sampling date / time	15-Dec-2021 00:00	16-Dec-2021 00:00	----	---	---
Compound	CAS Number	LOR	Unit	ES2146476-005	ES2146476-033	--------	------	------
				Result	Result	---	---	---
EP074E: Halogenated Aliphatic Compounds - Continued								
trans-1.4-Dichloro-2-butene	110-57-6	5	µg/L	<5	<5	----	----	----
cis-1.4-Dichloro-2-butene	1476-11-5	5	µg/L	<5	<5	----	----	----
1.1.2.2-Tetrachloroethane	79-34-5	5	µg/L	<5	<5	----	----	----
1.2.3-Trichloropropane	96-18-4	5	µg/L	<5	<5	----	----	----
Pentachloroethane	76-01-7	5	µg/L	<5	<5	----	----	----
1.2-Dibromo-3-chloropropane	96-12-8	5	µg/L	<5	<5	----	----	----
Hexachlorobutadiene	87-68-3	5	µg/L	<5	<5	----	----	----
EP074F: Halogenated Aromatic Compounds								
Chlorobenzene	108-90-7	5	µg/L	<5	<5	----	----	----
Bromobenzene	108-86-1	5	µg/L	<5	<5	----	----	----
2-Chlorotoluene	95-49-8	5	µg/L	<5	<5	----	----	----
4-Chlorotoluene	106-43-4	5	µg/L	<5	<5	----	----	----
1.3-Dichlorobenzene	541-73-1	5	µg/L	<5	<5	----	----	----
1.4-Dichlorobenzene	106-46-7	5	µg/L	<5	<5	----	----	----
1.2-Dichlorobenzene	95-50-1	5	µg/L	<5	<5	----	----	----
1.2.4-Trichlorobenzene	120-82-1	5	µg/L	<5	<5	----	----	----
1.2.3-Trichlorobenzene	87-61-6	5	µg/L	<5	<5	----	----	----
EP074G: Trihalomethanes								
Chloroform	67-66-3	5	µg/L	<5	<5	----	----	----
Bromodichloromethane	75-27-4	5	µg/L	<5	<5	----	----	----
Dibromochloromethane	124-48-1	5	µg/L	<5	<5	----	----	----
Bromoform	75-25-2	5	µg/L	<5	<5	----	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	1.0	µg/L	<1.0	<1.0	----	----	----
Acenaphthylene	208-96-8	1.0	µg/L	<1.0	<1.0	----	----	----
Acenaphthene	83-32-9	1.0	µg/L	<1.0	<1.0	----	----	----
Fluorene	86-73-7	1.0	µg/L	<1.0	<1.0	----	----	----
Phenanthrene	85-01-8	1.0	µg/L	<1.0	<1.0	----	----	----
Anthracene	120-12-7	1.0	µg/L	<1.0	<1.0	----	----	----
Fluoranthene	206-44-0	1.0	µg/L	<1.0	<1.0	----	----	----
Pyrene	129-00-0	1.0	µg/L	<1.0	<1.0	----	----	----
Benz(a)anthracene	56-55-3	1.0	µg/L	<1.0	<1.0	----	----	----
Chrysene	218-01-9	1.0	µg/L	<1.0	<1.0	----	----	----
Benzo(b+j)fluoranthene	205-99-2 205-82-3	1.0	µg/L	<1.0	<1.0	----	----	----

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Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	20211215_R01	20211216_R02	----	-----	-----
			Sampling date / time	15-Dec-2021 00:00	16-Dec-2021 00:00	----	----	----
Compound	CAS Number	LOR	Unit	ES2146476-005	ES2146476-033	--------	------	------
				Result	Result	----	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued								
Benzo(k)fluoranthene	207-08-9	1.0	µg/L	<1.0	<1.0	----	----	----
Benzo(a)pyrene	50-32-8	0.5	µg/L	<0.5	<0.5	----	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	1.0	µg/L	<1.0	<1.0	----	----	----
Dibenz(a.h)anthracene	53-70-3	1.0	µg/L	<1.0	<1.0	----	----	----
Benzo(g.h.i)perylene	191-24-2	1.0	µg/L	<1.0	<1.0	----	----	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	µg/L	<0.5	<0.5	----	----	----
^ Benzo(a)pyrene TEQ (zero)	----	0.5	µg/L	<0.5	<0.5	----	----	----
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	20	µg/L	<20	<20	----	----	----
C10 - C14 Fraction	----	50	µg/L	<50	<50	----	----	----
C15 - C28 Fraction	----	100	µg/L	<100	<100	----	----	----
C29 - C36 Fraction	----	50	µg/L	<50	<50	----	----	----
^ C10 - C36 Fraction (sum)	----	50	µg/L	<50	<50	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	20	µg/L	<20	<20	----	----	----
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	µg/L	<20	<20	----	----	----
>C10 - C16 Fraction	----	100	µg/L	<100	<100	----	----	----
>C16 - C34 Fraction	----	100	µg/L	<100	<100	----	----	----
>C34 - C40 Fraction	----	100	µg/L	<100	<100	----	----	----
^ >C10 - C40 Fraction (sum)	----	100	µg/L	<100	<100	----	----	----
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	100	µg/L	<100	<100	----	----	----
EP080: BTEXN								
Benzene	71-43-2	1	µg/L	<1	<1	----	----	----
Toluene	108-88-3	2	µg/L	<2	<2	----	----	----
Ethylbenzene	100-41-4	2	µg/L	<2	<2	----	----	----
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	<2	----	----	----
ortho-Xylene	95-47-6	2	µg/L	<2	<2	----	----	----
^ Total Xylenes	----	2	µg/L	<2	<2	----	----	----
^ Sum of BTEX	----	1	µg/L	<1	<1	----	----	----
Naphthalene	91-20-3	5	µg/L	<5	<5	----	----	----
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	----	----	----

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Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	20211215_R01	20211216_R02	----	-----	-----
			Sampling date / time	15-Dec-2021 00:00	16-Dec-2021 00:00	----	----	----
Compound	CAS Number	LOR	Unit	ES2146476-005	ES2146476-033	--------	------	------
				Result	Result	----	----	----
EP231A: Perfluoroalkyl Sulfonic Acids - Continued								
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	----	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	----	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	----	----	----
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	----	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	----	----	----
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	----	----	----
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	----	----	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	----	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	----	----	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	----	----	----

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Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	20211215_R01	20211216_R02	----	-----	-----
				Sampling date / time	15-Dec-2021 00:00	16-Dec-2021 00:00	----	----	----
Compound	CAS Number	LOR	Unit		ES2146476-005	ES2146476-033	--------	------	------
					Result	Result	----	----	----
EP231C: Perfluoroalkyl Sulfonamides - Continued									
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L		<0.05	<0.05	----	----	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L		<0.02	<0.02	----	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L		<0.02	<0.02	----	----	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L		<0.05	<0.05	----	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L		<0.05	<0.05	----	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L		<0.05	<0.05	----	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L		<0.05	<0.05	----	----	----
EP231P: PFAS Sums									
Sum of PFAS	----	0.01	µg/L		<0.01	<0.01	----	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L		<0.01	<0.01	----	----	----
Sum of PFAS (WA DER List)	----	0.01	µg/L		<0.01	<0.01	----	----	----
EP066S: PCB Surrogate									
Decachlorobiphenyl	2051-24-3	1	%		73.0	72.2	----	----	----
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.5	%		70.8	97.6	----	----	----
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.5	%		70.4	92.1	----	----	----
EP074S: VOC Surrogates									
1.2-Dichloroethane-D4	17060-07-0	5	%		83.9	92.5	----	----	----
Toluene-D8	2037-26-5	5	%		94.5	108	----	----	----
4-Bromofluorobenzene	460-00-4	5	%		85.4	98.0	----	----	----
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	1.0	%		19.1	27.5	----	----	----
2-Chlorophenol-D4	93951-73-6	1.0	%		44.0	62.1	----	----	----

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Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	20211215_R01	20211216_R02	----	-----	-----
			Sampling date / time	15-Dec-2021 00:00	16-Dec-2021 00:00	----	---	---
Compound	CAS Number	LOR	Unit	ES2146476-005	ES2146476-033	--------	------	------
				Result	Result	---	---	---
EP075(SIM)S: Phenolic Compound Surrogates - Continued								
2.4.6-Tribromophenol	118-79-6	1.0	%	32.4	51.3	----	----	----
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	1.0	%	66.5	86.5	----	----	----
Anthracene-d10	1719-06-8	1.0	%	71.0	77.4	----	----	----
4-Terphenyl-d14	1718-51-0	1.0	%	79.6	90.5	----	----	----
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	2	%	98.6	111	----	----	----
Toluene-D8	2037-26-5	2	%	84.7	97.1	----	----	----
4-Bromofluorobenzene	460-00-4	2	%	82.9	95.4	----	----	----
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.02	%	91.3	88.8	----	----	----
13C8-PFOA	----	0.02	%	97.2	95.7	----	----	----

Analytical Results

Descriptive Results

Sub-Matrix: **SOIL**

Method: Compound	Sample ID - Sampling date / time	Analytical Results
EA200: AS 4964 - 2004 Identification of Asbestos in Soils		
EA200: Description	BUR_BH105_0.1 - 15-Dec-2021 00:00	Soil sample.
EA200: Description	BUR_BH103_0.1 - 16-Dec-2021 00:00	Soil sample.
EA200: Description	BUR_BH104_0.2 - 16-Dec-2021 00:00	Soil sample.
EA200: Description	BUR_BH118_0.25 - 16-Dec-2021 00:00	Soil sample.
EA200: Description	BUR_BH119_0.25 - 16-Dec-2021 00:00	Soil sample.

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Surrogate Control Limits

Sub-Matrix: **SOIL**

Compound	CAS Number	Recovery Limits (%) Low	High
EP066S: PCB Surrogate			
Decachlorobiphenyl	2051-24-3	39	149
EP068S: Organochlorine Pesticide Surrogate			
Dibromo-DDE	21655-73-2	49	147
EP068T: Organophosphorus Pesticide Surrogate			
DEF	78-48-8	35	143
EP074S: VOC Surrogates			
1.2-Dichloroethane-D4	17060-07-0	64	130
Toluene-D8	2037-26-5	66	136
4-Bromofluorobenzene	460-00-4	60	122
EP075(SIM)S: Phenolic Compound Surrogates			
Phenol-d6	13127-88-3	63	123
2-Chlorophenol-D4	93951-73-6	66	122
2.4.6-Tribromophenol	118-79-6	40	138
EP075(SIM)T: PAH Surrogates			
2-Fluorobiphenyl	321-60-8	70	122
Anthracene-d10	1719-06-8	66	128
4-Terphenyl-d14	1718-51-0	65	129
EP080S: TPH(V)/BTEX Surrogates			
1.2-Dichloroethane-D4	17060-07-0	73	133
Toluene-D8	2037-26-5	74	132
4-Bromofluorobenzene	460-00-4	72	130
EP231S: PFAS Surrogate			
13C4-PFOS	----	60	120
13C8-PFOA	----	60	120

Sub-Matrix: **WATER**

Compound	CAS Number	Recovery Limits (%) Low	High
EP066S: PCB Surrogate			
Decachlorobiphenyl	2051-24-3	45	134
EP068S: Organochlorine Pesticide Surrogate			
Dibromo-DDE	21655-73-2	67	111
EP068T: Organophosphorus Pesticide Surrogate			
DEF	78-48-8	67	111
EP074S: VOC Surrogates			
1.2-Dichloroethane-D4	17060-07-0	78	133
Toluene-D8	2037-26-5	79	129
4-Bromofluorobenzene	460-00-4	81	124

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Sub-Matrix: **WATER**

Compound	CAS Number	Recovery Limits (%) Low	High
EP075(SIM)S: Phenolic Compound Surrogates			
Phenol-d6	13127-88-3	10	44
2-Chlorophenol-D4	93951-73-6	14	94
2.4.6-Tribromophenol	118-79-6	17	125
EP075(SIM)T: PAH Surrogates			
2-Fluorobiphenyl	321-60-8	20	104
Anthracene-d10	1719-06-8	27	113
4-Terphenyl-d14	1718-51-0	32	112
EP080S: TPH(V)/BTEX Surrogates			
1.2-Dichloroethane-D4	17060-07-0	71	137
Toluene-D8	2037-26-5	79	131
4-Bromofluorobenzene	460-00-4	70	128
EP231S: PFAS Surrogate			
13C4-PFOS	----	60	120
13C8-PFOA	----	60	120

Inter-Laboratory Testing

Analysis conducted by ALS Newcastle, NATA accreditation no. 825, site no. 1656 (Chemistry) 9854 (Biology).

(SOIL) EA200: AS 4964 - 2004 Identification of Asbestos in Soils

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ALS Environmental

QUALITY CONTROL REPORT

Work Order	: **ES2146476**	Page	: 1 of 33
Amendment	: **1**		
Client	: **ENVIRONMENTAL RESOURCES MANAGEMENT (ERM)**	Laboratory	: Environmental Division Sydney
Contact	: MS JESSICA LAWRENCE	Contact	: Customer Services ES
Address	: LEVEL 15 309 KENT STREET SYDNEY NSW AUSTRALIA 2000	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: +61 02 8584 8888	Telephone	: +61-2-8784 8555
Project	: 0577577-Burwood	Date Samples Received	: 17-Dec-2021
Order number	: ----	Date Analysis Commenced	: 20-Dec-2021
C-O-C number	: ----	Issue Date	: 02-Feb-2022
Sampler	: MADUSHANI BOLONGHE, TRISTAN RODRIGUES		
Site	: ----		
Quote number	: EN/114		
No. of samples received	: 37		
No. of samples analysed	: 21		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Alana Smylie	Asbestos Identifier	Newcastle - Asbestos, Mayfield West, NSW
Edwandy Fadjar	Organic Coordinator	Sydney Organics, Smithfield, NSW
Franco Lentini	LCMS Coordinator	Sydney Inorganics, Smithfield, NSW
Franco Lentini	LCMS Coordinator	Sydney Organics, Smithfield, NSW
Ivan Taylor	Analyst	Sydney Inorganics, Smithfield, NSW
Wisam Marassa	Inorganics Coordinator	Sydney Inorganics, Smithfield, NSW

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General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis. Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Key : Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot
CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
RPD = Relative Percentage Difference
# = Indicates failed QC

Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 4093741)									
ES2146476-001	BUR_BH105_0.1	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	<2	3	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	6	9	31.9	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	80	86	7.2	0% - 50%
ES2146476-023	BUR_BH104_4.0	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	9	8	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	16	10	44.7	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	8	9	19.1	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	42	35	18.5	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	20	24	16.1	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	92	62	37.9	0% - 50%
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 4093748)									
ES2145652-003	Anonymous	EA055: Moisture Content	----	0.1	%	30.1	28.1	7.0	0% - 20%
ES2146476-010	BUR_BH102_2.0	EA055: Moisture Content	----	0.1	%	15.4	15.9	3.0	0% - 50%
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 4093749)									
ES2146476-027	BUR_BH118_1.5	EA055: Moisture Content	---	0.1	%	25.3	24.8	2.1	0% - 20%
ES2146476-031	D01_20211216	EA055: Moisture Content	---	0.1	%	20.3	21.0	3.1	0% - 20%
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 4093744)									
ES2146476-001	BUR_BH105_0.1	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
ES2146476-023	BUR_BH104_4.0	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit

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Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP066: Polychlorinated Biphenyls (PCB) (QC Lot: 4088004)									
ES2146476-001	BUR_BH105_0.1	EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
ES2146476-023	BUR_BH104_4.0	EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP068A: Organochlorine Pesticides (OC) (QC Lot: 4088003)									
ES2146476-001	BUR_BH105_0.1	EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
ES2146476-023	BUR_BH104_4.0	EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit

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Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP068A: Organochlorine Pesticides (OC) (QC Lot: 4088003) - continued									
ES2146476-023	BUR_BH104_4.0	EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
EP068B: Organophosphorus Pesticides (OP) (QC Lot: 4088003)									
ES2146476-001	BUR_BH105_0.1	EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
ES2146476-023	BUR_BH104_4.0	EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit

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Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP068B: Organophosphorus Pesticides (OP) (QC Lot: 4088003) - continued									
ES2146476-023	BUR_BH104_4.0	EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
EP074A: Monocyclic Aromatic Hydrocarbons (QC Lot: 4089907)									
ES2146476-001	BUR_BH105_0.1	EP074: Styrene	100-42-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Isopropylbenzene	98-82-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: n-Propylbenzene	103-65-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: sec-Butylbenzene	135-98-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: tert-Butylbenzene	98-06-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: p-Isopropyltoluene	99-87-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: n-Butylbenzene	104-51-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
ES2146476-030	BUR_BH119_1.0	EP074: Styrene	100-42-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Isopropylbenzene	98-82-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: n-Propylbenzene	103-65-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: sec-Butylbenzene	135-98-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: tert-Butylbenzene	98-06-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: p-Isopropyltoluene	99-87-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: n-Butylbenzene	104-51-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP074B: Oxygenated Compounds (QC Lot: 4089907)									
ES2146476-001	BUR_BH105_0.1	EP074: Vinyl Acetate	108-05-4	5	mg/kg	<5	<5	0.0	No Limit
		EP074: 2-Butanone (MEK)	78-93-3	5	mg/kg	<5	<5	0.0	No Limit
		EP074: 4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	<5	<5	0.0	No Limit
		EP074: 2-Hexanone (MBK)	591-78-6	5	mg/kg	<5	<5	0.0	No Limit
ES2146476-030	BUR_BH119_1.0	EP074: Vinyl Acetate	108-05-4	5	mg/kg	<5	<5	0.0	No Limit
		EP074: 2-Butanone (MEK)	78-93-3	5	mg/kg	<5	<5	0.0	No Limit
		EP074: 4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	<5	<5	0.0	No Limit
		EP074: 2-Hexanone (MBK)	591-78-6	5	mg/kg	<5	<5	0.0	No Limit
EP074C: Sulfonated Compounds (QC Lot: 4089907)									
ES2146476-001	BUR_BH105_0.1	EP074: Carbon disulfide	75-15-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
ES2146476-030	BUR_BH119_1.0	EP074: Carbon disulfide	75-15-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP074D: Fumigants (QC Lot: 4089907)									
ES2146476-001	BUR_BH105_0.1	EP074: 2.2-Dichloropropane	594-20-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dichloropropane	78-87-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

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Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP074D: Fumigants (QC Lot: 4089907) - continued									
ES2146476-001	BUR_BH105_0.1	EP074: trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
ES2146476-030	BUR_BH119_1.0	EP074: 2.2-Dichloropropane	594-20-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dichloropropane	78-87-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP074E: Halogenated Aliphatic Compounds (QC Lot: 4089907)									
ES2146476-001	BUR_BH105_0.1	EP074: 1.1-Dichloroethene	75-35-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Iodomethane	74-88-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1-Dichloroethane	75-34-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1-Dichloropropylene	563-58-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Carbon Tetrachloride	56-23-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dichloroethane	107-06-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Trichloroethene	79-01-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Dibromomethane	74-95-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.3-Dichloropropane	142-28-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Tetrachloroethene	127-18-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Pentachloroethane	76-01-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Dichlorodifluoromethane	75-71-8	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Chloromethane	74-87-3	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Vinyl chloride	75-01-4	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Bromomethane	74-83-9	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Chloroethane	75-00-3	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Trichlorofluoromethane	75-69-4	5	mg/kg	<5	<5	0.0	No Limit
ES2146476-030	BUR_BH119_1.0	EP074: 1.1-Dichloroethene	75-35-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Iodomethane	74-88-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1-Dichloroethane	75-34-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

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Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP074E: Halogenated Aliphatic Compounds (QC Lot: 4089907) - continued									
ES2146476-030	BUR_BH119_1.0	EP074: cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1-Dichloropropylene	563-58-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Carbon Tetrachloride	56-23-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dichloroethane	107-06-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Trichloroethene	79-01-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Dibromomethane	74-95-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.3-Dichloropropane	142-28-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Tetrachloroethene	127-18-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Pentachloroethane	76-01-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Dichlorodifluoromethane	75-71-8	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Chloromethane	74-87-3	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Vinyl chloride	75-01-4	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Bromomethane	74-83-9	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Chloroethane	75-00-3	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Trichlorofluoromethane	75-69-4	5	mg/kg	<5	<5	0.0	No Limit
EP074F: Halogenated Aromatic Compounds (QC Lot: 4089907)									
ES2146476-001	BUR_BH105_0.1	EP074: Chlorobenzene	108-90-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Bromobenzene	108-86-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 2-Chlorotoluene	95-49-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 4-Chlorotoluene	106-43-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
ES2146476-030	BUR_BH119_1.0	EP074: Chlorobenzene	108-90-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Bromobenzene	108-86-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 2-Chlorotoluene	95-49-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 4-Chlorotoluene	106-43-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

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Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP074F: Halogenated Aromatic Compounds (QC Lot: 4089907) - continued									
ES2146476-030	BUR_BH119_1.0	EP074: 1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP074G: Trihalomethanes (QC Lot: 4089907)									
ES2146476-001	BUR_BH105_0.1	EP074: Chloroform	67-66-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Bromodichloromethane	75-27-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Dibromochloromethane	124-48-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Bromoform	75-25-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
ES2146476-030	BUR_BH119_1.0	EP074: Chloroform	67-66-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Bromodichloromethane	75-27-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Dibromochloromethane	124-48-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Bromoform	75-25-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 4088002)									
ES2146476-001	BUR_BH105_0.1	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
ES2146476-023	BUR_BH104_4.0	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

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Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 4088002) - continued									
ES2146476-023	BUR_BH104_4.0	EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4088001)									
ES2146476-001	BUR_BH105_0.1	EP071: C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
ES2146476-023	BUR_BH104_4.0	EP071: C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4089906)									
ES2146476-001	BUR_BH105_0.1	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
ES2146476-030	BUR_BH119_1.0	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4088001)									
ES2146476-001	BUR_BH105_0.1	EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
ES2146476-023	BUR_BH104_4.0	EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4089906)									
ES2146476-001	BUR_BH105_0.1	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
ES2146476-030	BUR_BH119_1.0	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
EP080: BTEXN (QC Lot: 4089906)									
ES2146476-001	BUR_BH105_0.1	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

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Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP080: BTEXN (QC Lot: 4089906) - continued									
ES2146476-001	BUR_BH105_0.1	EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
ES2146476-030	BUR_BH119_1.0	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 4087872)									
ES2145948-003	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
ES2146348-008	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4087872)									
ES2145948-003	Anonymous	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	<0.001	0.0	No Limit
ES2146348-008	Anonymous	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4087872) - continued									
ES2146348-008	Anonymous	EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	<0.001	0.0	No Limit
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4087872)									
ES2145948-003	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
ES2146348-008	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4087872)									
ES2145948-003	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit

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Sub-Matrix: **SOIL**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4087872) - continued									
ES2146348-008	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit

Sub-Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EG020T: Total Metals by ICP-MS (QC Lot: 4092227)									
ES2145725-021	Anonymous	EG020A-T: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
		EG020A-T: Arsenic	7440-38-2	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Copper	7440-50-8	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Nickel	7440-02-0	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Zinc	7440-66-6	0.005	mg/L	<0.005	<0.005	0.0	No Limit
ES2146442-002	Anonymous	EG020A-T: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
		EG020A-T: Arsenic	7440-38-2	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Copper	7440-50-8	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Nickel	7440-02-0	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Zinc	7440-66-6	0.005	mg/L	<0.005	<0.005	0.0	No Limit
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 4092248)									
ES2146119-001	Anonymous	EG035T: Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
ES2146288-003	Anonymous	EG035T: Mercury	7439-97-6	0.0001	mg/L	0.0007	0.0007	0.0	No Limit
EP074A: Monocyclic Aromatic Hydrocarbons (QC Lot: 4096752)									
ES2146476-005	20211215_R01	EP074: Styrene	100-42-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: Isopropylbenzene	98-82-8	5	µg/L	<5	<5	0.0	No Limit
		EP074: n-Propylbenzene	103-65-1	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.3.5-Trimethylbenzene	108-67-8	5	µg/L	<5	<5	0.0	No Limit
		EP074: sec-Butylbenzene	135-98-8	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2.4-Trimethylbenzene	95-63-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: tert-Butylbenzene	98-06-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: p-Isopropyltoluene	99-87-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: n-Butylbenzene	104-51-8	5	µg/L	<5	<5	0.0	No Limit
ES2146157-001	Anonymous	EP074: Styrene	100-42-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: Isopropylbenzene	98-82-8	5	µg/L	<5	<5	0.0	No Limit

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Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP074A: Monocyclic Aromatic Hydrocarbons (QC Lot: 4096752) - continued									
ES2146157-001	Anonymous	EP074: n-Propylbenzene	103-65-1	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.3.5-Trimethylbenzene	108-67-8	5	µg/L	<5	<5	0.0	No Limit
		EP074: sec-Butylbenzene	135-98-8	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2.4-Trimethylbenzene	95-63-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: tert-Butylbenzene	98-06-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: p-Isopropyltoluene	99-87-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: n-Butylbenzene	104-51-8	5	µg/L	<5	<5	0.0	No Limit
EP074B: Oxygenated Compounds (QC Lot: 4096752)									
ES2146476-005	20211215_R01	EP074: Vinyl Acetate	108-05-4	50	µg/L	<50	<50	0.0	No Limit
		EP074: 2-Butanone (MEK)	78-93-3	50	µg/L	<50	<50	0.0	No Limit
		EP074: 4-Methyl-2-pentanone (MIBK)	108-10-1	50	µg/L	<50	<50	0.0	No Limit
		EP074: 2-Hexanone (MBK)	591-78-6	50	µg/L	<50	<50	0.0	No Limit
ES2146157-001	Anonymous	EP074: Vinyl Acetate	108-05-4	50	µg/L	<50	<50	0.0	No Limit
		EP074: 2-Butanone (MEK)	78-93-3	50	µg/L	<50	<50	0.0	No Limit
		EP074: 4-Methyl-2-pentanone (MIBK)	108-10-1	50	µg/L	<50	<50	0.0	No Limit
		EP074: 2-Hexanone (MBK)	591-78-6	50	µg/L	<50	<50	0.0	No Limit
EP074C: Sulfonated Compounds (QC Lot: 4096752)									
ES2146476-005	20211215_R01	EP074: Carbon disulfide	75-15-0	5	µg/L	<5	<5	0.0	No Limit
ES2146157-001	Anonymous	EP074: Carbon disulfide	75-15-0	5	µg/L	<5	<5	0.0	No Limit
EP074D: Fumigants (QC Lot: 4096752)									
ES2146476-005	20211215_R01	EP074: 2.2-Dichloropropane	594-20-7	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2-Dichloropropane	78-87-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: cis-1.3-Dichloropropylene	10061-01-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: trans-1.3-Dichloropropylene	10061-02-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2-Dibromoethane (EDB)	106-93-4	5	µg/L	<5	<5	0.0	No Limit
ES2146157-001	Anonymous	EP074: 2.2-Dichloropropane	594-20-7	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2-Dichloropropane	78-87-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: cis-1.3-Dichloropropylene	10061-01-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: trans-1.3-Dichloropropylene	10061-02-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2-Dibromoethane (EDB)	106-93-4	5	µg/L	<5	<5	0.0	No Limit
EP074E: Halogenated Aliphatic Compounds (QC Lot: 4096752)									
ES2146476-005	20211215_R01	EP074: 1.1-Dichloroethene	75-35-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: Iodomethane	74-88-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: trans-1.2-Dichloroethene	156-60-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1-Dichloroethane	75-34-3	5	µg/L	<5	<5	0.0	No Limit
		EP074: cis-1.2-Dichloroethene	156-59-2	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1.1-Trichloroethane	71-55-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1-Dichloropropylene	563-58-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: Carbon Tetrachloride	56-23-5	5	µg/L	<5	<5	0.0	No Limit

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Sub-Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP074E: Halogenated Aliphatic Compounds (QC Lot: 4096752) - continued									
ES2146476-005	20211215_R01	EP074: 1.2-Dichloroethane	107-06-2	5	µg/L	<5	<5	0.0	No Limit
		EP074: Trichloroethene	79-01-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: Dibromomethane	74-95-3	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1.2-Trichloroethane	79-00-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.3-Dichloropropane	142-28-9	5	µg/L	<5	<5	0.0	No Limit
		EP074: Tetrachloroethene	127-18-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1.1.2-Tetrachloroethane	630-20-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: trans-1.4-Dichloro-2-butene	110-57-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: cis-1.4-Dichloro-2-butene	1476-11-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1.2.2-Tetrachloroethane	79-34-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2.3-Trichloropropane	96-18-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: Pentachloroethane	76-01-7	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2-Dibromo-3-chloropropane	96-12-8	5	µg/L	<5	<5	0.0	No Limit
		EP074: Hexachlorobutadiene	87-68-3	5	µg/L	<5	<5	0.0	No Limit
		EP074: Dichlorodifluoromethane	75-71-8	50	µg/L	<50	<50	0.0	No Limit
		EP074: Chloromethane	74-87-3	50	µg/L	<50	<50	0.0	No Limit
		EP074: Vinyl chloride	75-01-4	50	µg/L	<50	<50	0.0	No Limit
		EP074: Bromomethane	74-83-9	50	µg/L	<50	<50	0.0	No Limit
		EP074: Chloroethane	75-00-3	50	µg/L	<50	<50	0.0	No Limit
		EP074: Trichlorofluoromethane	75-69-4	50	µg/L	<50	<50	0.0	No Limit
ES2146157-001	Anonymous	EP074: 1.1-Dichloroethene	75-35-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: Iodomethane	74-88-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: trans-1.2-Dichloroethene	156-60-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1-Dichloroethane	75-34-3	5	µg/L	<5	<5	0.0	No Limit
		EP074: cis-1.2-Dichloroethene	156-59-2	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1.1-Trichloroethane	71-55-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1-Dichloropropylene	563-58-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: Carbon Tetrachloride	56-23-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2-Dichloroethane	107-06-2	5	µg/L	<5	<5	0.0	No Limit
		EP074: Trichloroethene	79-01-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: Dibromomethane	74-95-3	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1.2-Trichloroethane	79-00-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.3-Dichloropropane	142-28-9	5	µg/L	<5	<5	0.0	No Limit
		EP074: Tetrachloroethene	127-18-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1.1.2-Tetrachloroethane	630-20-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: trans-1.4-Dichloro-2-butene	110-57-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: cis-1.4-Dichloro-2-butene	1476-11-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1.2.2-Tetrachloroethane	79-34-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2.3-Trichloropropane	96-18-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: Pentachloroethane	76-01-7	5	µg/L	<5	<5	0.0	No Limit

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Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP074E: Halogenated Aliphatic Compounds (QC Lot: 4096752) - continued									
ES2146157-001	Anonymous	EP074: 1.2-Dibromo-3-chloropropane	96-12-8	5	µg/L	<5	<5	0.0	No Limit
		EP074: Hexachlorobutadiene	87-68-3	5	µg/L	<5	<5	0.0	No Limit
		EP074: Dichlorodifluoromethane	75-71-8	50	µg/L	<50	<50	0.0	No Limit
		EP074: Chloromethane	74-87-3	50	µg/L	<50	<50	0.0	No Limit
		EP074: Vinyl chloride	75-01-4	50	µg/L	<50	<50	0.0	No Limit
		EP074: Bromomethane	74-83-9	50	µg/L	<50	<50	0.0	No Limit
		EP074: Chloroethane	75-00-3	50	µg/L	<50	<50	0.0	No Limit
		EP074: Trichlorofluoromethane	75-69-4	50	µg/L	<50	<50	0.0	No Limit
EP074F: Halogenated Aromatic Compounds (QC Lot: 4096752)									
ES2146476-005	20211215_R01	EP074: Chlorobenzene	108-90-7	5	µg/L	<5	<5	0.0	No Limit
		EP074: Bromobenzene	108-86-1	5	µg/L	<5	<5	0.0	No Limit
		EP074: 2-Chlorotoluene	95-49-8	5	µg/L	<5	<5	0.0	No Limit
		EP074: 4-Chlorotoluene	106-43-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.3-Dichlorobenzene	541-73-1	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.4-Dichlorobenzene	106-46-7	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2-Dichlorobenzene	95-50-1	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2.4-Trichlorobenzene	120-82-1	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2.3-Trichlorobenzene	87-61-6	5	µg/L	<5	<5	0.0	No Limit
ES2146157-001	Anonymous	EP074: Chlorobenzene	108-90-7	5	µg/L	<5	<5	0.0	No Limit
		EP074: Bromobenzene	108-86-1	5	µg/L	<5	<5	0.0	No Limit
		EP074: 2-Chlorotoluene	95-49-8	5	µg/L	<5	<5	0.0	No Limit
		EP074: 4-Chlorotoluene	106-43-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.3-Dichlorobenzene	541-73-1	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.4-Dichlorobenzene	106-46-7	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2-Dichlorobenzene	95-50-1	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2.4-Trichlorobenzene	120-82-1	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2.3-Trichlorobenzene	87-61-6	5	µg/L	<5	<5	0.0	No Limit
EP074G: Trihalomethanes (QC Lot: 4096752)									
ES2146476-005	20211215_R01	EP074: Chloroform	67-66-3	5	µg/L	<5	<5	0.0	No Limit
		EP074: Bromodichloromethane	75-27-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: Dibromochloromethane	124-48-1	5	µg/L	<5	<5	0.0	No Limit
		EP074: Bromoform	75-25-2	5	µg/L	<5	<5	0.0	No Limit
ES2146157-001	Anonymous	EP074: Chloroform	67-66-3	5	µg/L	<5	<5	0.0	No Limit
		EP074: Bromodichloromethane	75-27-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: Dibromochloromethane	124-48-1	5	µg/L	<5	<5	0.0	No Limit
		EP074: Bromoform	75-25-2	5	µg/L	<5	<5	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4096751)									
ES2146476-005	20211215_R01	EP080: C6 - C9 Fraction	---	20	µg/L	<20	<20	0.0	No Limit
ES2146157-001	Anonymous	EP080: C6 - C9 Fraction	---	20	µg/L	<20	<20	0.0	No Limit

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Sub-Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4096751)									
ES2146476-005	20211215_R01	EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	<20	0.0	No Limit
ES2146157-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	<20	0.0	No Limit
EP080: BTEXN (QC Lot: 4096751)									
ES2146476-005	20211215_R01	EP080: Benzene	71-43-2	1	µg/L	<1	<1	0.0	No Limit
		EP080: Toluene	108-88-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	2	µg/L	<2	<2	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	2	µg/L	<2	<2	0.0	No Limit
		EP080: Naphthalene	91-20-3	5	µg/L	<5	<5	0.0	No Limit
ES2146157-001	Anonymous	EP080: Benzene	71-43-2	1	µg/L	<1	<1	0.0	No Limit
		EP080: Toluene	108-88-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	2	µg/L	<2	<2	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	2	µg/L	<2	<2	0.0	No Limit
		EP080: Naphthalene	91-20-3	5	µg/L	<5	<5	0.0	No Limit
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 4096596)									
ES2146476-005	20211215_R01	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
ES2146476-033	20211216_R02	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4096596)									
ES2146476-005	20211215_R01	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit

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Sub-Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4096596) - continued									
ES2146476-005	20211215_R01	EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	0.0	No Limit
ES2146476-033	20211216_R02	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	0.0	No Limit
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4096596)									
ES2146476-005	20211215_R01	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
ES2146476-033	20211216_R02	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4096596)									

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Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4096596) - continued									
ES2146476-005	20211215_R01	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	0.0	No Limit
ES2146476-033	20211216_R02	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231P: PFAS Sums (QC Lot: 4096596)									
ES2146476-005	20211215_R01	EP231X: Sum of PFAS	----	0.01	µg/L	<0.01	<0.01	0.0	No Limit
ES2146476-033	20211216_R02	EP231X: Sum of PFAS	----	0.01	µg/L	<0.01	<0.01	0.0	No Limit

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Method Blank (MB) and Laboratory Control Sample (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Sample (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

Sub-Matrix: **SOIL**

				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4093741)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	121.1 mg/kg	101	88.0	113
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	0.74 mg/kg	81.9	70.0	130
EG005T: Chromium	7440-47-3	2	mg/kg	<2	19.6 mg/kg	109	68.0	132
EG005T: Copper	7440-50-8	5	mg/kg	<5	52.9 mg/kg	104	89.0	111
EG005T: Lead	7439-92-1	5	mg/kg	<5	60.8 mg/kg	95.7	82.0	119
EG005T: Nickel	7440-02-0	2	mg/kg	<2	15.3 mg/kg	97.7	80.0	120
EG005T: Zinc	7440-66-6	5	mg/kg	<5	139.3 mg/kg	92.9	66.0	133
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4093744)								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.087 mg/kg	86.2	70.0	125
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 4088004)								
EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	1 mg/kg	85.7	62.0	126
EP068A: Organochlorine Pesticides (OC) (QCLot: 4088003)								
EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	0.5 mg/kg	94.3	69.0	113
EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	0.5 mg/kg	93.6	65.0	117
EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	0.5 mg/kg	98.8	67.0	119
EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	0.5 mg/kg	95.8	68.0	116
EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	102	65.0	117
EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	0.5 mg/kg	92.2	67.0	115
EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	0.5 mg/kg	96.0	69.0	115
EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	0.5 mg/kg	95.5	62.0	118
EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	0.5 mg/kg	94.9	63.0	117
EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	0.5 mg/kg	96.8	66.0	116
EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	0.5 mg/kg	92.7	64.0	116
EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	0.5 mg/kg	98.1	66.0	116
EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	0.5 mg/kg	96.5	67.0	115
EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	0.5 mg/kg	93.5	67.0	123
EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	0.5 mg/kg	97.2	69.0	115
EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	0.5 mg/kg	97.1	69.0	121
EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	0.5 mg/kg	86.0	56.0	120
EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	0.5 mg/kg	92.0	62.0	124
EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	0.5 mg/kg	88.9	66.0	120
EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	0.5 mg/kg	96.1	64.0	122
EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	0.5 mg/kg	89.8	54.0	130
EP068B: Organophosphorus Pesticides (OP) (QCLot: 4088003)								

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Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report		
				Result	Spike Concentration	Spike Recovery (%)	Acceptable Limits (%)
						LCS	Low	High
EP068B: Organophosphorus Pesticides (OP) (QCLot: 4088003) - continued								
EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	0.5 mg/kg	79.2	59.0	119
EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	88.3	62.0	128
EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	0.5 mg/kg	78.9	54.0	126
EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	0.5 mg/kg	94.9	67.0	119
EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	0.5 mg/kg	98.6	70.0	120
EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	0.5 mg/kg	89.4	72.0	120
EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	0.5 mg/kg	85.5	68.0	120
EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	0.5 mg/kg	93.7	68.0	122
EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	0.5 mg/kg	91.4	69.0	117
EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	0.5 mg/kg	94.3	76.0	118
EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	0.5 mg/kg	91.7	64.0	122
EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	0.5 mg/kg	90.7	70.0	116
EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	0.5 mg/kg	94.5	69.0	121
EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	0.5 mg/kg	87.0	66.0	118
EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	0.5 mg/kg	98.1	68.0	124
EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	0.5 mg/kg	94.5	62.0	112
EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	0.5 mg/kg	91.7	68.0	120
EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	0.5 mg/kg	84.6	65.0	127
EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	0.5 mg/kg	87.3	41.0	123
EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 4089907)								
EP074: Styrene	100-42-5	0.5	mg/kg	<0.5	1 mg/kg	98.5	67.0	113
EP074: Isopropylbenzene	98-82-8	0.5	mg/kg	<0.5	1 mg/kg	94.0	65.0	117
EP074: n-Propylbenzene	103-65-1	0.5	mg/kg	<0.5	1 mg/kg	95.1	66.0	122
EP074: 1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	<0.5	1 mg/kg	96.1	68.0	118
EP074: sec-Butylbenzene	135-98-8	0.5	mg/kg	<0.5	1 mg/kg	97.4	69.0	119
EP074: 1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	<0.5	1 mg/kg	95.2	69.0	117
EP074: tert-Butylbenzene	98-06-6	0.5	mg/kg	<0.5	1 mg/kg	97.0	69.0	115
EP074: p-Isopropyltoluene	99-87-6	0.5	mg/kg	<0.5	1 mg/kg	98.4	66.0	118
EP074: n-Butylbenzene	104-51-8	0.5	mg/kg	<0.5	1 mg/kg	97.5	59.0	125
EP074B: Oxygenated Compounds (QCLot: 4089907)								
EP074: Vinyl Acetate	108-05-4	5	mg/kg	<5	10 mg/kg	97.9	29.6	156
EP074: 2-Butanone (MEK)	78-93-3	5	mg/kg	<5	10 mg/kg	101	58.0	136
EP074: 4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	<5	10 mg/kg	96.1	62.0	132
EP074: 2-Hexanone (MBK)	591-78-6	5	mg/kg	<5	10 mg/kg	98.9	54.0	136
EP074C: Sulfonated Compounds (QCLot: 4089907)								
EP074: Carbon disulfide	75-15-0	0.5	mg/kg	<0.5	1 mg/kg	96.6	54.0	126
EP074D: Fumigants (QCLot: 4089907)								
EP074: 2.2-Dichloropropane	594-20-7	0.5	mg/kg	<0.5	1 mg/kg	98.8	60.0	126

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Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
				Result	Spike Concentration	Spike Recovery (%)	Acceptable Limits (%)	
						LCS	Low	High
EP074D: Fumigants (QCLot: 4089907) - continued								
EP074: 1.2-Dichloropropane	78-87-5	0.5	mg/kg	<0.5	1 mg/kg	95.4	68.0	124
EP074: cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	<0.5	1 mg/kg	99.9	51.0	119
EP074: trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	<0.5	1 mg/kg	93.3	52.0	114
EP074: 1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	<0.5	1 mg/kg	95.4	63.0	115
EP074E: Halogenated Aliphatic Compounds (QCLot: 4089907)								
EP074: Dichlorodifluoromethane	75-71-8	5	mg/kg	<5	10 mg/kg	106	30.0	148
EP074: Chloromethane	74-87-3	5	mg/kg	<5	10 mg/kg	107	41.0	141
EP074: Vinyl chloride	75-01-4	5	mg/kg	<5	10 mg/kg	98.6	43.0	147
EP074: Bromomethane	74-83-9	5	mg/kg	<5	10 mg/kg	101	47.0	141
EP074: Chloroethane	75-00-3	5	mg/kg	<5	10 mg/kg	96.0	49.0	143
EP074: Trichlorofluoromethane	75-69-4	5	mg/kg	<5	10 mg/kg	96.3	49.0	135
EP074: 1.1-Dichloroethene	75-35-4	0.5	mg/kg	<0.5	1 mg/kg	98.0	54.0	126
EP074: Iodomethane	74-88-4	0.5	mg/kg	<0.5	1 mg/kg	106	43.0	129
EP074: trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	<0.5	1 mg/kg	97.0	64.0	120
EP074: 1.1-Dichloroethane	75-34-3	0.5	mg/kg	<0.5	1 mg/kg	99.4	67.0	125
EP074: cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	<0.5	1 mg/kg	102	69.0	121
EP074: 1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	<0.5	1 mg/kg	94.7	65.0	117
EP074: 1.1-Dichloropropylene	563-58-6	0.5	mg/kg	<0.5	1 mg/kg	94.1	65.0	123
EP074: Carbon Tetrachloride	56-23-5	0.5	mg/kg	<0.5	1 mg/kg	97.4	59.0	125
EP074: 1.2-Dichloroethane	107-06-2	0.5	mg/kg	<0.5	1 mg/kg	98.7	65.0	125
EP074: Trichloroethene	79-01-6	0.5	mg/kg	<0.5	1 mg/kg	94.5	70.0	118
EP074: Dibromomethane	74-95-3	0.5	mg/kg	<0.5	1 mg/kg	93.6	68.0	118
EP074: 1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	<0.5	1 mg/kg	94.2	64.0	126
EP074: 1.3-Dichloropropane	142-28-9	0.5	mg/kg	<0.5	1 mg/kg	98.8	68.0	122
EP074: Tetrachloroethene	127-18-4	0.5	mg/kg	<0.5	1 mg/kg	99.9	67.0	143
EP074: 1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	<0.5	1 mg/kg	95.2	62.0	122
EP074: trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	<0.5	1 mg/kg	95.7	54.0	128
EP074: cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	<0.5	1 mg/kg	91.4	55.0	129
EP074: 1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	<0.5	1 mg/kg	101	65.0	121
EP074: 1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	<0.5	1 mg/kg	78.0	61.0	125
EP074: Pentachloroethane	76-01-7	0.5	mg/kg	<0.5	1 mg/kg	98.8	19.8	134
EP074: 1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	<0.5	1 mg/kg	111	53.0	129
EP074: Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	1 mg/kg	102	50.0	128
EP074F: Halogenated Aromatic Compounds (QCLot: 4089907)								
EP074: Chlorobenzene	108-90-7	0.5	mg/kg	<0.5	1 mg/kg	96.5	68.0	116
EP074: Bromobenzene	108-86-1	0.5	mg/kg	<0.5	1 mg/kg	96.6	70.0	114
EP074: 2-Chlorotoluene	95-49-8	0.5	mg/kg	<0.5	1 mg/kg	94.8	68.0	122
EP074: 4-Chlorotoluene	106-43-4	0.5	mg/kg	<0.5	1 mg/kg	100	67.0	123
EP074: 1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	1 mg/kg	94.8	70.0	116

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Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report		
				Result	Spike Concentration	Spike Recovery (%)	Acceptable Limits (%)
						LCS	Low	High
EP074F: Halogenated Aromatic Compounds (QCLot: 4089907) - continued								
EP074: 1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	1 mg/kg	96.8	67.0	117
EP074: 1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	1 mg/kg	95.2	70.0	114
EP074: 1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	1 mg/kg	104	48.0	122
EP074: 1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	<0.5	1 mg/kg	102	52.0	122
EP074G: Trihalomethanes (QCLot: 4089907)								
EP074: Chloroform	67-66-3	0.5	mg/kg	<0.5	1 mg/kg	97.2	66.0	124
EP074: Bromodichloromethane	75-27-4	0.5	mg/kg	<0.5	1 mg/kg	95.3	61.0	121
EP074: Dibromochloromethane	124-48-1	0.5	mg/kg	<0.5	1 mg/kg	98.0	63.0	121
EP074: Bromoform	75-25-2	0.5	mg/kg	<0.5	1 mg/kg	97.5	60.0	126
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 4088002)								
EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	6 mg/kg	102	77.0	125
EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	6 mg/kg	104	72.0	124
EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	6 mg/kg	98.1	73.0	127
EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	6 mg/kg	108	72.0	126
EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	6 mg/kg	106	75.0	127
EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	6 mg/kg	99.0	77.0	127
EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	6 mg/kg	112	73.0	127
EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	6 mg/kg	108	74.0	128
EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	6 mg/kg	104	69.0	123
EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	6 mg/kg	101	75.0	127
EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	6 mg/kg	102	68.0	116
EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	6 mg/kg	101	74.0	126
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	6 mg/kg	87.4	70.0	126
EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	6 mg/kg	93.8	61.0	121
EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	6 mg/kg	91.3	62.0	118
EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	6 mg/kg	94.8	63.0	121
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4088001)								
EP071: C10 - C14 Fraction	----	50	mg/kg	<50	300 mg/kg	107	75.0	129
EP071: C15 - C28 Fraction	----	100	mg/kg	<100	450 mg/kg	108	77.0	131
EP071: C29 - C36 Fraction	----	100	mg/kg	<100	300 mg/kg	106	71.0	129
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4089906)								
EP080: C6 - C9 Fraction	----	10	mg/kg	<10	26 mg/kg	122	68.4	128
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4088001)								
EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	375 mg/kg	107	77.0	125
EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	525 mg/kg	104	74.0	138
EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	225 mg/kg	103	63.0	131
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4089906)								

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Sub-Matrix: **SOIL**

				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4089906) - continued								
EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	31 mg/kg	121	68.4	128
EP080: BTEXN (QCLot: 4089906)								
EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	1 mg/kg	115	62.0	116
EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	1 mg/kg	115	67.0	121
EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	1 mg/kg	116	65.0	117
EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	2 mg/kg	118	66.0	118
EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	1 mg/kg	118	68.0	120
EP080: Naphthalene	91-20-3	1	mg/kg	<1	1 mg/kg	111	63.0	119
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4087872)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	0.00125 mg/kg	128	72.0	128
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	116	73.0	123
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	98.8	67.0	130
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	111	70.0	132
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	109	68.0	136
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	0.00125 mg/kg	110	59.0	134
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4087872)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	0.00625 mg/kg	99.5	71.0	135
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	0.00125 mg/kg	104	69.0	132
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	124	70.0	132
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	128	71.0	131
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	129	69.0	133
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	101	72.0	129
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	0.00125 mg/kg	106	69.0	133
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	102	64.0	136
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	108	69.0	135
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	107	66.0	139
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	105	69.0	133
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4087872)								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	97.6	67.0	137
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	0.00312 mg/kg	116	71.6	129
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	94.1	69.8	131
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	109	68.7	130
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	108	65.1	134
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	113	63.0	144

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Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4087872) - continued								
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	98.8	61.0	139
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4087872)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	0.00125 mg/kg	134	62.0	145
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	0.00125 mg/kg	113	64.0	140
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	0.00125 mg/kg	122	65.0	137
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	0.00125 mg/kg	139	69.2	143

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EG020T: Total Metals by ICP-MS (QCLot: 4092227)								
EG020A-T: Arsenic	7440-38-2	0.001	mg/L	<0.001	0.1 mg/L	102	82.0	114
EG020A-T: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	0.1 mg/L	99.8	84.0	112
EG020A-T: Chromium	7440-47-3	0.001	mg/L	<0.001	0.1 mg/L	97.0	86.0	116
EG020A-T: Copper	7440-50-8	0.001	mg/L	<0.001	0.1 mg/L	98.4	83.0	118
EG020A-T: Lead	7439-92-1	0.001	mg/L	<0.001	0.1 mg/L	95.3	85.0	115
EG020A-T: Nickel	7440-02-0	0.001	mg/L	<0.001	0.1 mg/L	99.6	84.0	116
EG020A-T: Zinc	7440-66-6	0.005	mg/L	<0.005	0.1 mg/L	99.2	79.0	117
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4092248)								
EG035T: Mercury	7439-97-6	0.0001	mg/L	<0.0001	0.01 mg/L	97.2	77.0	111
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 4088375)								
EP066: Total Polychlorinated biphenyls	----	1	µg/L	<1	10 µg/L	84.7	68.9	113
EP068A: Organochlorine Pesticides (OC) (QCLot: 4088374)								
EP068: alpha-BHC	319-84-6	0.5	µg/L	<0.5	5 µg/L	86.7	64.9	107
EP068: Hexachlorobenzene (HCB)	118-74-1	0.5	µg/L	<0.5	5 µg/L	86.9	58.3	111
EP068: beta-BHC	319-85-7	0.5	µg/L	<0.5	5 µg/L	85.5	69.0	117
EP068: gamma-BHC	58-89-9	0.5	µg/L	<0.5	5 µg/L	89.9	70.0	112
EP068: delta-BHC	319-86-8	0.5	µg/L	<0.5	5 µg/L	84.6	68.9	110
EP068: Heptachlor	76-44-8	0.5	µg/L	<0.5	5 µg/L	84.3	65.2	108
EP068: Aldrin	309-00-2	0.5	µg/L	<0.5	5 µg/L	86.9	65.8	109
EP068: Heptachlor epoxide	1024-57-3	0.5	µg/L	<0.5	5 µg/L	83.8	67.1	107
EP068: trans-Chlordane	5103-74-2	0.5	µg/L	<0.5	5 µg/L	83.6	64.1	110
EP068: alpha-Endosulfan	959-98-8	0.5	µg/L	<0.5	5 µg/L	86.7	66.7	112
EP068: cis-Chlordane	5103-71-9	0.5	µg/L	<0.5	5 µg/L	79.1	63.2	111
EP068: Dieldrin	60-57-1	0.5	µg/L	<0.5	5 µg/L	90.6	65.2	113
EP068: 4.4`-DDE	72-55-9	0.5	µg/L	<0.5	5 µg/L	84.5	66.0	112
EP068: Endrin	72-20-8	0.5	µg/L	<0.5	5 µg/L	98.5	65.2	113
EP068: beta-Endosulfan	33213-65-9	0.5	µg/L	<0.5	5 µg/L	85.9	67.3	114

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Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report		
				Result	Spike Concentration	Spike Recovery (%)	Acceptable Limits (%)
						LCS	Low	High
EP068A: Organochlorine Pesticides (OC) (QCLot: 4088374) - continued								
EP068: 4.4`-DDD	72-54-8	0.5	µg/L	<0.5	5 µg/L	84.2	72.0	122
EP068: Endrin aldehyde	7421-93-4	0.5	µg/L	<0.5	5 µg/L	84.3	66.9	109
EP068: Endosulfan sulfate	1031-07-8	0.5	µg/L	<0.5	5 µg/L	87.7	65.2	112
EP068: 4.4`-DDT	50-29-3	2	µg/L	<2.0	5 µg/L	90.1	65.2	112
EP068: Endrin ketone	53494-70-5	0.5	µg/L	<0.5	5 µg/L	88.2	63.8	110
EP068: Methoxychlor	72-43-5	2	µg/L	<2.0	5 µg/L	93.0	61.1	114
EP068B: Organophosphorus Pesticides (OP) (QCLot: 4088374)								
EP068: Dichlorvos	62-73-7	0.5	µg/L	<0.5	5 µg/L	83.2	65.6	114
EP068: Demeton-S-methyl	919-86-8	0.5	µg/L	<0.5	5 µg/L	82.0	63.7	113
EP068: Monocrotophos	6923-22-4	2	µg/L	<2.0	5 µg/L	23.8	19.7	48.0
EP068: Dimethoate	60-51-5	0.5	µg/L	<0.5	5 µg/L	83.4	69.5	110
EP068: Diazinon	333-41-5	0.5	µg/L	<0.5	5 µg/L	87.8	71.1	110
EP068: Chlorpyrifos-methyl	5598-13-0	0.5	µg/L	<0.5	5 µg/L	81.1	77.0	119
EP068: Parathion-methyl	298-00-0	2	µg/L	<2.0	5 µg/L	81.7	70.0	124
EP068: Malathion	121-75-5	0.5	µg/L	<0.5	5 µg/L	85.8	68.4	116
EP068: Fenthion	55-38-9	0.5	µg/L	<0.5	5 µg/L	80.2	68.6	112
EP068: Chlorpyrifos	2921-88-2	0.5	µg/L	<0.5	5 µg/L	83.9	75.0	119
EP068: Parathion	56-38-2	2	µg/L	<2.0	5 µg/L	83.7	67.0	121
EP068: Pirimphos-ethyl	23505-41-1	0.5	µg/L	<0.5	5 µg/L	78.2	69.0	121
EP068: Chlorfenvinphos	470-90-6	0.5	µg/L	<0.5	5 µg/L	98.0	71.8	110
EP068: Bromophos-ethyl	4824-78-6	0.5	µg/L	<0.5	5 µg/L	75.1	67.5	112
EP068: Fenamiphos	22224-92-6	0.5	µg/L	<0.5	5 µg/L	107	64.1	116
EP068: Prothiofos	34643-46-4	0.5	µg/L	<0.5	5 µg/L	83.0	67.8	114
EP068: Ethion	563-12-2	0.5	µg/L	<0.5	5 µg/L	77.8	74.0	120
EP068: Carbophenothion	786-19-6	0.5	µg/L	<0.5	5 µg/L	78.5	66.2	114
EP068: Azinphos Methyl	86-50-0	0.5	µg/L	<0.5	5 µg/L	104	51.6	128
EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 4096752)								
EP074: Styrene	100-42-5	5	µg/L	<5	10 µg/L	102	73.0	119
EP074: Isopropylbenzene	98-82-8	5	µg/L	<5	10 µg/L	103	76.0	118
EP074: n-Propylbenzene	103-65-1	5	µg/L	<5	10 µg/L	101	69.0	119
EP074: 1.3.5-Trimethylbenzene	108-67-8	5	µg/L	<5	10 µg/L	102	74.0	116
EP074: sec-Butylbenzene	135-98-8	5	µg/L	<5	10 µg/L	101	73.0	119
EP074: 1.2.4-Trimethylbenzene	95-63-6	5	µg/L	<5	10 µg/L	101	74.0	116
EP074: tert-Butylbenzene	98-06-6	5	µg/L	<5	10 µg/L	102	72.0	116
EP074: p-Isopropyltoluene	99-87-6	5	µg/L	<5	10 µg/L	101	71.0	119
EP074: n-Butylbenzene	104-51-8	5	µg/L	<5	10 µg/L	102	65.0	123
EP074B: Oxygenated Compounds (QCLot: 4096752)								
EP074: Vinyl Acetate	108-05-4	50	µg/L	<50	100 µg/L	97.4	61.4	134

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Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report		
					Spike	Spike Recovery (%)	Acceptable Limits (%)
				Result	Concentration	LCS	Low	High
EP074B: Oxygenated Compounds (QCLot: 4096752) - continued								
EP074: 2-Butanone (MEK)	78-93-3	50	µg/L	<50	100 µg/L	104	73.6	130
EP074: 4-Methyl-2-pentanone (MIBK)	108-10-1	50	µg/L	<50	100 µg/L	99.8	66.0	132
EP074: 2-Hexanone (MBK)	591-78-6	50	µg/L	<50	100 µg/L	103	65.0	137
EP074C: Sulfonated Compounds (QCLot: 4096752)								
EP074: Carbon disulfide	75-15-0	5	µg/L	<5	10 µg/L	92.6	72.8	127
EP074D: Fumigants (QCLot: 4096752)								
EP074: 2.2-Dichloropropane	594-20-7	5	µg/L	<5	10 µg/L	99.5	68.0	122
EP074: 1.2-Dichloropropane	78-87-5	5	µg/L	<5	10 µg/L	100	76.0	118
EP074: cis-1.3-Dichloropropylene	10061-01-5	5	µg/L	<5	10 µg/L	97.0	62.0	120
EP074: trans-1.3-Dichloropropylene	10061-02-6	5	µg/L	<5	10 µg/L	96.4	60.0	114
EP074: 1.2-Dibromoethane (EDB)	106-93-4	5	µg/L	<5	10 µg/L	99.1	69.0	117
EP074E: Halogenated Aliphatic Compounds (QCLot: 4096752)								
EP074: Dichlorodifluoromethane	75-71-8	50	µg/L	<50	100 µg/L	103	60.6	138
EP074: Chloromethane	74-87-3	50	µg/L	<50	100 µg/L	94.6	67.4	130
EP074: Vinyl chloride	75-01-4	50	µg/L	<50	100 µg/L	94.8	69.4	129
EP074: Bromomethane	74-83-9	50	µg/L	<50	100 µg/L	98.6	56.0	140
EP074: Chloroethane	75-00-3	50	µg/L	<50	100 µg/L	97.2	61.0	139
EP074: Trichlorofluoromethane	75-69-4	50	µg/L	<50	100 µg/L	98.3	69.0	131
EP074: 1.1-Dichloroethene	75-35-4	5	µg/L	<5	10 µg/L	99.3	70.0	124
EP074: Iodomethane	74-88-4	5	µg/L	<5	10 µg/L	87.1	70.2	128
EP074: trans-1.2-Dichloroethene	156-60-5	5	µg/L	<5	10 µg/L	97.6	74.0	118
EP074: 1.1-Dichloroethane	75-34-3	5	µg/L	<5	10 µg/L	98.6	74.0	120
EP074: cis-1.2-Dichloroethene	156-59-2	5	µg/L	<5	10 µg/L	101	77.0	119
EP074: 1.1.1-Trichloroethane	71-55-6	5	µg/L	<5	10 µg/L	98.8	67.0	119
EP074: 1.1-Dichloropropylene	563-58-6	5	µg/L	<5	10 µg/L	98.4	73.0	119
EP074: Carbon Tetrachloride	56-23-5	5	µg/L	<5	10 µg/L	95.8	62.0	120
EP074: 1.2-Dichloroethane	107-06-2	5	µg/L	<5	10 µg/L	100	73.0	123
EP074: Trichloroethene	79-01-6	5	µg/L	<5	10 µg/L	100	76.0	118
EP074: Dibromomethane	74-95-3	5	µg/L	<5	10 µg/L	99.4	73.0	119
EP074: 1.1.2-Trichloroethane	79-00-5	5	µg/L	<5	10 µg/L	100	72.0	126
EP074: 1.3-Dichloropropane	142-28-9	5	µg/L	<5	10 µg/L	99.8	71.0	129
EP074: Tetrachloroethene	127-18-4	5	µg/L	<5	10 µg/L	98.3	72.0	124
EP074: 1.1.1.2-Tetrachloroethane	630-20-6	5	µg/L	<5	10 µg/L	99.8	66.0	114
EP074: trans-1.4-Dichloro-2-butene	110-57-6	5	µg/L	<5	10 µg/L	102	60.0	120
EP074: cis-1.4-Dichloro-2-butene	1476-11-5	5	µg/L	<5	10 µg/L	100	70.6	128
EP074: 1.1.2.2-Tetrachloroethane	79-34-5	5	µg/L	<5	10 µg/L	102	70.0	124
EP074: 1.2.3-Trichloropropane	96-18-4	5	µg/L	<5	10 µg/L	103	74.0	126
EP074: Pentachloroethane	76-01-7	5	µg/L	<5	10 µg/L	97.4	71.8	126

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Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP074E: Halogenated Aliphatic Compounds (QCLot: 4096752) - continued								
EP074: 1.2-Dibromo-3-chloropropane	96-12-8	5	µg/L	<5	10 µg/L	98.4	66.4	136
EP074: Hexachlorobutadiene	87-68-3	5	µg/L	<5	10 µg/L	103	58.0	130
EP074F: Halogenated Aromatic Compounds (QCLot: 4096752)								
EP074: Chlorobenzene	108-90-7	5	µg/L	<5	10 µg/L	102	79.0	117
EP074: Bromobenzene	108-86-1	5	µg/L	<5	10 µg/L	100	76.0	116
EP074: 2-Chlorotoluene	95-49-8	5	µg/L	<5	10 µg/L	101	73.0	119
EP074: 4-Chlorotoluene	106-43-4	5	µg/L	<5	10 µg/L	102	73.0	119
EP074: 1.3-Dichlorobenzene	541-73-1	5	µg/L	<5	10 µg/L	102	75.0	117
EP074: 1.4-Dichlorobenzene	106-46-7	5	µg/L	<5	10 µg/L	104	74.0	118
EP074: 1.2-Dichlorobenzene	95-50-1	5	µg/L	<5	10 µg/L	102	75.0	117
EP074: 1.2.4-Trichlorobenzene	120-82-1	5	µg/L	<5	10 µg/L	102	61.0	125
EP074: 1.2.3-Trichlorobenzene	87-61-6	5	µg/L	<5	10 µg/L	102	67.0	123
EP074G: Trihalomethanes (QCLot: 4096752)								
EP074: Chloroform	67-66-3	5	µg/L	<5	10 µg/L	99.8	72.0	120
EP074: Bromodichloromethane	75-27-4	5	µg/L	<5	10 µg/L	96.4	64.0	118
EP074: Dibromochloromethane	124-48-1	5	µg/L	<5	10 µg/L	94.7	65.0	115
EP074: Bromoform	75-25-2	5	µg/L	<5	10 µg/L	94.6	73.5	126
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 4088373)								
EP075(SIM): Naphthalene	91-20-3	1	µg/L	<1.0	5 µg/L	77.1	50.0	94.0
EP075(SIM): Acenaphthylene	208-96-8	1	µg/L	<1.0	5 µg/L	84.6	63.6	114
EP075(SIM): Acenaphthene	83-32-9	1	µg/L	<1.0	5 µg/L	82.0	62.2	113
EP075(SIM): Fluorene	86-73-7	1	µg/L	<1.0	5 µg/L	82.9	63.9	115
EP075(SIM): Phenanthrene	85-01-8	1	µg/L	<1.0	5 µg/L	92.4	62.6	116
EP075(SIM): Anthracene	120-12-7	1	µg/L	<1.0	5 µg/L	87.2	64.3	116
EP075(SIM): Fluoranthene	206-44-0	1	µg/L	<1.0	5 µg/L	97.2	63.6	118
EP075(SIM): Pyrene	129-00-0	1	µg/L	<1.0	5 µg/L	94.8	63.1	118
EP075(SIM): Benz(a)anthracene	56-55-3	1	µg/L	<1.0	5 µg/L	77.1	64.1	117
EP075(SIM): Chrysene	218-01-9	1	µg/L	<1.0	5 µg/L	82.9	62.5	116
EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	1	µg/L	<1.0	5 µg/L	68.4	61.7	119
EP075(SIM): Benzo(k)fluoranthene	207-08-9	1	µg/L	<1.0	5 µg/L	86.7	63.0	115
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	µg/L	<0.5	5 µg/L	78.8	63.3	117
EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	1	µg/L	<1.0	5 µg/L	74.4	59.9	118
EP075(SIM): Dibenz(a.h)anthracene	53-70-3	1	µg/L	<1.0	5 µg/L	73.4	61.2	117
EP075(SIM): Benzo(g.h.i)perylene	191-24-2	1	µg/L	<1.0	5 µg/L	67.1	59.1	118
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4088372)								
EP071: C10 - C14 Fraction	---	50	µg/L	<50	400 µg/L	67.0	55.8	112
EP071: C15 - C28 Fraction	---	100	µg/L	<100	600 µg/L	80.7	71.6	113

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Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4088372) - continued								
EP071: C29 - C36 Fraction	----	50	µg/L	<50	400 µg/L	99.7	56.0	121
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4096751)								
EP080: C6 - C9 Fraction	----	20	µg/L	<20	260 µg/L	89.1	75.0	127
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4088372)								
EP071: >C10 - C16 Fraction	----	100	µg/L	<100	500 µg/L	77.4	57.9	119
EP071: >C16 - C34 Fraction	----	100	µg/L	<100	700 µg/L	99.1	62.5	110
EP071: >C34 - C40 Fraction	----	100	µg/L	<100	300 µg/L	87.3	61.5	121
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4096751)								
EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	310 µg/L	88.6	75.0	127
EP080: BTEXN (QCLot: 4096751)								
EP080: Benzene	71-43-2	1	µg/L	<1	10 µg/L	92.5	70.0	122
EP080: Toluene	108-88-3	2	µg/L	<2	10 µg/L	98.2	69.0	123
EP080: Ethylbenzene	100-41-4	2	µg/L	<2	10 µg/L	101	70.0	120
EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	10 µg/L	103	69.0	121
EP080: ortho-Xylene	95-47-6	2	µg/L	<2	10 µg/L	104	72.0	122
EP080: Naphthalene	91-20-3	5	µg/L	<5	10 µg/L	108	70.0	120
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4096596)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	0.25 µg/L	123	72.0	130
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	0.25 µg/L	109	71.0	127
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.25 µg/L	108	68.0	131
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	0.25 µg/L	110	69.0	134
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.25 µg/L	95.4	65.0	140
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	0.25 µg/L	109	53.0	142
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4096596)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	1.25 µg/L	107	73.0	129
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	0.25 µg/L	115	72.0	129
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.25 µg/L	112	72.0	129
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	0.25 µg/L	108	72.0	130
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	0.25 µg/L	129	71.0	133
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	0.25 µg/L	118	69.0	130
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	0.25 µg/L	107	71.0	129
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	0.25 µg/L	114	69.0	133
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	0.25 µg/L	120	72.0	134
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	0.25 µg/L	114	65.0	144
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	0.625 µg/L	110	71.0	132
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4096596)								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	0.25 µg/L	108	67.0	137

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Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4096596) - continued								
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	0.625 µg/L	114	68.0	141
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	0.625 µg/L	106	62.6	147
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	0.625 µg/L	98.8	66.0	145
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	0.625 µg/L	108	57.6	145
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	0.25 µg/L	115	65.0	136
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.25 µg/L	121	61.0	135
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4096596)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.25 µg/L	119	63.0	143
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	0.25 µg/L	117	64.0	140
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	0.25 µg/L	115	67.0	138
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	0.25 µg/L	109	71.4	144

Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

Sub-Matrix: **SOIL**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	SpikeRecovery(%): MS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4093741)							
ES2146476-001	BUR_BH105_0.1	EG005T: Arsenic	7440-38-2	50 mg/kg	106	70.0	130
		EG005T: Cadmium	7440-43-9	50 mg/kg	106	70.0	130
		EG005T: Chromium	7440-47-3	50 mg/kg	105	68.0	132
		EG005T: Copper	7440-50-8	250 mg/kg	103	70.0	130
		EG005T: Lead	7439-92-1	250 mg/kg	107	70.0	130
		EG005T: Nickel	7440-02-0	50 mg/kg	104	70.0	130
		EG005T: Zinc	7440-66-6	250 mg/kg	112	66.0	133
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4093744)							
ES2146476-001	BUR_BH105_0.1	EG035T: Mercury	7439-97-6	5 mg/kg	97.1	70.0	130
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 4088004)							
ES2146476-001	BUR_BH105_0.1	EP066: Total Polychlorinated biphenyls	---	1 mg/kg	93.2	70.0	130
EP068A: Organochlorine Pesticides (OC) (QCLot: 4088003)							
ES2146476-001	BUR_BH105_0.1	EP068: gamma-BHC	58-89-9	0.5 mg/kg	102	70.0	130
		EP068: Heptachlor	76-44-8	0.5 mg/kg	78.1	70.0	130

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Sub-Matrix: **SOIL**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP068A: Organochlorine Pesticides (OC) (QCLot: 4088003) - continued							
ES2146476-001	BUR_BH105_0.1	EP068: Aldrin	309-00-2	0.5 mg/kg	89.4	70.0	130
		EP068: Dieldrin	60-57-1	0.5 mg/kg	84.0	70.0	130
		EP068: Endrin	72-20-8	2 mg/kg	80.7	70.0	130
		EP068: 4.4`-DDT	50-29-3	2 mg/kg	82.5	70.0	130
EP068B: Organophosphorus Pesticides (OP) (QCLot: 4088003)							
ES2146476-001	BUR_BH105_0.1	EP068: Diazinon	333-41-5	0.5 mg/kg	97.3	70.0	130
		EP068: Chlorpyrifos-methyl	5598-13-0	0.5 mg/kg	90.5	70.0	130
		EP068: Pirimphos-ethyl	23505-41-1	0.5 mg/kg	82.5	70.0	130
		EP068: Bromophos-ethyl	4824-78-6	0.5 mg/kg	77.9	70.0	130
		EP068: Prothiofos	34643-46-4	0.5 mg/kg	106	70.0	130
EP074E: Halogenated Aliphatic Compounds (QCLot: 4089907)							
ES2146476-001	BUR_BH105_0.1	EP074: 1.1-Dichloroethene	75-35-4	2.5 mg/kg	128	70.0	130
		EP074: Trichloroethene	79-01-6	2.5 mg/kg	84.8	70.0	130
EP074F: Halogenated Aromatic Compounds (QCLot: 4089907)							
ES2146476-001	BUR_BH105_0.1	EP074: Chlorobenzene	108-90-7	2.5 mg/kg	90.6	70.0	130
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 4088002)							
ES2146476-001	BUR_BH105_0.1	EP075(SIM): Acenaphthene	83-32-9	10 mg/kg	90.6	70.0	130
		EP075(SIM): Pyrene	129-00-0	10 mg/kg	102	70.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4088001)							
ES2146476-001	BUR_BH105_0.1	EP071: C10 - C14 Fraction	----	480 mg/kg	92.3	73.0	137
		EP071: C15 - C28 Fraction	----	3100 mg/kg	101	53.0	131
		EP071: C29 - C36 Fraction	----	2060 mg/kg	104	52.0	132
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4089906)							
ES2146476-001	BUR_BH105_0.1	EP080: C6 - C9 Fraction	----	32.5 mg/kg	108	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4088001)							
ES2146476-001	BUR_BH105_0.1	EP071: >C10 - C16 Fraction	----	860 mg/kg	95.6	73.0	137
		EP071: >C16 - C34 Fraction	----	4320 mg/kg	104	53.0	131
		EP071: >C34 - C40 Fraction	----	890 mg/kg	95.8	52.0	132
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4089906)							
ES2146476-001	BUR_BH105_0.1	EP080: C6 - C10 Fraction	C6_C10	37.5 mg/kg	106	70.0	130
EP080: BTEXN (QCLot: 4089906)							
ES2146476-001	BUR_BH105_0.1	EP080: Benzene	71-43-2	2.5 mg/kg	88.8	70.0	130
		EP080: Toluene	108-88-3	2.5 mg/kg	88.8	70.0	130
		EP080: Ethylbenzene	100-41-4	2.5 mg/kg	89.7	70.0	130
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2.5 mg/kg	91.2	70.0	130

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Sub-Matrix: **SOIL**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP080: BTEXN (QCLot: 4089906) - continued							
ES2146476-001	BUR_BH105_0.1	EP080: ortho-Xylene	95-47-6	2.5 mg/kg	91.3	70.0	130
		EP080: Naphthalene	91-20-3	2.5 mg/kg	86.4	70.0	130
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4087872)							
ES2145948-003	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.00125 mg/kg	120	72.0	128
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00125 mg/kg	120	73.0	123
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.00125 mg/kg	97.6	67.0	130
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00125 mg/kg	95.6	70.0	132
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.00125 mg/kg	88.8	68.0	136
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.00125 mg/kg	119	59.0	134
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4087872)							
ES2145948-003	Anonymous	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.00625 mg/kg	99.6	71.0	135
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.00125 mg/kg	106	69.0	132
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.00125 mg/kg	122	70.0	132
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.00125 mg/kg	125	71.0	131
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.00125 mg/kg	119	69.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.00125 mg/kg	102	72.0	129
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.00125 mg/kg	100	69.0	133
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.00125 mg/kg	92.4	64.0	136
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.00125 mg/kg	135	69.0	135
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.00125 mg/kg	131	66.0	139
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.00312 mg/kg	98.7	69.0	133
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4087872)							
ES2145948-003	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.00125 mg/kg	96.4	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.00312 mg/kg	115	71.6	129
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.00312 mg/kg	94.1	69.8	131
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.00312 mg/kg	102	68.7	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.00312 mg/kg	95.4	65.1	134
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.00125 mg/kg	128	63.0	144
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.00125 mg/kg	101	61.0	139
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4087872)							
ES2145948-003	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.00125 mg/kg	133	62.0	145
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.00125 mg/kg	107	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.00125 mg/kg	126	65.0	137

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Sub-Matrix: **SOIL**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	SpikeRecovery(%): MS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4087872) - continued							
ES2145948-003	Anonymous	EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.00125 mg/kg	136	69.2	143

Sub-Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	SpikeRecovery(%): MS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EG020T: Total Metals by ICP-MS (QCLot: 4092227)							
ES2146334-001	Anonymous	EG020A-T: Arsenic	7440-38-2	1 mg/L	80.0	70.0	130
		EG020A-T: Cadmium	7440-43-9	0.25 mg/L	78.5	70.0	130
		EG020A-T: Chromium	7440-47-3	1 mg/L	77.4	70.0	130
		EG020A-T: Copper	7440-50-8	1 mg/L	79.5	70.0	130
		EG020A-T: Lead	7439-92-1	1 mg/L	80.3	70.0	130
		EG020A-T: Nickel	7440-02-0	1 mg/L	79.7	70.0	130
		EG020A-T: Zinc	7440-66-6	1 mg/L	78.8	70.0	130
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4092248)							
ES2146104-007	Anonymous	EG035T: Mercury	7439-97-6	0.01 mg/L	90.6	70.0	130
EP074E: Halogenated Aliphatic Compounds (QCLot: 4096752)							
ES2146157-001	Anonymous	EP074: 1,1-Dichloroethene	75-35-4	25 µg/L	112	70.0	130
		EP074: Trichloroethene	79-01-6	25 µg/L	117	70.0	130
EP074F: Halogenated Aromatic Compounds (QCLot: 4096752)							
ES2146157-001	Anonymous	EP074: Chlorobenzene	108-90-7	25 µg/L	112	70.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4096751)							
ES2146157-001	Anonymous	EP080: C6 - C9 Fraction	----	325 µg/L	119	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4096751)							
ES2146157-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	375 µg/L	114	70.0	130
EP080: BTEXN (QCLot: 4096751)							
ES2146157-001	Anonymous	EP080: Benzene	71-43-2	25 µg/L	106	70.0	130
		EP080: Toluene	108-88-3	25 µg/L	104	70.0	130
		EP080: Ethylbenzene	100-41-4	25 µg/L	106	70.0	130
		EP080: meta- & para-Xylene	108-38-3 106-42-3	25 µg/L	105	70.0	130
		EP080: ortho-Xylene	95-47-6	25 µg/L	107	70.0	130
		EP080: Naphthalene	91-20-3	25 µg/L	90.1	70.0	130
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4096596)							
ES2146476-005	20211215_R01	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.25 µg/L	112	72.0	130
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.25 µg/L	107	71.0	127
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.25 µg/L	99.2	68.0	131
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.25 µg/L	108	69.0	134

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Sub-Matrix: **WATER**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4096596) - continued							
ES2146476-005	20211215_R01	EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.25 µg/L	108	65.0	140
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.25 µg/L	109	53.0	142
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4096596)							
ES2146476-005	20211215_R01	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	1.25 µg/L	110	73.0	129
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.25 µg/L	118	72.0	129
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.25 µg/L	102	72.0	129
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.25 µg/L	117	72.0	130
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.25 µg/L	119	71.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.25 µg/L	110	69.0	130
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.25 µg/L	114	71.0	129
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.25 µg/L	116	69.0	133
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.25 µg/L	114	72.0	134
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.25 µg/L	102	65.0	144
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.625 µg/L	102	71.0	132
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4096596)							
ES2146476-005	20211215_R01	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.25 µg/L	99.8	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.625 µg/L	99.0	68.0	141
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.625 µg/L	99.7	62.6	147
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.625 µg/L	109	66.0	145
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.625 µg/L	99.3	57.6	145
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.25 µg/L	110	65.0	136
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.25 µg/L	102	61.0	135
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4096596)							
ES2146476-005	20211215_R01	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.25 µg/L	116	63.0	143
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.25 µg/L	114	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.25 µg/L	109	67.0	138
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.25 µg/L	118	71.4	144

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ALS Environmental

QA/QC Compliance Assessment to assist with Quality Review

Work Order	: **ES2146476**	Page	: 1 of 18
Amendment	: **1**		
Client	: **ENVIRONMENTAL RESOURCES MANAGEMENT (ERM)**	Laboratory	: Environmental Division Sydney
Contact	: MS JESSICA LAWRENCE	Telephone	: +61-2-8784 8555
Project	: 0577577-Burwood	Date Samples Received	: 17-Dec-2021
Site	: ----	Issue Date	: 02-Feb-2022
Sampler	: MADUSHANI BOLONGHE, TRISTAN RODRIGUES	No. of samples received	: 37
Order number	: ----	No. of samples analysed	: 21

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

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Summary of Outliers

Outliers : Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- **NO Method Blank value outliers occur.**
- **NO Duplicate outliers occur.**
- **NO Laboratory Control outliers occur.**
- **NO Matrix Spike outliers occur.**
- **Surrogate recovery outliers exist for all regular sample matrices - please see following pages for full details.**

Outliers : Analysis Holding Time Compliance

- **NO Analysis Holding Time Outliers exist.**

Outliers : Frequency of Quality Control Samples

- **Quality Control Sample Frequency Outliers exist - please see following pages for full details.**

Regular Sample Surrogates

Sub-Matrix: **SOIL**

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Samples Submitted							
EP080S: TPH(V)/BTEX Surrogates	ES2146476-020	BUR_BH104_1.0	**1.2-Dichloroethane-D4**	17060-07-0	72.3 %	72.8-133 %	**Recovery less than lower data quality objective**
EP080S: TPH(V)/BTEX Surrogates	ES2146476-016	BUR_BH103_3.0	**4-Bromofluorobenzene**	460-00-4	131 %	71.6-130 %	**Recovery greater than upper data quality objective**

Outliers : Frequency of Quality Control Samples

Matrix: **WATER**

Quality Control Sample Type / Method	Count QC	Count Regular	Rate (%) Actual	Rate (%) Expected	Quality Control Specification
Laboratory Duplicates (DUP)					
PAH/Phenols (GC/MS - SIM)	0	7	0.00	10.00	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	0	3	0.00	10.00	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	0	3	0.00	10.00	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	0	9	0.00	10.00	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)					
PAH/Phenols (GC/MS - SIM)	0	7	0.00	5.00	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	0	3	0.00	5.00	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	0	3	0.00	5.00	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	0	9	0.00	5.00	NEPM 2013 B3 & ALS QC Standard

Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for ***VOC in soils*** vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation: Date extracted	Extraction / Preparation: Due for extraction	Extraction / Preparation: Evaluation	Analysis: Date analysed	Analysis: Due for analysis	Analysis: Evaluation

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Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)		Sample Date	Extraction / Preparation			Analysis		
			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EA055: Moisture Content (Dried @ 105-110°C)								
Soil Glass Jar - Unpreserved (EA055)								
BUR_BH105_0.1,	BUR_BH105_3.0	15-Dec-2021	----	----	----	22-Dec-2021	29-Dec-2021	✓
Soil Glass Jar - Unpreserved (EA055)								
BUR_BH102_0.2 - BUR_BH102_0.15,	BUR_BH102_2.0,	16-Dec-2021	----	----	----	22-Dec-2021	30-Dec-2021	✓
BUR_BH103_0.1,	BUR_BH103_0.7,							
BUR_BH103_3.0,	BUR_BH103_5.0,							
BUR_BH104_0.2,	BUR_BH104_1.0,							
BUR_BH104_4.0,	BUR_BH118_0.25,							
BUR_BH118_1.5,	BUR_BH119_0.25,							
BUR_BH119_1.0,	D01_20211216							
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Snap Lock Bag - ACM/Asbestos Grab Bag (EA200)								
BUR_BH105_0.1		15-Dec-2021	----	----	----	20-Dec-2021	13-Jun-2022	✓
Snap Lock Bag - ACM/Asbestos Grab Bag (EA200)								
BUR_BH103_0.1,	BUR_BH104_0.2	16-Dec-2021	----	----	----	20-Dec-2021	14-Jun-2022	✓
Snap Lock Bag - ACM/Asbestos Grab Bag (EA200)								
BUR_BH118_0.25		16-Dec-2021	----	----	----	24-Dec-2021	14-Jun-2022	✓
Snap Lock Bag - Friable Asbestos/PSD Bag (EA200)								
BUR_BH119_0.25		16-Dec-2021	----	----	----	20-Dec-2021	14-Jun-2022	✓
EG005(ED093)T: Total Metals by ICP-AES								
Soil Glass Jar - Unpreserved (EG005T)								
BUR_BH105_0.1,	BUR_BH105_3.0	15-Dec-2021	22-Dec-2021	13-Jun-2022	✓	23-Dec-2021	13-Jun-2022	✓
Soil Glass Jar - Unpreserved (EG005T)								
BUR_BH102_0.2 - BUR_BH102_0.15,	BUR_BH102_2.0,	16-Dec-2021	22-Dec-2021	14-Jun-2022	✓	23-Dec-2021	14-Jun-2022	✓
BUR_BH103_0.1,	BUR_BH103_0.7,							
BUR_BH103_3.0,	BUR_BH103_5.0,							
BUR_BH104_0.2,	BUR_BH104_1.0,							
BUR_BH104_4.0,	BUR_BH118_0.25,							
BUR_BH118_1.5,	BUR_BH119_0.25,							
BUR_BH119_1.0,	D01_20211216							
EG035T: Total Recoverable Mercury by FIMS								
Soil Glass Jar - Unpreserved (EG035T)								
BUR_BH105_0.1,	BUR_BH105_3.0	15-Dec-2021	22-Dec-2021	12-Jan-2022	✓	23-Dec-2021	12-Jan-2022	✓
Soil Glass Jar - Unpreserved (EG035T)								
BUR_BH102_0.2 - BUR_BH102_0.15,	BUR_BH102_2.0,	16-Dec-2021	22-Dec-2021	13-Jan-2022	✓	23-Dec-2021	13-Jan-2022	✓
BUR_BH103_0.1,	BUR_BH103_0.7,							
BUR_BH103_3.0,	BUR_BH103_5.0,							
BUR_BH104_0.2,	BUR_BH104_1.0,							
BUR_BH104_4.0,	BUR_BH118_0.25,							
BUR_BH118_1.5,	BUR_BH119_0.25,							
BUR_BH119_1.0,	D01_20211216							

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Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)		Sample Date	Extraction / Preparation			Analysis		
			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP066: Polychlorinated Biphenyls (PCB)								
Soil Glass Jar - Unpreserved (EP066)								
BUR_BH105_0.1,	BUR_BH105_3.0	**15-Dec-2021**	**23-Dec-2021**	29-Dec-2021	✓	**24-Dec-2021**	01-Feb-2022	✓
Soil Glass Jar - Unpreserved (EP066)								
BUR_BH102_0.2 - BUR_BH102_0.15,	BUR_BH102_2.0,	**16-Dec-2021**	**23-Dec-2021**	30-Dec-2021	✓	**24-Dec-2021**	01-Feb-2022	✓
BUR_BH103_0.1,	BUR_BH103_0.7,							
BUR_BH103_3.0,	BUR_BH103_5.0,							
BUR_BH104_0.2,	BUR_BH104_1.0,							
BUR_BH104_4.0,	BUR_BH118_0.25,							
BUR_BH118_1.5,	BUR_BH119_0.25,							
BUR_BH119_1.0,	D01_20211216							
EP068A: Organochlorine Pesticides (OC)								
Soil Glass Jar - Unpreserved (EP068)								
BUR_BH105_0.1,	BUR_BH105_3.0	**15-Dec-2021**	**23-Dec-2021**	29-Dec-2021	✓	**24-Dec-2021**	01-Feb-2022	✓
Soil Glass Jar - Unpreserved (EP068)								
BUR_BH102_0.2 - BUR_BH102_0.15,	BUR_BH102_2.0,	**16-Dec-2021**	**23-Dec-2021**	30-Dec-2021	✓	**24-Dec-2021**	01-Feb-2022	✓
BUR_BH103_0.1,	BUR_BH103_0.7,							
BUR_BH103_3.0,	BUR_BH103_5.0,							
BUR_BH104_0.2,	BUR_BH104_1.0,							
BUR_BH104_4.0,	BUR_BH118_0.25,							
BUR_BH118_1.5,	BUR_BH119_0.25,							
BUR_BH119_1.0,	D01_20211216							
EP068B: Organophosphorus Pesticides (OP)								
Soil Glass Jar - Unpreserved (EP068)								
BUR_BH105_0.1,	BUR_BH105_3.0	**15-Dec-2021**	**23-Dec-2021**	29-Dec-2021	✓	**24-Dec-2021**	01-Feb-2022	✓
Soil Glass Jar - Unpreserved (EP068)								
BUR_BH102_0.2 - BUR_BH102_0.15,	BUR_BH102_2.0,	**16-Dec-2021**	**23-Dec-2021**	30-Dec-2021	✓	**24-Dec-2021**	01-Feb-2022	✓
BUR_BH103_0.1,	BUR_BH103_0.7,							
BUR_BH103_3.0,	BUR_BH103_5.0,							
BUR_BH104_0.2,	BUR_BH104_1.0,							
BUR_BH104_4.0,	BUR_BH118_0.25,							
BUR_BH118_1.5,	BUR_BH119_0.25,							
BUR_BH119_1.0,	D01_20211216							
EP074A: Monocyclic Aromatic Hydrocarbons								
Soil Glass Jar - Unpreserved (EP074)								
BUR_BH105_0.1		**15-Dec-2021**	**21-Dec-2021**	22-Dec-2021	✓	**22-Dec-2021**	22-Dec-2021	✓
Soil Glass Jar - Unpreserved (EP074)								
BUR_BH102_0.2 - BUR_BH102_0.15,	BUR_BH103_0.1,	**16-Dec-2021**	**21-Dec-2021**	23-Dec-2021	✓	**22-Dec-2021**	23-Dec-2021	✓
BUR_BH103_0.7,	BUR_BH103_5.0,							
BUR_BH104_0.2,	BUR_BH104_1.0,							
BUR_BH118_0.25,	BUR_BH118_1.5,							
BUR_BH119_0.25,	BUR_BH119_1.0,							
D01_20211216								

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Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)		Sample Date	Extraction / Preparation			Analysis		
			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP074B: Oxygenated Compounds								
Soil Glass Jar - Unpreserved (EP074)								
BUR_BH105_0.1		**15-Dec-2021**	**21-Dec-2021**	22-Dec-2021	✓	**22-Dec-2021**	22-Dec-2021	✓
Soil Glass Jar - Unpreserved (EP074)								
BUR_BH102_0.2 - BUR_BH102_0.15,	BUR_BH103_0.1,	**16-Dec-2021**	**21-Dec-2021**	23-Dec-2021	✓	**22-Dec-2021**	23-Dec-2021	✓
BUR_BH103_0.7,	BUR_BH103_5.0,							
BUR_BH104_0.2,	BUR_BH104_1.0,							
BUR_BH118_0.25,	BUR_BH118_1.5,							
BUR_BH119_0.25,	BUR_BH119_1.0,							
D01_20211216								
EP074C: Sulfonated Compounds								
Soil Glass Jar - Unpreserved (EP074)								
BUR_BH105_0.1		**15-Dec-2021**	**21-Dec-2021**	22-Dec-2021	✓	**22-Dec-2021**	22-Dec-2021	✓
Soil Glass Jar - Unpreserved (EP074)								
BUR_BH102_0.2 - BUR_BH102_0.15,	BUR_BH103_0.1,	**16-Dec-2021**	**21-Dec-2021**	23-Dec-2021	✓	**22-Dec-2021**	23-Dec-2021	✓
BUR_BH103_0.7,	BUR_BH103_5.0,							
BUR_BH104_0.2,	BUR_BH104_1.0,							
BUR_BH118_0.25,	BUR_BH118_1.5,							
BUR_BH119_0.25,	BUR_BH119_1.0,							
D01_20211216								
EP074D: Fumigants								
Soil Glass Jar - Unpreserved (EP074)								
BUR_BH105_0.1		**15-Dec-2021**	**21-Dec-2021**	22-Dec-2021	✓	**22-Dec-2021**	22-Dec-2021	✓
Soil Glass Jar - Unpreserved (EP074)								
BUR_BH102_0.2 - BUR_BH102_0.15,	BUR_BH103_0.1,	**16-Dec-2021**	**21-Dec-2021**	23-Dec-2021	✓	**22-Dec-2021**	23-Dec-2021	✓
BUR_BH103_0.7,	BUR_BH103_5.0,							
BUR_BH104_0.2,	BUR_BH104_1.0,							
BUR_BH118_0.25,	BUR_BH118_1.5,							
BUR_BH119_0.25,	BUR_BH119_1.0,							
D01_20211216								
EP074E: Halogenated Aliphatic Compounds								
Soil Glass Jar - Unpreserved (EP074)								
BUR_BH105_0.1		**15-Dec-2021**	**21-Dec-2021**	22-Dec-2021	✓	**22-Dec-2021**	22-Dec-2021	✓
Soil Glass Jar - Unpreserved (EP074)								
BUR_BH102_0.2 - BUR_BH102_0.15,	BUR_BH103_0.1,	**16-Dec-2021**	**21-Dec-2021**	23-Dec-2021	✓	**22-Dec-2021**	23-Dec-2021	✓
BUR_BH103_0.7,	BUR_BH103_5.0,							
BUR_BH104_0.2,	BUR_BH104_1.0,							
BUR_BH118_0.25,	BUR_BH118_1.5,							
BUR_BH119_0.25,	BUR_BH119_1.0,							
D01_20211216								

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Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)		Sample Date	Extraction / Preparation			Analysis		
			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP074F: Halogenated Aromatic Compounds								
Soil Glass Jar - Unpreserved (EP074)								
BUR_BH105_0.1		**15-Dec-2021**	**21-Dec-2021**	22-Dec-2021	✓	**22-Dec-2021**	22-Dec-2021	✓
Soil Glass Jar - Unpreserved (EP074)								
BUR_BH102_0.2 - BUR_BH102_0.15,	BUR_BH103_0.1,	**16-Dec-2021**	**21-Dec-2021**	23-Dec-2021	✓	**22-Dec-2021**	23-Dec-2021	✓
BUR_BH103_0.7,	BUR_BH103_5.0,							
BUR_BH104_0.2,	BUR_BH104_1.0,							
BUR_BH118_0.25,	BUR_BH118_1.5,							
BUR_BH119_0.25,	BUR_BH119_1.0,							
D01_20211216								
EP074G: Trihalomethanes								
Soil Glass Jar - Unpreserved (EP074)								
BUR_BH105_0.1		**15-Dec-2021**	**21-Dec-2021**	22-Dec-2021	✓	**22-Dec-2021**	22-Dec-2021	✓
Soil Glass Jar - Unpreserved (EP074)								
BUR_BH102_0.2 - BUR_BH102_0.15,	BUR_BH103_0.1,	**16-Dec-2021**	**21-Dec-2021**	23-Dec-2021	✓	**22-Dec-2021**	23-Dec-2021	✓
BUR_BH103_0.7,	BUR_BH103_5.0,							
BUR_BH104_0.2,	BUR_BH104_1.0,							
BUR_BH118_0.25,	BUR_BH118_1.5,							
BUR_BH119_0.25,	BUR_BH119_1.0,							
D01_20211216								
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Soil Glass Jar - Unpreserved (EP075(SIM))								
BUR_BH105_0.1,	BUR_BH105_3.0	**15-Dec-2021**	**23-Dec-2021**	29-Dec-2021	✓	**24-Dec-2021**	01-Feb-2022	✓
Soil Glass Jar - Unpreserved (EP075(SIM))								
BUR_BH102_0.2 - BUR_BH102_0.15,	BUR_BH102_2.0,	**16-Dec-2021**	**23-Dec-2021**	30-Dec-2021	✓	**24-Dec-2021**	01-Feb-2022	✓
BUR_BH103_0.1,	BUR_BH103_0.7,							
BUR_BH103_3.0,	BUR_BH103_5.0,							
BUR_BH104_0.2,	BUR_BH104_1.0,							
BUR_BH104_4.0,	BUR_BH118_0.25,							
BUR_BH118_1.5,	BUR_BH119_0.25,							
BUR_BH119_1.0,	D01_20211216							

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Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)		Sample Date	Extraction / Preparation			Analysis		
			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP080/071: Total Petroleum Hydrocarbons								
Soil Glass Jar - Unpreserved (EP080)								
BUR_BH105_0.1,	BUR_BH105_3.0	**15-Dec-2021**	**21-Dec-2021**	29-Dec-2021	✓	**22-Dec-2021**	29-Dec-2021	✓
Soil Glass Jar - Unpreserved (EP071)								
BUR_BH105_0.1,	BUR_BH105_3.0	**15-Dec-2021**	**23-Dec-2021**	29-Dec-2021	✓	**24-Dec-2021**	01-Feb-2022	✓
Soil Glass Jar - Unpreserved (EP080)								
BUR_BH102_0.2 - BUR_BH102_0.15,	BUR_BH102_2.0,	**16-Dec-2021**	**21-Dec-2021**	30-Dec-2021	✓	**22-Dec-2021**	30-Dec-2021	✓
BUR_BH103_0.1,	BUR_BH103_0.7,							
BUR_BH103_3.0,	BUR_BH103_5.0,							
BUR_BH104_0.2,	BUR_BH104_1.0,							
BUR_BH104_4.0,	BUR_BH118_0.25,							
BUR_BH118_1.5,	BUR_BH119_0.25,							
BUR_BH119_1.0,	D01_20211216							
Soil Glass Jar - Unpreserved (EP071)								
BUR_BH102_0.2 - BUR_BH102_0.15,	BUR_BH102_2.0,	**16-Dec-2021**	**23-Dec-2021**	30-Dec-2021	✓	**24-Dec-2021**	01-Feb-2022	✓
BUR_BH103_0.1,	BUR_BH103_0.7,							
BUR_BH103_3.0,	BUR_BH103_5.0,							
BUR_BH104_0.2,	BUR_BH104_1.0,							
BUR_BH104_4.0,	BUR_BH118_0.25,							
BUR_BH118_1.5,	BUR_BH119_0.25,							
BUR_BH119_1.0,	D01_20211216							
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
Soil Glass Jar - Unpreserved (EP080)								
BUR_BH105_0.1,	BUR_BH105_3.0	**15-Dec-2021**	**21-Dec-2021**	29-Dec-2021	✓	**22-Dec-2021**	29-Dec-2021	✓
Soil Glass Jar - Unpreserved (EP071)								
BUR_BH105_0.1,	BUR_BH105_3.0	**15-Dec-2021**	**23-Dec-2021**	29-Dec-2021	✓	**24-Dec-2021**	01-Feb-2022	✓
Soil Glass Jar - Unpreserved (EP080)								
BUR_BH102_0.2 - BUR_BH102_0.15,	BUR_BH102_2.0,	**16-Dec-2021**	**21-Dec-2021**	30-Dec-2021	✓	**22-Dec-2021**	30-Dec-2021	✓
BUR_BH103_0.1,	BUR_BH103_0.7,							
BUR_BH103_3.0,	BUR_BH103_5.0,							
BUR_BH104_0.2,	BUR_BH104_1.0,							
BUR_BH104_4.0,	BUR_BH118_0.25,							
BUR_BH118_1.5,	BUR_BH119_0.25,							
BUR_BH119_1.0,	D01_20211216							
Soil Glass Jar - Unpreserved (EP071)								
BUR_BH102_0.2 - BUR_BH102_0.15,	BUR_BH102_2.0,	**16-Dec-2021**	**23-Dec-2021**	30-Dec-2021	✓	**24-Dec-2021**	01-Feb-2022	✓
BUR_BH103_0.1,	BUR_BH103_0.7,							
BUR_BH103_3.0,	BUR_BH103_5.0,							
BUR_BH104_0.2,	BUR_BH104_1.0,							
BUR_BH104_4.0,	BUR_BH118_0.25,							
BUR_BH118_1.5,	BUR_BH119_0.25,							
BUR_BH119_1.0,	D01_20211216							

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Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)		Sample Date	Extraction / Preparation			Analysis		
			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP080: BTEXN								
Soil Glass Jar - Unpreserved (EP080)								
Trip Spike,	TSC1	13-Dec-2021	21-Dec-2021	27-Dec-2021	✓	22-Dec-2021	27-Dec-2021	✓
Soil Glass Jar - Unpreserved (EP080)								
BUR_BH105_0.1,	BUR_BH105_3.0,	15-Dec-2021	21-Dec-2021	29-Dec-2021	✓	22-Dec-2021	29-Dec-2021	✓
Trip Blank								
Soil Glass Jar - Unpreserved (EP080)								
BUR_BH102_0.2 - BUR_BH102_0.15,	BUR_BH102_2.0,	16-Dec-2021	21-Dec-2021	30-Dec-2021	✓	22-Dec-2021	30-Dec-2021	✓
BUR_BH103_0.1,	BUR_BH103_0.7,							
BUR_BH103_3.0,	BUR_BH103_5.0,							
BUR_BH104_0.2,	BUR_BH104_1.0,							
BUR_BH104_4.0,	BUR_BH118_0.25,							
BUR_BH118_1.5,	BUR_BH119_0.25,							
BUR_BH119_1.0,	D01_20211216							
EP231A: Perfluoroalkyl Sulfonic Acids								
HDPE Soil Jar (EP231X)								
BUR_BH105_0.1		15-Dec-2021	20-Dec-2021	13-Jun-2022	✓	21-Dec-2021	29-Jan-2022	✓
HDPE Soil Jar (EP231X)								
BUR_BH102_0.2 - BUR_BH102_0.15,	BUR_BH103_0.1,	16-Dec-2021	20-Dec-2021	14-Jun-2022	✓	21-Dec-2021	29-Jan-2022	✓
BUR_BH103_5.0,	BUR_BH104_0.2,							
BUR_BH104_4.0,	BUR_BH118_0.25,							
BUR_BH119_0.25,	D01_20211216							
EP231B: Perfluoroalkyl Carboxylic Acids								
HDPE Soil Jar (EP231X)								
BUR_BH105_0.1		15-Dec-2021	20-Dec-2021	13-Jun-2022	✓	21-Dec-2021	29-Jan-2022	✓
HDPE Soil Jar (EP231X)								
BUR_BH102_0.2 - BUR_BH102_0.15,	BUR_BH103_0.1,	16-Dec-2021	20-Dec-2021	14-Jun-2022	✓	21-Dec-2021	29-Jan-2022	✓
BUR_BH103_5.0,	BUR_BH104_0.2,							
BUR_BH104_4.0,	BUR_BH118_0.25,							
BUR_BH119_0.25,	D01_20211216							
EP231C: Perfluoroalkyl Sulfonamides								
HDPE Soil Jar (EP231X)								
BUR_BH105_0.1		15-Dec-2021	20-Dec-2021	13-Jun-2022	✓	21-Dec-2021	29-Jan-2022	✓
HDPE Soil Jar (EP231X)								
BUR_BH102_0.2 - BUR_BH102_0.15,	BUR_BH103_0.1,	16-Dec-2021	20-Dec-2021	14-Jun-2022	✓	21-Dec-2021	29-Jan-2022	✓
BUR_BH103_5.0,	BUR_BH104_0.2,							
BUR_BH104_4.0,	BUR_BH118_0.25,							
BUR_BH119_0.25,	D01_20211216							

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Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP231D: (n:2) Fluorotelomer Sulfonic Acids							
HDPE Soil Jar (EP231X)							
BUR_BH105_0.1	**15-Dec-2021**	**20-Dec-2021**	13-Jun-2022	✓	**21-Dec-2021**	29-Jan-2022	✓
HDPE Soil Jar (EP231X)							
BUR_BH102_0.2 - BUR_BH102_0.15, BUR_BH103_0.1, BUR_BH103_5.0, BUR_BH104_0.2, BUR_BH104_4.0, BUR_BH118_0.25, BUR_BH119_0.25, D01_20211216	**16-Dec-2021**	**20-Dec-2021**	14-Jun-2022	✓	**21-Dec-2021**	29-Jan-2022	✓
EP231P: PFAS Sums							
HDPE Soil Jar (EP231X)							
BUR_BH105_0.1	**15-Dec-2021**	**20-Dec-2021**	13-Jun-2022	✓	**21-Dec-2021**	29-Jan-2022	✓
HDPE Soil Jar (EP231X)							
BUR_BH102_0.2 - BUR_BH102_0.15, BUR_BH103_0.1, BUR_BH103_5.0, BUR_BH104_0.2, BUR_BH104_4.0, BUR_BH118_0.25, BUR_BH119_0.25, D01_20211216	**16-Dec-2021**	**20-Dec-2021**	14-Jun-2022	✓	**21-Dec-2021**	29-Jan-2022	✓

Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EG020T: Total Metals by ICP-MS							
Clear Plastic Bottle - Nitric Acid; Unfiltered (EG020A-T)							
20211215_R01	**15-Dec-2021**	**22-Dec-2021**	13-Jun-2022	✓	**22-Dec-2021**	13-Jun-2022	✓
Clear Plastic Bottle - Nitric Acid; Unfiltered (EG020A-T)							
20211216_R02	**16-Dec-2021**	**22-Dec-2021**	14-Jun-2022	✓	**22-Dec-2021**	14-Jun-2022	✓
EG035T: Total Recoverable Mercury by FIMS							
Clear Plastic Bottle - Nitric Acid; Unfiltered (EG035T)							
20211215_R01	**15-Dec-2021**	**----**	----	----	**23-Dec-2021**	12-Jan-2022	✓
Clear Plastic Bottle - Nitric Acid; Unfiltered (EG035T)							
20211216_R02	**16-Dec-2021**	**----**	----	----	**23-Dec-2021**	13-Jan-2022	✓
EP066: Polychlorinated Biphenyls (PCB)							
Amber Glass Bottle - Unpreserved (EP066)							
20211215_R01	**15-Dec-2021**	**22-Dec-2021**	22-Dec-2021	✓	**24-Dec-2021**	31-Jan-2022	✓
Amber Glass Bottle - Unpreserved (EP066)							
20211216_R02	**16-Dec-2021**	**22-Dec-2021**	23-Dec-2021	✓	**24-Dec-2021**	31-Jan-2022	✓
EP068A: Organochlorine Pesticides (OC)							
Amber Glass Bottle - Unpreserved (EP068)							
20211215_R01	**15-Dec-2021**	**22-Dec-2021**	22-Dec-2021	✓	**24-Dec-2021**	31-Jan-2022	✓
Amber Glass Bottle - Unpreserved (EP068)							
20211216_R02	**16-Dec-2021**	**22-Dec-2021**	23-Dec-2021	✓	**24-Dec-2021**	31-Jan-2022	✓

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Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP068B: Organophosphorus Pesticides (OP)							
Amber Glass Bottle - Unpreserved (EP068) 20211215_R01	15-Dec-2021	22-Dec-2021	22-Dec-2021	✓	24-Dec-2021	31-Jan-2022	✓
Amber Glass Bottle - Unpreserved (EP068) 20211216_R02	16-Dec-2021	22-Dec-2021	23-Dec-2021	✓	24-Dec-2021	31-Jan-2022	✓
EP074A: Monocyclic Aromatic Hydrocarbons							
Amber VOC Vial - Sulfuric Acid (EP074) 20211215_R01	15-Dec-2021	24-Dec-2021	29-Dec-2021	✓	24-Dec-2021	29-Dec-2021	✓
Amber VOC Vial - Sulfuric Acid (EP074) 20211216_R02	16-Dec-2021	24-Dec-2021	30-Dec-2021	✓	24-Dec-2021	30-Dec-2021	✓
EP074B: Oxygenated Compounds							
Amber VOC Vial - Sulfuric Acid (EP074) 20211215_R01	15-Dec-2021	24-Dec-2021	29-Dec-2021	✓	24-Dec-2021	29-Dec-2021	✓
Amber VOC Vial - Sulfuric Acid (EP074) 20211216_R02	16-Dec-2021	24-Dec-2021	30-Dec-2021	✓	24-Dec-2021	30-Dec-2021	✓
EP074C: Sulfonated Compounds							
Amber VOC Vial - Sulfuric Acid (EP074) 20211215_R01	15-Dec-2021	24-Dec-2021	29-Dec-2021	✓	24-Dec-2021	29-Dec-2021	✓
Amber VOC Vial - Sulfuric Acid (EP074) 20211216_R02	16-Dec-2021	24-Dec-2021	30-Dec-2021	✓	24-Dec-2021	30-Dec-2021	✓
EP074D: Fumigants							
Amber VOC Vial - Sulfuric Acid (EP074) 20211215_R01	15-Dec-2021	24-Dec-2021	29-Dec-2021	✓	24-Dec-2021	29-Dec-2021	✓
Amber VOC Vial - Sulfuric Acid (EP074) 20211216_R02	16-Dec-2021	24-Dec-2021	30-Dec-2021	✓	24-Dec-2021	30-Dec-2021	✓
EP074E: Halogenated Aliphatic Compounds							
Amber VOC Vial - Sulfuric Acid (EP074) 20211215_R01	15-Dec-2021	24-Dec-2021	29-Dec-2021	✓	24-Dec-2021	29-Dec-2021	✓
Amber VOC Vial - Sulfuric Acid (EP074) 20211216_R02	16-Dec-2021	24-Dec-2021	30-Dec-2021	✓	24-Dec-2021	30-Dec-2021	✓
EP074F: Halogenated Aromatic Compounds							
Amber VOC Vial - Sulfuric Acid (EP074) 20211215_R01	15-Dec-2021	24-Dec-2021	29-Dec-2021	✓	24-Dec-2021	29-Dec-2021	✓
Amber VOC Vial - Sulfuric Acid (EP074) 20211216_R02	16-Dec-2021	24-Dec-2021	30-Dec-2021	✓	24-Dec-2021	30-Dec-2021	✓
EP074G: Trihalomethanes							
Amber VOC Vial - Sulfuric Acid (EP074) 20211215_R01	15-Dec-2021	24-Dec-2021	29-Dec-2021	✓	24-Dec-2021	29-Dec-2021	✓
Amber VOC Vial - Sulfuric Acid (EP074) 20211216_R02	16-Dec-2021	24-Dec-2021	30-Dec-2021	✓	24-Dec-2021	30-Dec-2021	✓

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Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons							
Amber Glass Bottle - Unpreserved (EP075(SIM)) 20211215_R01	15-Dec-2021	22-Dec-2021	22-Dec-2021	✓	24-Dec-2021	31-Jan-2022	✓
Amber Glass Bottle - Unpreserved (EP075(SIM)) 20211216_R02	16-Dec-2021	22-Dec-2021	23-Dec-2021	✓	24-Dec-2021	31-Jan-2022	✓
EP080/071: Total Petroleum Hydrocarbons							
Amber Glass Bottle - Unpreserved (EP071) 20211215_R01	15-Dec-2021	22-Dec-2021	22-Dec-2021	✓	24-Dec-2021	31-Jan-2022	✓
Amber Glass Bottle - Unpreserved (EP071) 20211216_R02	16-Dec-2021	22-Dec-2021	23-Dec-2021	✓	24-Dec-2021	31-Jan-2022	✓
Amber VOC Vial - Sulfuric Acid (EP080) 20211215_R01	15-Dec-2021	24-Dec-2021	29-Dec-2021	✓	24-Dec-2021	29-Dec-2021	✓
Amber VOC Vial - Sulfuric Acid (EP080) 20211216_R02	16-Dec-2021	24-Dec-2021	30-Dec-2021	✓	24-Dec-2021	30-Dec-2021	✓
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions							
Amber Glass Bottle - Unpreserved (EP071) 20211215_R01	15-Dec-2021	22-Dec-2021	22-Dec-2021	✓	24-Dec-2021	31-Jan-2022	✓
Amber Glass Bottle - Unpreserved (EP071) 20211216_R02	16-Dec-2021	22-Dec-2021	23-Dec-2021	✓	24-Dec-2021	31-Jan-2022	✓
Amber VOC Vial - Sulfuric Acid (EP080) 20211215_R01	15-Dec-2021	24-Dec-2021	29-Dec-2021	✓	24-Dec-2021	29-Dec-2021	✓
Amber VOC Vial - Sulfuric Acid (EP080) 20211216_R02	16-Dec-2021	24-Dec-2021	30-Dec-2021	✓	24-Dec-2021	30-Dec-2021	✓
EP080: BTEXN							
Amber VOC Vial - Sulfuric Acid (EP080) 20211215_R01	15-Dec-2021	24-Dec-2021	29-Dec-2021	✓	24-Dec-2021	29-Dec-2021	✓
Amber VOC Vial - Sulfuric Acid (EP080) 20211216_R02	16-Dec-2021	24-Dec-2021	30-Dec-2021	✓	24-Dec-2021	30-Dec-2021	✓
EP231A: Perfluoroalkyl Sulfonic Acids							
HDPE (no PTFE) (EP231X) 20211215_R01	15-Dec-2021	24-Dec-2021	13-Jun-2022	✓	24-Dec-2021	13-Jun-2022	✓
HDPE (no PTFE) (EP231X) 20211216_R02	16-Dec-2021	24-Dec-2021	14-Jun-2022	✓	24-Dec-2021	14-Jun-2022	✓
EP231B: Perfluoroalkyl Carboxylic Acids							
HDPE (no PTFE) (EP231X) 20211215_R01	15-Dec-2021	24-Dec-2021	13-Jun-2022	✓	24-Dec-2021	13-Jun-2022	✓
HDPE (no PTFE) (EP231X) 20211216_R02	16-Dec-2021	24-Dec-2021	14-Jun-2022	✓	24-Dec-2021	14-Jun-2022	✓
EP231C: Perfluoroalkyl Sulfonamides							
HDPE (no PTFE) (EP231X) 20211215_R01	15-Dec-2021	24-Dec-2021	13-Jun-2022	✓	24-Dec-2021	13-Jun-2022	✓
HDPE (no PTFE) (EP231X) 20211216_R02	16-Dec-2021	24-Dec-2021	14-Jun-2022	✓	24-Dec-2021	14-Jun-2022	✓

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Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP231D: (n:2) Fluorotelomer Sulfonic Acids							
HDPE (no PTFE) (EP231X) 20211215_R01	15-Dec-2021	24-Dec-2021	13-Jun-2022	✓	24-Dec-2021	13-Jun-2022	✓
HDPE (no PTFE) (EP231X) 20211216_R02	16-Dec-2021	24-Dec-2021	14-Jun-2022	✓	24-Dec-2021	14-Jun-2022	✓
EP231P: PFAS Sums							
HDPE (no PTFE) (EP231X) 20211215_R01	15-Dec-2021	24-Dec-2021	13-Jun-2022	✓	24-Dec-2021	13-Jun-2022	✓
HDPE (no PTFE) (EP231X) 20211216_R02	16-Dec-2021	24-Dec-2021	14-Jun-2022	✓	24-Dec-2021	14-Jun-2022	✓

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Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(were) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

Matrix: **SOIL**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Laboratory Duplicates (DUP)							
Moisture Content	EA055	4	26	**15.38**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (SIM)	EP075(SIM)	2	16	**12.50**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	2	16	**12.50**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	2	16	**12.50**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	2	16	**12.50**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	2	19	**10.53**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds	EP074	2	12	**16.67**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
PAH/Phenols (SIM)	EP075(SIM)	1	16	**6.25**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	1	16	**6.25**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	1	16	**6.25**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	16	**6.25**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds	EP074	1	12	**8.33**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
PAH/Phenols (SIM)	EP075(SIM)	1	16	**6.25**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	1	16	**6.25**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	1	16	**6.25**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	16	**6.25**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds	EP074	1	12	**8.33**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
PAH/Phenols (SIM)	EP075(SIM)	1	16	**6.25**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	1	16	**6.25**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	1	16	**6.25**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard

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Matrix: **SOIL**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Matrix Spikes (MS) - Continued							
Total Metals by ICP-AES	EG005T	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	16	**6.25**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds	EP074	1	12	**8.33**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard

Matrix: **WATER**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Laboratory Duplicates (DUP)							
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	0	7	**0.00**	**10.00**	×	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	2	19	**10.53**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	0	3	**0.00**	**10.00**	×	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	0	3	**0.00**	**10.00**	×	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	18	**11.11**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-MS - Suite A	EG020A-T	2	17	**11.76**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	0	9	**0.00**	**10.00**	×	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds	EP074	2	19	**10.53**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	1	7	**14.29**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	1	3	**33.33**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	1	3	**33.33**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-MS - Suite A	EG020A-T	1	17	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	9	**11.11**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds	EP074	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	1	7	**14.29**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	1	3	**33.33**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	1	3	**33.33**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-MS - Suite A	EG020A-T	1	17	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	9	**11.11**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds	EP074	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	0	7	**0.00**	**5.00**	×	NEPM 2013 B3 & ALS QC Standard

Matrix: **WATER**

Evaluation: ✗ = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Matrix Spikes (MS) - Continued							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	0	3	**0.00**	**5.00**	✗	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	0	3	**0.00**	**5.00**	✗	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-MS - Suite A	EG020A-T	1	17	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	0	9	**0.00**	**5.00**	✗	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds	EP074	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard

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Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
Moisture Content	EA055	SOIL	In house: A gravimetric procedure based on weight loss over a 12 hour drying period at 105-110 degrees C. This method is compliant with NEPM Schedule B(3).
Asbestos Identification in Soils	EA200	SOIL	AS 4964 Method for the qualitative identification of asbestos in bulk samples Analysis by Polarised Light Microscopy including dispersion staining
Total Metals by ICP-AES	EG005T	SOIL	In house: Referenced to APHA 3120; USEPA SW 846 - 6010. Metals are determined following an appropriate acid digestion of the soil. The ICPAES technique ionises samples in a plasma, emitting a characteristic spectrum based on metals present. Intensities at selected wavelengths are compared against those of matrix matched standards. This method is compliant with NEPM Schedule B(3)
Total Mercury by FIMS	EG035T	SOIL	In house: Referenced to APHA 3112 Hg - B (Flow-injection (SnCl2) (Cold Vapour generation) AAS) FIM-AAS is an automated flameless atomic absorption technique. Mercury in solids are determined following an appropriate acid digestion. Ionic mercury is reduced online to atomic mercury vapour by SnCl2 which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM Schedule B(3)
Polychlorinated Biphenyls (PCB)	EP066	SOIL	In house: Referenced to USEPA SW 846 - 8270 Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3).
Pesticides by GCMS	EP068	SOIL	In house: Referenced to USEPA SW 846 - 8270 Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This technique is compliant with NEPM Schedule B(3).
TRH - Semivolatile Fraction	EP071	SOIL	In house: Referenced to USEPA SW 846 - 8015 Sample extracts are analysed by Capillary GC/FID and quantified against alkane standards over the range C10 - C40. Compliant with NEPM Schedule B(3).
Volatile Organic Compounds	EP074	SOIL	In house: Referenced to USEPA SW 846 - 8260 Extracts are analysed by Purge and Trap, Capillary GC/MS. Quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3).
PAH/Phenols (SIM)	EP075(SIM)	SOIL	In house: Referenced to USEPA SW 846 - 8270. Extracts are analysed by Capillary GC/MS in Selective Ion Mode (SIM) and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3)
TRH Volatiles/BTEX	EP080	SOIL	In house: Referenced to USEPA SW 846 - 8260. Extracts are analysed by Purge and Trap, Capillary GC/MS. Quantification is by comparison against an established 5 point calibration curve. Compliant with NEPM Schedule B(3) amended.
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	SOIL	In-house: Analysis of soils by solvent extraction followed by LC-Electrospray-MS-MS, Negative Mode using MRM using internal standard quantitation. Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to a portion of soil which is then extracted with MTBE and an ion pairing reagent. A portion of extract is exchanged into the analytical solvent mixture, combined with an equal volume reagent water and filtered for analysis. Method procedures and data quality objectives conform to US DoD QSM 5.3, table B-15 requirements.

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Analytical Methods	Method	Matrix	Method Descriptions
Total Metals by ICP-MS - Suite A	EG020A-T	WATER	In house: Referenced to APHA 3125; USEPA SW846 - 6020, ALS QWI-EN/EG020. The ICPMS technique utilizes a highly efficient argon plasma to ionize selected elements. Ions are then passed into a high vacuum mass spectrometer, which separates the analytes based on their distinct mass to charge ratios prior to their measurement by a discrete dynode ion detector.
Total Mercury by FIMS	EG035T	WATER	In house: Referenced to APHA 3112 Hg - B (Flow-injection (SnCl2)(Cold Vapour generation) AAS) FIM-AAS is an automated flameless atomic absorption technique. A bromate/bromide reagent is used to oxidise any organic mercury compounds in the unfiltered sample. The ionic mercury is reduced online to atomic mercury vapour by SnCl2 which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM Schedule B(3).
Polychlorinated Biphenyls (PCB)	EP066	WATER	In house: Referenced to USEPA SW 846 - 8270 Sample extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3)
Pesticides by GCMS	EP068	WATER	In house: Referenced to USEPA SW 846 - 8270 Sample extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3)
TRH - Semivolatile Fraction	EP071	WATER	In house: Referenced to USEPA SW 846 - 8015 The sample extract is analysed by Capillary GC/FID and quantification is by comparison against an established 5 point calibration curve of n-Alkane standards. This method is compliant with the QC requirements of NEPM Schedule B(3)
Volatile Organic Compounds	EP074	WATER	In house: Referenced to USEPA SW 846 - 8260 Water samples are directly purged prior to analysis by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3)
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	WATER	In house: Referenced to USEPA SW 846 - 8270 Sample extracts are analysed by Capillary GC/MS in SIM Mode and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3)
TRH Volatiles/BTEX	EP080	WATER	In house: Referenced to USEPA SW 846 - 8260 Water samples are directly purged prior to analysis by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. Alternatively, a sample is equilibrated in a headspace vial and a portion of the headspace determined by GCMS analysis. This method is compliant with the QC requirements of NEPM Schedule B(3)
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	WATER	In-house: Analysis of fresh and saline waters by Solid Phase Extraction (SPE) followed by LC-Electrospray-MS-MS, Negative Mode using MRM and internal standard quantitation. Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to the sample container. The entire contents are transferred to a solid phase extraction (SPE) cartridge. The sample container is successively rinsed with aliquots of the elution solvent. The eluted extract is combined with an equal volume of reagent water and a portion is filtered for analysis. Method procedures and data quality objectives conform to US DoD QSM 5.3, table B-15 requirements.

Preparation Methods	Method	Matrix	Method Descriptions
Hot Block Digest for metals in soils sediments and sludges	EN69	SOIL	In house: Referenced to USEPA 200.2. Hot Block Acid Digestion 1.0g of sample is heated with Nitric and Hydrochloric acids, then cooled. Peroxide is added and samples heated and cooled again before being filtered and bulked to volume for analysis. Digest is appropriate for determination of selected metals in sludge, sediments, and soils. This method is compliant with NEPM Schedule B(3).

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Preparation Methods	Method	Matrix	Method Descriptions
Methanolic Extraction of Soils for Purge and Trap	ORG16	SOIL	In house: Referenced to USEPA SW 846 - 5030A. 5g of solid is shaken with surrogate and 10mL methanol prior to analysis by Purge and Trap - GC/MS.
Tumbler Extraction of Solids	ORG17	SOIL	In house: Mechanical agitation (tumbler). 10g of sample, Na2SO4 and surrogate are extracted with 30mL 1:1 DCM/Acetone by end over end tumble. The solvent is decanted, dehydrated and concentrated (by KD) to the desired volume for analysis.
QuECheRS Extraction of Solids	ORG71	SOIL	In house: Sequential extractions with Acetonitrile/Methanol by shaking. Extraction efficiency aided by the addition of salts under acidic conditions. Where relevant, interferences from co-extracted organics are removed with dispersive clean-up media (dSPE). The extract is either diluted or concentrated and exchanged into the analytical solvent.
Digestion for Total Recoverable Metals	EN25	WATER	In house: Referenced to USEPA SW846-3005. Method 3005 is a Nitric/Hydrochloric acid digestion procedure used to prepare surface and ground water samples for analysis by ICPAES or ICPMS. This method is compliant with NEPM Schedule B(3)
Separatory Funnel Extraction of Liquids	ORG14	WATER	In house: Referenced to USEPA SW 846 - 3510 100 mL to 1L of sample is transferred to a separatory funnel and serially extracted three times using DCM for each extract. The resultant extracts are combined, dehydrated and concentrated for analysis. This method is compliant with NEPM Schedule B(3) . ALS default excludes sediment which may be resident in the container.
Volatiles Water Preparation	ORG16-W	WATER	A 5 mL aliquot or 5 mL of a diluted sample is added to a 40 mL VOC vial for purging.
Solid Phase Extraction (SPE) for PFAS in water	ORG72	WATER	In-house: Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to the sample container. The entire contents are transferred to a solid phase extraction (SPE) cartridge. The sample container is successively rinsed with aliquots of the elution solvent. The eluted extract is combined with an equal volume of reagent water and a portion is filtered for analysis. Method procedures conform to US DoD QSM 5.3, table B-15 requirements.

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CHAIN OF CUSTODY

ALS Laboratory: please tick →

ADELAIDE 21 Burma Road Pooraka SA 5095 Ph: 08 8359 0890 E: adelaide@alsglobal.com
BRISBANE 32 Shand Street Stafford QLD 4053 Ph: 07 3243 7222 E: samples.brisbane@alsglobal.com
GLADSTONE 46 Callemondah Drive Clinton QLD 4680 Ph: 07 7471 5600 E: gladstone@alsglobal.com
MACKAY 78 Harbour Road Mackay QLD 4740 Ph: 07 4944 0177 E: mackay@alsglobal.com
MELBOURNE 4-5 Westall Road Springvale VIC 3171 Ph: 03 8549 9600 E: samples.melbourne@alsglobal.com
PERTH 10 Hod Way Malaga WA 6090 Ph: 08 9209 7655 E: samples.perth@alsglobal.com
SYDNEY 277-289 Woodpark Road Smithfield NSW 2164 Ph: 02 8784 8555 E: samples.sydney@alsglobal.com
TOWNSVILLE 14-15 Desma Court Bohle QLD 4818 Ph: 07 4796 0600 E: townsville.environmental@alsglobal.com
WOLLONGONG 99 Kenny Street Wollongong NSW 2500 Ph: 02 4225 3125 E: wollongong@alsglobal.com

CLIENT: ERM	**TURNAROUND REQUIREMENTS :** (Standard TAT may be longer for some tests e.g. Ultra Trace Organics)	☐ Standard TAT (List due date):	**FOR LABORATORY USE ONLY (Circle)**
OFFICE: Sydney		☐ Non Standard or urgent TAT (List due date):	Custody Seal Intact? Yes / No / N/A
PROJECT: 0577577 - Burwood	**ALS QUOTE NO.:**	**COC SEQUENCE NUMBER (Circle)** COC: 1 2 3 4 5 6 7	Free ice / frozen ice bricks present upon receipt? Yes / No / N/A
ORDER NUMBER:		OF: 1 2 3 4 5 6 7	Random Sample Temperature on Receipt: °C
PROJECT MANAGER: Jessica Lawrence	**CONTACT PH:** 0404935554		Other comment:
SAMPLER: Tristan Rodrigues / Madushani Bolonghe	**SAMPLER MOBILE:** 0417187687 / 0449091150		
COC emailed to ALS? YES	**EDD FORMAT (or default):**		
Email Reports to (will default to PM if no other addresses are listed): jessica.lawrence@erm.com, tristan.rodrigues@erm.com			
Email Invoice to (will default to PM if no other addresses are listed): jessica.lawrence@erm.com			

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Madushani Bolonghe			
DATE/TIME: 17/12/2021	DATE/TIME: 17/12/21 1850	DATE/TIME:	DATE/TIME:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE	SAMPLE DETAILS MATRIX: SOLID (S) WATER (W)			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required).								Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL CONTAINERS	PFAS (28 analytes) LOR = 5ug/kg	S16	Asbestos ID	VOC	BTEXN			Hold	Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc.
1	BUR_BH105_0.1	15/12/2021	S			x	x	x	x					
2	BUR_BH105_1.0	15/12/2021	S										x	
3	BUR_BH105_2.0	15/12/2021	S										x	
4	BUR_BH105_3.0	15/12/2021	S				x							
5	20211215_R01	15/12/2021	W			x	x		x					
6	Trip Blank	15/12/2021	S							x				
7	Trip Spike	15/12/2021	S							x				

Environmental Division Sydney
Work Order Reference
ES2146476

Telephone : +61-2-8784 8555

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ALS Laboratory: please tick →

CLIENT: ERM	TURNAROUND REQUIREMENTS : ☐ Standard TAT (List due date):	FOR LABORATORY USE ONLY (Circle)	
OFFICE: Sydney	(Standard TAT may be longer for some tests e.g. Ultra Trace Organics) ☐ Non Standard or urgent TAT (List due date):	Custody Seal Intact?	Yes / No / N/A
PROJECT: 0577577 - Burwood	ALS QUOTE NO.:	Free Ice / Blue Ice Packs Present upon receipt?	Yes / No / N/A
ORDER NUMBER:	COC SEQUENCE NUMBER (Circle) COC: 1 2 3 4 5 6 7 OF: 1 2 3 4 5 6 7	Random Sample Temperature on Receipt:	2.5 °C
PROJECT MANAGER: Jessica Lawrence	CONTACT PH: 0404935554	Other comment:	
SAMPLER: Tristan Rodrigues / Madushani Bolonghe	SAMPLER MOBILE: 0417187687 / 0449091150	RELINQUISHED BY:	RECEIVED BY:
COC emailed to ALS? YES	EDD FORMAT (or default):	*Madushani Bolonghe*	
Email Reports to (will default to PM if no other addresses are listed): jessica.lawrence@erm.com, tristan.rodrigues@erm.com		DATE/TIME: 17/12/2021	DATE/TIME: 17/12/21 1800
Email Invoice to (will default to PM if no other addresses are listed): jessica.lawrence@erm.com		RELINQUISHED BY:	RECEIVED BY:
		DATE/TIME:	DATE/TIME:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE	SAMPLE DETAILS MATRIX: SOLID (S) WATER (W)			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required).								Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL CONTAINERS	PFAS (28 analytes) LOR = 5ug/kg	S16	Asbestos ID	VOC	BTEXN			Hold	Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc.
8	BUR_BH102_0.2	16/12/2021	S			x	x	x	x					
9	BUR_BH102_1.0	16/12/2021	S										x	
10	BUR_BH102_2.0	16/12/2021	S				x							
11	BUR_BH102_3.0	16/12/2021	S										x	
12	BUR_BH103_0.1	16/12/2021	S			x	x	x	x					
13	BUR_BH103_0.7	16/12/2021	S				x		x					
14	BUR_BH103_1.0	16/12/2021	S										x	
15	BUR_BH103_2.0	16/12/2021	S										x	
16	BUR_BH103_3.0	16/12/2021	S										x	
17	BUR_BH103_4.0	16/12/2021	S										x	
18	BUR_BH103_5.0	16/12/2021	S			x	x		x					

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ALS Environmental [illegible]

[illegible]

BRISBANE: 32 Shand Street Stafford QLD 4053 Ph: 07 3243 7222 E: samples.brisbane@alsglobal.com

GLADSTONE: 46 Callemondah Drive Clinton QLD 4680 Ph: 07 7471 5600 E: gladstone@alsglobal.com

MACKAY: 78 Harbour Road Mackay QLD 4740 Ph: 07 4944 0177 E: mackay@alsglobal.com

MELBOURNE: Unit 1, 2 Dalton Road Springvale VIC 3171 Ph: 03 8549 9600 E: samples.melbourne@alsglobal.com

UNCONTROLLED: Unit 2, 4 Westall Road Springvale VIC 3171 Ph: 03 8549 9600 E: samples.melbourne@alsglobal.com

NEWCASTLE: 4/265 Metford Rd Mayfield West NSW 2304 Ph: 02 4014 2500 E: samples.newcastle@alsglobal.com

UNCONTROLLED: 4/13 Geary Place North Nowra NSW 2541 Ph: (02)4422 2063 E: nowra@alsglobal.com

PERTH: 10 Hod Way Malaga WA 6090 Ph: 08 9209 7655 E: samples.perth@alsglobal.com

SYDNEY: 277 Woodpark Road Smithfield NSW 2164 Ph: 02 7784 8555 E: samples.sydney@alsglobal.com

CANBERRA: 14-16 Dacres Court Stirling ACT 2611 Ph: 02 6260 2600 E: canberra.environmental@alsglobal.com

UNCONTROLLED: 90 Kenny Street Wollongong NSW 2500 Ph: 02 4225 3125 E: wollongong@alsglobal.com

CLIENT: ERM	**TURNAROUND REQUIREMENTS :** ☐ Standard TAT (List due date):	**FOR LABORATORY USE ONLY (Circle)**	
OFFICE: Sydney	(Standard TAT may be longer for some tests e.g. Ultra Trace Organics) ☐ Non Standard or urgent TAT (List due date):	Custody Seal Intact?	Yes / No / N/A
PROJECT: 0577577 - Burwood	**ALS QUOTE NO.:**	Free ice / frozen ice bricks present upon receipt?	Yes / No / N/A
ORDER NUMBER:	**COC SEQUENCE NUMBER (Circle)** COC: 1 2 3 4 5 6 7	Random Sample Temperature on Receipt:	2.6 °C
PROJECT MANAGER: Jessica Lawrence	**CONTACT PH:** 0404935554 OF: 1 2 3 4 5 6 7	Other comment:	

SAMPLER: Tristan Rodrigues / Madushani Bolonghe	**SAMPLER MOBILE:** 0417187687 / 0449091150	**RELINQUISHED BY:**	**RECEIVED BY:**	**RELINQUISHED BY:**	**RECEIVED BY:**
COC emailed to ALS? YES	**EDD FORMAT (or default):**	*Madushani Bolonghe*			
Email Reports to (will default to PM if no other addresses are listed): jessica.lawrence@erm.com, tristan.rodrigues@erm.com		DATE/TIME:	DATE/TIME: 17/12/21 1850	DATE/TIME:	DATE/TIME:
Email Invoice to (will default to PM if no other addresses are listed): jessica.lawrence@erm.com		17/12/2021			

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE	SAMPLE DETAILS MATRIX: SOLID (S) WATER (W)			CONTAINER INFORMATION		ANALYSIS REQUIRED Including SUITES (NB. Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required).								Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL CONTAINERS	PFAS (28 analytes) LOR = 5ug/kg	S16	Asbestos ID	VOC	BTEXN			Hold	Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc.
19	BUR_BH104_0.2	16/12/2021	S			x	x	x	x					
20	BUR_BH104_1.0	16/12/2021	S				x		x					
21	BUR_BH104_2.0	16/12/2021	S										x	
22	BUR_BH104_3.0	16/12/2021	S										x	
23	BUR_BH104_4.0	16/12/2021	S			x	x							
24	BUR_BH104_5.0	16/12/2021	S										x	
25	BUR_BH118_0.25	16/12/2021	S			x	x	x	x					
26	BUR_BH118_1.0	16/12/2021	S										x	

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ALS Laboratory: please tick →

CLIENT: ERM	TURNAROUND REQUIREMENTS : ☐ Standard TAT (List due date):	FOR LABORATORY USE ONLY (Circle)
OFFICE: Sydney	(Standard TAT may be longer for some tests e.g. Ultra Trace Organics) ☐ Non Standard or urgent TAT (List due date):	Custody Seal Intact? Yes No N/A
PROJECT: 0577577 - Burwood	ALS QUOTE NO.:	Free ice / frozen ice bricks present upon receipt? Yes No N/A
ORDER NUMBER:	COC SEQUENCE NUMBER (Circle) COC: 1 2 3 4 5 6 7	Random Sample Temperature on Receipt: °C
PROJECT MANAGER: Jessica Lawrence	CONTACT PH: 0404935554 OF: 1 2 3 4 5 6 7	Other comment: 7.6
SAMPLER: Tristan Rodrigues / Madushani Bolonghe	SAMPLER MOBILE: 0417187687 / 0449091150	RELINQUISHED BY: Madushani Bolonghe
COC emailed to ALS? YES	EDD FORMAT (or default):	RECEIVED BY:
Email Reports to (will default to PM if no other addresses are listed): jessica.lawrence@erm.com, tristan.rodrigues@erm.com		DATE/TIME: 17/12/2021
Email Invoice to (will default to PM if no other addresses are listed): jessica.lawrence@erm.com		RELINQUISHED BY: DATE/TIME:
		RECEIVED BY: DATE/TIME:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE	SAMPLE DETAILS MATRIX: SOLID (S) WATER (W)			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required).								Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL CONTAINERS	PFAS (28 analytes) LOR = 5ug/kg	S16	Asbestos ID	VOC	BTEXN			Hold	Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc.
27	BUR_BH118_1.5	16/12/2021	S				x		x					
28	BUR_BH118_2.0	16/12/2021	S										x	
29	BUR_BH118_0.25	16/12/2021	S			x	x	x	x					
30	BUR_BH119_1.0	16/12/2021	S				x		x					
31	D01_20211216	16/12/2021	S			x	x		x					
32	T01_20211216	16/12/2021	S			x	x		x					Please forward to Eurofins
33	20211216_R02	16/12/2021	W			x	x		x					
34	Trip Blank	16/12/2021	S							x				
35	Trip Spike	16/12/2021	S							x				
					TOTAL									

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide/Cd Preserved; S = Sodium Hydroxide Preserved Plastic; AG = Amber Glass Unpreserved; AP - Airfreight Unpreserved Plastic
V = VOA Vial HCl Preserved; VB = VOA Vial Sodium Bisulphate Preserved; VS = VOA Vial Sulfuric Preserved; AV = Airfreight Unpreserved Vial SG = Sulfuric Preserved Amber Glass; H = HCl preserved Plastic; HS = HCl preserved Speciation bottle; SP = Sulfuric Preserved Plastic; F = Formaldehyde
Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; ASS = Plastic Bag for Acid Sulphate Soils; B = Unpreserved Bag

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CHAIN OF CUSTODY

ALS Laboratory: please tick →

ADELAIDE 21 Burma Road Pooraka SA 5095 Ph: 08 8359 0890 E: adelaide@alsglobal.com

BRISBANE 32 Shand Street Stafford QLD 4053 Ph: 07 3243 7222 E: samples.brisbane@alsglobal.com

GOLDCOAST 46 Callemondah Drive Clinton QLD 4680 Ph: 07 7471 5699 E: goldcoast@alsglobal.com

MACKAY 78 Harbour Road Mackay QLD 4740 Ph: 07 4944 0177 E: mackay@alsglobal.com

MELBOURNE 4 Westall Road Springvale VIC 3171 Ph: 03 8549 9600 E: samples.melbourne@alsglobal.com

PERTH 10 Hod Way Malaga WA 6090 Ph: 08 9209 7655 E: samples.perth@alsglobal.com

SYDNEY 277-289 Woodpark Road Smithfield NSW 2164 Ph: 02 8784 8555 E: samples.sydney@alsglobal.com

TOWNSVILLE 14-15 Desma Court Bohle QLD 4818 Ph: 07 4796 0600 E: townsville.environmental@alsglobal.com

WAGGA WAGGA 89 Kerr Street Wollongong NSW 2500 Ph: 02 4225 3125 E: portkembla@alsglobal.com

CLIENT: ERM	TURNAROUND REQUIREMENTS : (Standard TAT may be longer for some tests e.g. Ultra Trace Organics)	☐ Standard TAT (List due date):	FOR LABORATORY USE ONLY (Circle)
OFFICE: Sydney		☐ Non Standard or urgent TAT (List due date):	Custody Seal Intact? Yes No N/A
PROJECT: 0577577 - Burwood	ALS QUOTE NO.:	COC SEQUENCE NUMBER (Circle)	Free Ice / Frozen Ice bricks present upon receipt? Yes No N/A
ORDER NUMBER:		COC: 1 2 3 4 5 6 7	Random Sample Temperature on Receipt °C
PROJECT MANAGER: Jessica Lawrence	CONTACT PH: 0404935554	OF: 1 2 3 4 5 6 7	Cooling Method: Ice Gel
SAMPLER: Tristan Rodrigues / Madushani Bolonghe	SAMPLER MOBILE: 0417187687 / 0449091150		Comments: 2 Esky
COC emailed to ALS? YES	EDD FORMAT (or default):		
Email Reports to (will default to PM if no other addresses are listed): jessica.lawrence@erm.com, tristan.rodrigues@erm.com			
Email Invoice to (will default to PM if no other addresses are listed): jessica.lawrence@erm.com			

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Madushani Bolonghe			
DATE/TIME: 17/12/2021	DATE/TIME: 17/12/21 1850	DATE/TIME:	DATE/TIME:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE	SAMPLE DETAILS MATRIX: SOLID (S) WATER (W)			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required).								Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL CONTAINERS	PFAS (28 analytes) LOR = 5ug/kg	S16	Asbestos ID	VOC	BTEXN			Hold	Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc.
1	BUR_BH105_0.1	15/12/2021	S			x	x	x	x					
2	BUR_BH105_1.0	15/12/2021	S										x	
3	BUR_BH105_2.0	15/12/2021	S										x	
4	BUR_BH105_3.0	15/12/2021	S				x							
5	20211215_R01	15/12/2021	W			x	x		x					
6	Trip Blank	15/12/2021	S							x				
7	Trip Spike 22	15/12/2021	S							x				

Environmental Division Sydney

Work Order Reference

ES2146476

Telephone : + 61-2-8784 8555

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CHAIN OF CUSTODY

ALS Laboratory: please tick →

CLIENT: ERM	TURNAROUND REQUIREMENTS : (Standard TAT may be longer for some tests e.g. Ultra Trace Organics)	☐ Standard TAT (List due date):	FOR LABORATORY USE ONLY (Circle)
OFFICE: Sydney		☐ Non Standard or urgent TAT (List due date):	Custody Seal Intact? Yes / No / N/A
PROJECT: 0577577 - Burwood	ALS QUOTE NO.:	COC SEQUENCE NUMBER (Circle)	Free ice / frozen ice bricks present upon receipt? Yes / No / N/A
ORDER NUMBER:		COC: 1 2 3 4 5 6 7	Random Sample Temperature on Receipt: 7.6 °C
PROJECT MANAGER: Jessica Lawrence	CONTACT PH: 0404935554	OF: 1 2 3 4 5 6 7	Other comment:

SAMPLER: Tristan Rodrigues / Madushani Bolonghe	SAMPLER MOBILE: 0417187687 / 0449091150	RELINQUISHED BY: Madushani Bolonghe	RECEIVED BY: Sotiris ALS	RELINQUISHED BY:
COC emailed to ALS? YES	EDD FORMAT (or default):			
Email Reports to (will default to PM if no other addresses are listed): jessica.lawrence@erm.com, tristan.rodrigues@erm.com		DATE/TIME: 17/12/2021	DATE/TIME: 17/12/21 1850	DATE/TIME:
Email Invoice to (will default to PM if no other addresses are listed): jessica.lawrence@erm.com				

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE	SAMPLE DETAILS MATRIX: SOLID (S) WATER (W)			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required).								Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL CONTAINERS	PFAS (28 analytes) LOR = 5ug/kg	S15	Asbestos ID	VOC	BTEXN			Hold	Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc.
8	BUR_BH102_0.2 received as 0.15	16/12/2021	S			x	x	x	x					
9	BUR_BH102_1.0	16/12/2021	S										x	
10	BUR_BH102_2.0	16/12/2021	S				x							
11	BUR_BH102_3.0	16/12/2021	S										x	
12	BUR_BH103_0.1	16/12/2021	S			x	x	x	x					
13	BUR_BH103_0.7	16/12/2021	S				x		x					
14	BUR_BH103_1.0	16/12/2021	S										x	
15	BUR_BH103_2.0	16/12/2021	S										x	
16	BUR_BH103_3.0	16/12/2021	S										x	
17	BUR_BH103_4.0	16/12/2021	S										x	
18	BUR_BH103_5.0	16/12/2021	S			x	x		x					

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CHAIN OF CUSTODY

ALS Laboratory: please tick →

ADELAIDE 21 Burma Road Pooraka SA 5095 Ph: 08 8359 0890 E: adelaide@alsglobal.com
GERMAINE 70 Leyland Street Garbutt QLD 4814 Ph: 07 4796 0700 E: samples.brisbane@alsglobal.com
GLADSTONE 46 Callemondah Drive Clinton QLD 4680 Ph: 07 7471 5692 E: gladstone@alsglobal.com
MACKAY 78 Harbour Road Mackay QLD 4740 Ph: 07 4944 0177 E: mackay@alsglobal.com
TOWNSVILLE Unit 3 4 Westland Court Garbutt QLD 4814 Ph: 07 4796 0700 E: samples.townsville@alsglobal.com
BRISBANE 27 Sydney Road Murarrie NSW 2205 Ph: 02 8572 6715 E: murarrie.mail@alsglobal.com
NEWCASTLE Unit 1/5 Midland Rd Maitland NSW 2320 Ph: 02 4014 2500 E: samples.newcastle@alsglobal.com
CANBERRA 4/13 Geary Place North Nowra NSW 2541 Ph: (02) 4423 2063 E: nowra@alsglobal.com
PERTH 10 Hod Way Malaga WA 6090 Ph: 08 9209 7400 E: samples.perth@alsglobal.com
SYDNEY 277-289 Woodpark Road Smithfield NSW 2164 Ph: 02 8784 8555 E: sydney.environmental@alsglobal.com
TOOWOOMBA 2/13 Lee Street Harristown QLD 4350 Ph: 07 4614 7133 E: toowoomba.environmental@alsglobal.com
WOLLONGONG 99 Kenny Street Wollongong NSW 2500 Ph: 02 4225 3125 E: wollongong@alsglobal.com

CLIENT: ERM	**TURNAROUND REQUIREMENTS :** (Standard TAT may be longer for some tests e.g., Ultra Trace Organics)	☐ Standard TAT (List due date):	**FOR LABORATORY USE ONLY (Circle)**
OFFICE: Sydney		☐ Non Standard or urgent TAT (List due date):	Custody Seal Intact? Yes / No / N/A
PROJECT: 0577577 - Burwood	**ALS QUOTE NO.:**	**COC SEQUENCE NUMBER (Circle)** COC: 1 2 3 4 5 6 7	Free ice / frozen ice bricks present upon receipt? Yes / No / N/A
ORDER NUMBER:		OF: 1 2 3 4 5 6 7	Random Sample Temperature on Receipt: 2.5 °C
PROJECT MANAGER: Jessica Lawrence	**CONTACT PH:** 0404936554		Other comment:
SAMPLER: Tristan Rodrigues / Madushani Bolonghe	**SAMPLER MOBILE:** 0417187687 / 0449091150		
COC emailed to ALS? YES	**EDD FORMAT (or default):**		
Email Reports to (will default to PM if no other addresses are listed): jessica.lawrence@erm.com, tristan.rodrigues@erm.com			
Email Invoice to (will default to PM if no other addresses are listed): jessica.lawrence@erm.com			

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Madushani Bolonghe			
DATE/TIME: 17/12/2021	DATE/TIME: 17/12/21 1850	DATE/TIME:	DATE/TIME:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE	SAMPLE DETAILS MATRIX: SOLID (S) WATER (W)			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required)								Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL CONTAINERS	PFAS (28 analytes) LOR = 5ug/kg	S16	Asbestos ID	VOC	BTEXN			Hold	Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc.
19	BUR_BH104_0.2	16/12/2021	S			x	x	x	x					
20	BUR_BH104_1.0	16/12/2021	S				x		x					
21	BUR_BH104_2.0	16/12/2021	S										x	
22	BUR_BH104_3.0	16/12/2021	S										x	
23	BUR_BH104_4.0	16/12/2021	S			x	x							
24	BUR_BH104_5.0	16/12/2021	S										x	
25	BUR_BH118_0.25	16/12/2021	S			x	x	x	x					
26	BUR_BH118_1.0	16/12/2021	S										x	

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CHAIN OF CUSTODY

ALS Laboratory: please tick →

CLIENT: ERM	TURNAROUND REQUIREMENTS : (Standard TAT may be longer for some tests e.g. Ultra Trace Organics) ☐ Standard TAT (List due date): ☐ Non Standard or urgent TAT (List due date):	FOR LABORATORY USE ONLY (Circle) Custody Seal Intact? Yes No N/A; Free ice / frozen ice bricks present upon receipt? Yes No N/A; Random Sample Temperature on Receipt: °C; Official comment: 7.6
OFFICE: Sydney		
PROJECT: 0577577 - Burwood	ALS QUOTE NO.:	COC SEQUENCE NUMBER (Circle) COC: 1 2 3 4 5 6 7 OF: 1 2 3 4 5 6 7
ORDER NUMBER:		
PROJECT MANAGER: Jessica Lawrence	CONTACT PH: 0404935554	
SAMPLER: Tristan Rodrigues / Madushani Bolonghe	SAMPLER MOBILE: 0417187687 / 0449091150	RELINQUISHED BY: Madushani Bolonghe; RECEIVED BY: [signature] AV; RELINQUISHED BY: ; RECEIVED BY:
COC emailed to ALS? YES	EDD FORMAT (or default):	DATE/TIME: 17/12/2021; DATE/TIME: 17/12/21 1850; DATE/TIME: ; DATE/TIME:
Email Reports to (will default to PM if no other addresses are listed): jessica.lawrence@erm.com, tristan.rodrigues@erm.com		
Email Invoice to (will default to PM if no other addresses are listed): jessica.lawrence@erm.com		

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE	SAMPLE DETAILS MATRIX: SOLID (S) WATER (W)			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required).								Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL CONTAINERS	PFAS (28 analytes) LOR = 5ug/kg	S16	Asbestos ID	VOC	BTEXN			Hold	Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc.
27	BUR_BH118_1.5	16/12/2021	S				x		x					
28	BUR_BH118_2.0	16/12/2021	S										x	
29	BUR_BH119_0.25	16/12/2021	S			x	x	x	x					
30	BUR_BH119_1.0	16/12/2021	S				x		x					
31	D01_20211216	16/12/2021	S			x	x		x					
32	T01_20211216	16/12/2021	S			x	x		x					Please forward to Eurofins
33	20211216_R02	16/12/2021	W			x	x		x					
34	Trip Blank NR	16/12/2021	S							x				
35	Trip Spike NR	16/12/2021	S							x				

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide/Cd Preserved; S = Sodium Hydroxide Preserved Plastic; AG = Amber Glass Unpreserved; AP = Airfreight Unpreserved Plastic; V = VOA Vial HCl Preserved; VB = VOA Vial Sodium Bisulphate Preserved; VS = VOA Vial Sulfuric Preserved; AV = Airfreight Unpreserved Vial SG = Sulfuric Preserved Amber Glass; H = HCl preserved Plastic; HS = HCl preserved Speciation bottle; SP = Sulfuric Preserved Plastic; F = Formaldehyde; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; ASS = Plastic Bag for Acid Sulphate Soils; B = Unpreserved Bag

36 TSC 15/12

37 TSC 16/12 NR

#38 PFAS Jar Extra NO ID. #39 BUR_BH118_0.1 1x9

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ALS Environmental

CERTIFICATE OF ANALYSIS

Work Order	: **ES2146625**	Page	: 1 of 50
Amendment	: **1**		
Client	: **ENVIRONMENTAL RESOURCES MANAGEMENT (ERM)**	Laboratory	: Environmental Division Sydney
Contact	: MS JESSICA LAWRENCE	Contact	: Customer Services ES
Address	: LEVEL 15 309 KENT STREET SYDNEY NSW AUSTRALIA 2000	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: +61 02 8584 8888	Telephone	: +61-2-8784 8555
Project	: 0577577-Burwood	Date Samples Received	: 20-Dec-2021 17:50
Order number	: ----	Date Analysis Commenced	: 21-Dec-2021
C-O-C number	: ----	Issue Date	: 02-Feb-2022 15:09
Sampler	: TRISTAN RODRIGUES		
Site	: ----		
Quote number	: EN/114		
No. of samples received	: 31		
No. of samples analysed	: 27		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Descriptive Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Alex Rossi	Organic Chemist	Sydney Organics, Smithfield, NSW
Brendan Schrader	Laboratory Technician	Newcastle - Asbestos, Mayfield West, NSW
Franco Lentini	LCMS Coordinator	Sydney Inorganics, Smithfield, NSW
Franco Lentini	LCMS Coordinator	Sydney Organics, Smithfield, NSW
Wisam Marassa	Inorganics Coordinator	Sydney Inorganics, Smithfield, NSW

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General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) per the NEPM (2013) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a.h)anthracene (1.0), Benzo(g.h.i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero, for 'TEQ 1/2LOR' are treated as half the reported LOR, and for 'TEQ LOR' are treated as being equal to the reported LOR. Note: TEQ 1/2LOR and TEQ LOR will calculate as 0.6mg/Kg and 1.2mg/Kg respectively for samples with non-detects for all of the eight TEQ PAHs.
- EP231X - Per- and Polyfluoroalkyl Substances (PFAS): Samples received in 20ml or 125ml bottles have been tested in accordance with the QSM5.3 compliant, NATA accredited method. 60mL or 250mL bottles have been tested to the legacy QSM 5.1 aligned, NATA accredited method.
- EP080: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EP068: Where reported, Total Chlordane (sum) is the sum of the reported concentrations of cis-Chlordane and trans-Chlordane at or above the LOR.
- EP068: Where reported, Total OCP is the sum of the reported concentrations of all Organochlorine Pesticides at or above LOR.
- EP074: Where reported, Total Trihalomethanes is the sum of the reported concentrations of all Trihalomethanes at or above the LOR.
- EP074: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EP074: Where reported, Sum of chlorinated hydrocarbons includes carbon tetrachloride, chlorobenzene, chloroform, 1,2-dichlorobenzene, 1,4-dichlorobenzene, 1,2-dichloroethane, 1,1-dichloroethene, cis-1,2-dichlorothene, trans-1,2-dichlorothene, 1,1,1,2-tetrachloroethane, 1,1,2,2-tetrachloroethane, 1,2,4-trichlorobenzene, 1,1,1-trichloroethane, 1,1,2-trichloroethane, trichloroethene, vinyl chloride, hexachlorobutadiene and methylene chloride.
- EP074: Where reported, Total Trimethylbenzenes is the sum of the reported concentrations of 1.2.3-Trimethylbenzene, 1.2.4-Trimethylbenzene and 1.3.5-Trimethylbenzene at or above the LOR.
- EP075(SIM): Where reported, Total Cresol is the sum of the reported concentrations of 2-Methylphenol and 3- & 4-Methylphenol at or above the LOR.
- EP080: Positive results for sample ES2146625-009 was confirmed by re-analysis.
- EG035: Positive Mercury result ES2146625 #5 has been confirmed by reanalysis.
- EP080: The trip spike and its control have been analysed for volatile TPH and BTEXN only. The trip spike and control were prepared in the lab using reagent grade sand spiked with petrol. The spike was dispatched from the lab and the control retained.
- Amendment (02/02/2022):This report has been amended to changed LOR for PFAS analysis to 5ug/kg.
- EA200 'Am' Amosite (brown asbestos)
- EA200 'Cr' Crocidolite (blue asbestos)
- EA200 'Trace' - Asbestos fibres ("Free Fibres") detected by trace analysis per AS4964. The result can be interpreted that the sample contains detectable 'respirable' asbestos fibres
- EA200: Asbestos Identification Samples were analysed by Polarised Light Microscopy including dispersion staining.
- EA200 Legend
- EA200 'Ch' Chrysotile (white asbestos)

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- EA200: 'UMF' Unknown Mineral Fibres. "-" indicates fibres detected may or may not be asbestos fibres. Confirmation by alternative techniques is recommended.
- EA200: For samples larger than 30g, the <2mm fraction may be sub-sampled prior to trace analysis as outlined in ISO23909:2008(E) Sect 6.3.2-2
- EA200: 'Yes' - Asbestos detected by polarised light microscopy including dispersion staining.
- EA200: 'No*' - No asbestos found, at the reporting limit of 0.1g/kg, by polarised light microscopy including dispersion staining. Asbestos material was detected and positively identified at concentrations estimated to be below 0.1g/kg.
- EA200: 'No' - No asbestos found at the reporting limit 0.1g/kg, by polarised light microscopy including dispersion staining.
- EP231: Stable isotope enriched internal standards are added to samples prior to extraction. Target compounds have a direct analogous internal standard with the exception of PFPeS, PFHpA, PFDS, PFTrDA and 10:2 FTS. These compounds use an internal standard that is chemically related and has a retention time close to that of the target compound. The DQO for internal standard response is 50-150% of that established at initial calibration. PFOS is quantified using a certified, traceable standard consisting of linear and branched PFOS isomers. These practices are in line with recommendations in the National Environmental Management Plan for PFAS (Australian HEPA) and also conform to QSM 5.3 (US DoD) requirements.

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	D03_20211217	BUR_BH120_0.2	BUR_BH120_0.5	BUR_BH108_0.2	D04_20211217
			Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146625-001	ES2146625-002	ES2146625-003	ES2146625-004	ES2146625-005
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	0.1	%	11.1	21.8	30.1	26.2	25.7
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	10	14	11	8	7
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg	10	10	24	19	18
Copper	7440-50-8	5	mg/kg	24	54	7	53	54
Lead	7439-92-1	5	mg/kg	10	87	23	267	300
Nickel	7440-02-0	2	mg/kg	3	22	2	9	9
Zinc	7440-66-6	5	mg/kg	13	80	<5	192	181
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	0.2	0.3
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Total Chlordane (sum)	----	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	D03_20211217	BUR_BH120_0.2	BUR_BH120_0.5	BUR_BH108_0.2	D04_20211217
			Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146625-001	ES2146625-002	ES2146625-003	ES2146625-004	ES2146625-005
				Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued								
4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
EP068B: Organophosphorus Pesticides (OP)								
Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
EP074A: Monocyclic Aromatic Hydrocarbons								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	----	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Styrene	100-42-5	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Isopropylbenzene	98-82-8	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
n-Propylbenzene	103-65-1	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	D03_20211217	BUR_BH120_0.2	BUR_BH120_0.5	BUR_BH108_0.2	D04_20211217
			Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146625-001	ES2146625-002	ES2146625-003	ES2146625-004	ES2146625-005
				Result	Result	Result	Result	Result
EP074A: Monocyclic Aromatic Hydrocarbons - Continued								
1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
sec-Butylbenzene	135-98-8	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
tert-Butylbenzene	98-06-6	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
p-Isopropyltoluene	99-87-6	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
n-Butylbenzene	104-51-8	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
EP074B: Oxygenated Compounds								
Vinyl Acetate	108-05-4	5	mg/kg	<5	<5	----	<5	<5
2-Butanone (MEK)	78-93-3	5	mg/kg	<5	<5	----	<5	<5
4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	<5	<5	----	<5	<5
2-Hexanone (MBK)	591-78-6	5	mg/kg	<5	<5	----	<5	<5
EP074C: Sulfonated Compounds								
Carbon disulfide	75-15-0	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
EP074D: Fumigants								
2.2-Dichloropropane	594-20-7	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.2-Dichloropropane	78-87-5	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
EP074E: Halogenated Aliphatic Compounds								
Dichlorodifluoromethane	75-71-8	5	mg/kg	<5	<5	----	<5	<5
Chloromethane	74-87-3	5	mg/kg	<5	<5	----	<5	<5
Vinyl chloride	75-01-4	5	mg/kg	<5	<5	----	<5	<5
Bromomethane	74-83-9	5	mg/kg	<5	<5	----	<5	<5
Chloroethane	75-00-3	5	mg/kg	<5	<5	----	<5	<5
Trichlorofluoromethane	75-69-4	5	mg/kg	<5	<5	----	<5	<5
1.1-Dichloroethene	75-35-4	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Iodomethane	74-88-4	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.1-Dichloroethane	75-34-3	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.1-Dichloropropylene	563-58-6	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Carbon Tetrachloride	56-23-5	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	D03_20211217	BUR_BH120_0.2	BUR_BH120_0.5	BUR_BH108_0.2	D04_20211217
			Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146625-001	ES2146625-002	ES2146625-003	ES2146625-004	ES2146625-005
				Result	Result	Result	Result	Result
EP074E: Halogenated Aliphatic Compounds - Continued								
1.2-Dichloroethane	107-06-2	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Trichloroethene	79-01-6	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Dibromomethane	74-95-3	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.3-Dichloropropane	142-28-9	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Tetrachloroethene	127-18-4	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Pentachloroethane	76-01-7	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
EP074F: Halogenated Aromatic Compounds								
Chlorobenzene	108-90-7	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Bromobenzene	108-86-1	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
2-Chlorotoluene	95-49-8	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
4-Chlorotoluene	106-43-4	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
EP074G: Trihalomethanes								
Chloroform	67-66-3	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Bromodichloromethane	75-27-4	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Dibromochloromethane	124-48-1	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Bromoform	75-25-2	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
EP074H: Naphthalene								
Naphthalene	91-20-3	1	mg/kg	<1	<1	----	<1	<1
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	<0.5	**0.7**	**0.7**

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	D03_20211217	BUR_BH120_0.2	BUR_BH120_0.5	BUR_BH108_0.2	D04_20211217
			Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146625-001	ES2146625-002	ES2146625-003	ES2146625-004	ES2146625-005
				Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued								
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	0.8	<0.5	5.8	4.9
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	<0.5	1.3	1.2
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	0.5	<0.5	9.4	7.9
Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	<0.5	8.8	7.5
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	<0.5	4.4	3.8
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	<0.5	3.9	3.4
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	<0.5	4.7	4.2
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	<0.5	1.9	1.7
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	<0.5	4.2	3.8
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	<0.5	2.2	2.0
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	<0.5	0.6	0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	<0.5	2.4	2.3
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	1.3	<0.5	50.3	43.9
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	<0.5	6.2	5.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	0.6	0.6	0.6	6.2	5.5
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	1.2	1.2	1.2	6.2	5.5
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	10	mg/kg	<10	<10	<10	<10	<10
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
C15 - C28 Fraction	----	100	mg/kg	<100	130	<100	130	<100
C29 - C36 Fraction	----	100	mg/kg	<100	140	<100	140	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	270	<50	270	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	<10	<10	<10
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	<10	<10	<10	<10
>C10 - C16 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
>C16 - C34 Fraction	----	100	mg/kg	<100	220	<100	220	150
>C34 - C40 Fraction	----	100	mg/kg	<100	120	<100	140	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	340	<50	360	150
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	<50	<50	<50	<50
EP080: BTEXN								

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	D03_20211217	BUR_BH120_0.2	BUR_BH120_0.5	BUR_BH108_0.2	D04_20211217
			Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146625-001	ES2146625-002	ES2146625-003	ES2146625-004	ES2146625-005
				Result	Result	Result	Result	Result
EP080: BTEXN - Continued								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of BTEX	----	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
^ Total Xylenes	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	91-20-3	1	mg/kg	<1	<1	<1	<1	<1
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
Perfluorodecane sulfonic acid (PFDS)	335-77-3	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	5	µg/kg	<5	----	<5	<5	<5
Perfluoropentanoic acid (PFPeA)	2706-90-3	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
Perfluorohexanoic acid (PFHxA)	307-24-4	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
Perfluoroheptanoic acid (PFHpA)	375-85-9	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
Perfluorooctanoic acid (PFOA)	335-67-1	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
Perfluorononanoic acid (PFNA)	375-95-1	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
Perfluorodecanoic acid (PFDA)	335-76-2	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
Perfluorododecanoic acid (PFDoDA)	307-55-1	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	D03_20211217	BUR_BH120_0.2	BUR_BH120_0.5	BUR_BH108_0.2	D04_20211217
			Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146625-001	ES2146625-002	ES2146625-003	ES2146625-004	ES2146625-005
				Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
EP231P: PFAS Sums								
Sum of PFAS	----	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
Sum of PFHxS and PFOS	355-46-4/1763-23-1	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
Sum of PFAS (WA DER List)	----	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
EP066S: PCB Surrogate								
Decachlorobiphenyl	2051-24-3	0.1	%	71.8	70.6	93.6	76.3	76.8

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	D03_20211217	BUR_BH120_0.2	BUR_BH120_0.5	BUR_BH108_0.2	D04_20211217
			Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146625-001	ES2146625-002	ES2146625-003	ES2146625-004	ES2146625-005
				Result	Result	Result	Result	Result
EP068S: Organochlorine Pesticide Surrogate								
Dibromo-DDE	21655-73-2	0.05	%	90.7	77.0	118	78.6	78.4
EP068T: Organophosphorus Pesticide Surrogate								
DEF	78-48-8	0.05	%	75.8	72.5	114	78.8	71.0
EP074S: VOC Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.5	%	78.0	125	----	75.2	82.8
Toluene-D8	2037-26-5	0.5	%	120	134	----	113	92.4
4-Bromofluorobenzene	460-00-4	0.5	%	111	121	----	106	97.7
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.5	%	92.8	85.8	93.9	90.6	90.0
2-Chlorophenol-D4	93951-73-6	0.5	%	92.2	83.4	93.4	88.9	88.5
2.4.6-Tribromophenol	118-79-6	0.5	%	83.8	72.7	85.2	86.2	86.3
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.5	%	96.9	96.5	98.1	93.7	92.8
Anthracene-d10	1719-06-8	0.5	%	97.3	96.0	102	96.2	95.8
4-Terphenyl-d14	1718-51-0	0.5	%	90.6	89.3	91.4	89.4	88.8
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	101	122	78.2	97.4	80.5
Toluene-D8	2037-26-5	0.2	%	106	126	90.4	100	83.9
4-Bromofluorobenzene	460-00-4	0.2	%	110	118	84.4	104	89.4
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	95.0	----	95.0	92.5	92.0
13C8-PFOA	----	0.0002	%	118	----	115	114	118

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH108_0.5	BUR_BH108_2.0	BUR_BH108_5.8	BUR_BH108_11.0	BUR_BH108_20.0
			Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146625-006	ES2146625-007	ES2146625-008	ES2146625-009	ES2146625-010
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	0.1	%	27.6	15.7	8.1	4.3	4.7
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	7	<5	7	<5	8
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg	19	4	14	5	8
Copper	7440-50-8	5	mg/kg	8	7	46	22	25
Lead	7439-92-1	5	mg/kg	23	14	16	12	18
Nickel	7440-02-0	2	mg/kg	<2	<2	37	14	18
Zinc	7440-66-6	5	mg/kg	<5	<5	195	50	79
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Total Chlordane (sum)	----	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH108_0.5	BUR_BH108_2.0	BUR_BH108_5.8	BUR_BH108_11.0	BUR_BH108_20.0
			Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146625-006	ES2146625-007	ES2146625-008	ES2146625-009	ES2146625-010
				Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued								
4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
EP068B: Organophosphorus Pesticides (OP)								
Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
EP074A: Monocyclic Aromatic Hydrocarbons								
Benzene	71-43-2	0.2	mg/kg	<0.2	----	<0.2	----	<0.2
Toluene	108-88-3	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	----	<0.5	----	0.5
Styrene	100-42-5	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Isopropylbenzene	98-82-8	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
n-Propylbenzene	103-65-1	0.5	mg/kg	<0.5	----	<0.5	----	<0.5

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH108_0.5	BUR_BH108_2.0	BUR_BH108_5.8	BUR_BH108_11.0	BUR_BH108_20.0
			Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146625-006	ES2146625-007	ES2146625-008	ES2146625-009	ES2146625-010
				Result	Result	Result	Result	Result
EP074A: Monocyclic Aromatic Hydrocarbons - Continued								
1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
sec-Butylbenzene	135-98-8	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
tert-Butylbenzene	98-06-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
p-Isopropyltoluene	99-87-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
n-Butylbenzene	104-51-8	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
EP074B: Oxygenated Compounds								
Vinyl Acetate	108-05-4	5	mg/kg	<5	----	<5	----	<5
2-Butanone (MEK)	78-93-3	5	mg/kg	<5	----	<5	----	<5
4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	<5	----	<5	----	<5
2-Hexanone (MBK)	591-78-6	5	mg/kg	<5	----	<5	----	<5
EP074C: Sulfonated Compounds								
Carbon disulfide	75-15-0	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
EP074D: Fumigants								
2.2-Dichloropropane	594-20-7	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.2-Dichloropropane	78-87-5	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
EP074E: Halogenated Aliphatic Compounds								
Dichlorodifluoromethane	75-71-8	5	mg/kg	<5	----	<5	----	<5
Chloromethane	74-87-3	5	mg/kg	<5	----	<5	----	<5
Vinyl chloride	75-01-4	5	mg/kg	<5	----	<5	----	<5
Bromomethane	74-83-9	5	mg/kg	<5	----	<5	----	<5
Chloroethane	75-00-3	5	mg/kg	<5	----	<5	----	<5
Trichlorofluoromethane	75-69-4	5	mg/kg	<5	----	<5	----	<5
1.1-Dichloroethene	75-35-4	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Iodomethane	74-88-4	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.1-Dichloroethane	75-34-3	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.1-Dichloropropylene	563-58-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Carbon Tetrachloride	56-23-5	0.5	mg/kg	<0.5	----	<0.5	----	<0.5

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH108_0.5	BUR_BH108_2.0	BUR_BH108_5.8	BUR_BH108_11.0	BUR_BH108_20.0
			Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146625-006	ES2146625-007	ES2146625-008	ES2146625-009	ES2146625-010
				Result	Result	Result	Result	Result
EP074E: Halogenated Aliphatic Compounds - Continued								
1.2-Dichloroethane	107-06-2	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Trichloroethene	79-01-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Dibromomethane	74-95-3	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.3-Dichloropropane	142-28-9	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Tetrachloroethene	127-18-4	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Pentachloroethane	76-01-7	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
EP074F: Halogenated Aromatic Compounds								
Chlorobenzene	108-90-7	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Bromobenzene	108-86-1	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
2-Chlorotoluene	95-49-8	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
4-Chlorotoluene	106-43-4	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
EP074G: Trihalomethanes								
Chloroform	67-66-3	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Bromodichloromethane	75-27-4	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Dibromochloromethane	124-48-1	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Bromoform	75-25-2	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
EP074H: Naphthalene								
Naphthalene	91-20-3	1	mg/kg	<1	----	<1	----	<1
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH108_0.5	BUR_BH108_2.0	BUR_BH108_5.8	BUR_BH108_11.0	BUR_BH108_20.0
			Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146625-006	ES2146625-007	ES2146625-008	ES2146625-009	ES2146625-010
				Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued								
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	<0.5	**0.8**	<0.5
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	<0.5	**0.8**	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	**1.2**	**1.2**	**1.2**	**1.2**	**1.2**
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	10	mg/kg	<10	<10	<10	**30**	**11**
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	**160**	<50
C15 - C28 Fraction	----	100	mg/kg	<100	<100	<100	**440**	<100
C29 - C36 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	<50	**600**	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	<10	**50**	**13**
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	<10	<10	**50**	**13**
>C10 - C16 Fraction	----	50	mg/kg	<50	<50	<50	**230**	<50
>C16 - C34 Fraction	----	100	mg/kg	<100	<100	<100	**420**	<100
>C34 - C40 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	<50	**650**	<50
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	<50	<50	**230**	<50
EP080: BTEXN								

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH108_0.5	BUR_BH108_2.0	BUR_BH108_5.8	BUR_BH108_11.0	BUR_BH108_20.0
			Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146625-006	ES2146625-007	ES2146625-008	ES2146625-009	ES2146625-010
				Result	Result	Result	Result	Result
EP080: BTEXN - Continued								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of BTEX	----	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
^ Total Xylenes	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	91-20-3	1	mg/kg	<1	<1	<1	<1	<1
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	5.0	µg/kg	<5.0	----	----	----	<5.0
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	5.0	µg/kg	<5.0	----	----	----	<5.0
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	5.0	µg/kg	<5.0	----	----	----	<5.0
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	5.0	µg/kg	<5.0	----	----	----	<5.0
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	5.0	µg/kg	<5.0	----	----	----	<5.0
Perfluorodecane sulfonic acid (PFDS)	335-77-3	5.0	µg/kg	<5.0	----	----	----	<5.0
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	5	µg/kg	<5	----	----	----	<5
Perfluoropentanoic acid (PFPeA)	2706-90-3	5.0	µg/kg	<5.0	----	----	----	<5.0
Perfluorohexanoic acid (PFHxA)	307-24-4	5.0	µg/kg	<5.0	----	----	----	<5.0
Perfluoroheptanoic acid (PFHpA)	375-85-9	5.0	µg/kg	<5.0	----	----	----	<5.0
Perfluorooctanoic acid (PFOA)	335-67-1	5.0	µg/kg	<5.0	----	----	----	<5.0
Perfluorononanoic acid (PFNA)	375-95-1	5.0	µg/kg	<5.0	----	----	----	<5.0
Perfluorodecanoic acid (PFDA)	335-76-2	5.0	µg/kg	<5.0	----	----	----	<5.0
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	5.0	µg/kg	<5.0	----	----	----	<5.0
Perfluorododecanoic acid (PFDoDA)	307-55-1	5.0	µg/kg	<5.0	----	----	----	<5.0
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	5.0	µg/kg	<5.0	----	----	----	<5.0

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH108_0.5	BUR_BH108_2.0	BUR_BH108_5.8	BUR_BH108_11.0	BUR_BH108_20.0
			Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146625-006	ES2146625-007	ES2146625-008	ES2146625-009	ES2146625-010
				Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	5.0	µg/kg	<5.0	----	----	----	<5.0
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	5.0	µg/kg	<5.0	----	----	----	<5.0
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	5.0	µg/kg	<5.0	----	----	----	<5.0
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	5.0	µg/kg	<5.0	----	----	----	<5.0
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	5.0	µg/kg	<5.0	----	----	----	<5.0
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	5.0	µg/kg	<5.0	----	----	----	<5.0
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	5.0	µg/kg	<5.0	----	----	----	<5.0
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	5.0	µg/kg	<5.0	----	----	----	<5.0
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	5.0	µg/kg	<5.0	----	----	----	<5.0
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	5.0	µg/kg	<5.0	----	----	----	<5.0
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	5.0	µg/kg	<5.0	----	----	----	<5.0
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	5.0	µg/kg	<5.0	----	----	----	<5.0
EP231P: PFAS Sums								
Sum of PFAS	----	5.0	µg/kg	<5.0	----	----	----	<5.0
Sum of PFHxS and PFOS	355-46-4/1763-23-1	5.0	µg/kg	<5.0	----	----	----	<5.0
Sum of PFAS (WA DER List)	----	5.0	µg/kg	<5.0	----	----	----	<5.0
EP066S: PCB Surrogate								
Decachlorobiphenyl	2051-24-3	0.1	%	**91.4**	**76.6**	**82.7**	**76.0**	**73.2**

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Analytical Results

Sub-Matrix: **SOIL**
(Matrix: **SOIL**)

Compound	CAS Number	LOR	Unit	Sample ID	BUR_BH108_0.5	BUR_BH108_2.0	BUR_BH108_5.8	BUR_BH108_11.0	BUR_BH108_20.0
				Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
					ES2146625-006	ES2146625-007	ES2146625-008	ES2146625-009	ES2146625-010
					Result	Result	Result	Result	Result
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%		78.3	84.4	86.3	77.5	91.9
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%		77.4	72.4	72.6	77.3	81.5
EP074S: VOC Surrogates									
1.2-Dichloroethane-D4	17060-07-0	0.5	%		75.5	----	88.2	----	86.9
Toluene-D8	2037-26-5	0.5	%		116	----	125	----	132
4-Bromofluorobenzene	460-00-4	0.5	%		104	----	120	----	122
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%		92.6	93.1	93.4	95.4	92.7
2-Chlorophenol-D4	93951-73-6	0.5	%		90.8	91.1	92.7	94.6	91.8
2.4.6-Tribromophenol	118-79-6	0.5	%		86.2	86.9	86.9	79.8	77.4
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%		95.5	97.4	97.4	99.1	95.4
Anthracene-d10	1719-06-8	0.5	%		98.3	100	100	101	99.6
4-Terphenyl-d14	1718-51-0	0.5	%		89.5	90.5	91.8	93.3	89.6
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	0.2	%		97.9	86.0	114	96.1	112
Toluene-D8	2037-26-5	0.2	%		102	95.0	110	106	117
4-Bromofluorobenzene	460-00-4	0.2	%		104	89.4	119	101	120
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.0002	%		92.5	----	----	----	94.5
13C8-PFOA	----	0.0002	%		116	----	----	----	114

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH108_17.0	BUR_BH106_0.2	BUR_BH106_1.0	BUR_BH106_2.0	BUR_BH106_3.0
			Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146625-011	ES2146625-012	ES2146625-013	ES2146625-014	ES2146625-015
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	0.1	%	4.6	13.9	26.8	12.4	8.9
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Asbestos Detected	1332-21-4	0.1	g/kg	----	No	----	----	----
Asbestos (Trace)	1332-21-4	5	Fibres	----	No	----	----	----
Asbestos Type	1332-21-4	-	--	----	-	----	----	----
Synthetic Mineral Fibre	----	0.1	g/kg	----	No	----	----	----
Organic Fibre	----	0.1	g/kg	----	No	----	----	----
Sample weight (dry)	----	0.01	g	----	229	----	----	----
APPROVED IDENTIFIER:	----	-	--	----	B.SCHRADER	----	----	----
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	9	5	6	8	8
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg	11	7	11	6	7
Copper	7440-50-8	5	mg/kg	15	48	6	16	30
Lead	7439-92-1	5	mg/kg	16	223	35	22	14
Nickel	7440-02-0	2	mg/kg	15	13	<2	<2	2
Zinc	7440-66-6	5	mg/kg	61	146	<5	<5	15
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Total Chlordane (sum)	----	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH108_17.0	BUR_BH106_0.2	BUR_BH106_1.0	BUR_BH106_2.0	BUR_BH106_3.0
			Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146625-011	ES2146625-012	ES2146625-013	ES2146625-014	ES2146625-015
				Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued								
Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
EP068B: Organophosphorus Pesticides (OP)								
Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
EP074A: Monocyclic Aromatic Hydrocarbons								

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH108_17.0	BUR_BH106_0.2	BUR_BH106_1.0	BUR_BH106_2.0	BUR_BH106_3.0
			Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146625-011	ES2146625-012	ES2146625-013	ES2146625-014	ES2146625-015
				Result	Result	Result	Result	Result
EP074A: Monocyclic Aromatic Hydrocarbons - Continued								
Benzene	71-43-2	0.2	mg/kg	----	<0.2	----	<0.2	----
Toluene	108-88-3	0.5	mg/kg	----	<0.5	----	<0.5	----
Ethylbenzene	100-41-4	0.5	mg/kg	----	<0.5	----	<0.5	----
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	----	<0.5	----	<0.5	----
Styrene	100-42-5	0.5	mg/kg	----	<0.5	----	<0.5	----
ortho-Xylene	95-47-6	0.5	mg/kg	----	<0.5	----	<0.5	----
Isopropylbenzene	98-82-8	0.5	mg/kg	----	<0.5	----	<0.5	----
n-Propylbenzene	103-65-1	0.5	mg/kg	----	<0.5	----	<0.5	----
1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	----	<0.5	----	<0.5	----
sec-Butylbenzene	135-98-8	0.5	mg/kg	----	<0.5	----	<0.5	----
1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	----	<0.5	----	<0.5	----
tert-Butylbenzene	98-06-6	0.5	mg/kg	----	<0.5	----	<0.5	----
p-Isopropyltoluene	99-87-6	0.5	mg/kg	----	<0.5	----	<0.5	----
n-Butylbenzene	104-51-8	0.5	mg/kg	----	<0.5	----	<0.5	----
EP074B: Oxygenated Compounds								
Vinyl Acetate	108-05-4	5	mg/kg	----	<5	----	<5	----
2-Butanone (MEK)	78-93-3	5	mg/kg	----	<5	----	<5	----
4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	----	<5	----	<5	----
2-Hexanone (MBK)	591-78-6	5	mg/kg	----	<5	----	<5	----
EP074C: Sulfonated Compounds								
Carbon disulfide	75-15-0	0.5	mg/kg	----	<0.5	----	<0.5	----
EP074D: Fumigants								
2.2-Dichloropropane	594-20-7	0.5	mg/kg	----	<0.5	----	<0.5	----
1.2-Dichloropropane	78-87-5	0.5	mg/kg	----	<0.5	----	<0.5	----
cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	----	<0.5	----	<0.5	----
trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	----	<0.5	----	<0.5	----
1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	----	<0.5	----	<0.5	----
EP074E: Halogenated Aliphatic Compounds								
Dichlorodifluoromethane	75-71-8	5	mg/kg	----	<5	----	<5	----
Chloromethane	74-87-3	5	mg/kg	----	<5	----	<5	----
Vinyl chloride	75-01-4	5	mg/kg	----	<5	----	<5	----
Bromomethane	74-83-9	5	mg/kg	----	<5	----	<5	----
Chloroethane	75-00-3	5	mg/kg	----	<5	----	<5	----
Trichlorofluoromethane	75-69-4	5	mg/kg	----	<5	----	<5	----

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH108_17.0	BUR_BH106_0.2	BUR_BH106_1.0	BUR_BH106_2.0	BUR_BH106_3.0
			Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146625-011	ES2146625-012	ES2146625-013	ES2146625-014	ES2146625-015
				Result	Result	Result	Result	Result
EP074E: Halogenated Aliphatic Compounds - Continued								
1.1-Dichloroethene	75-35-4	0.5	mg/kg	----	<0.5	----	<0.5	----
Iodomethane	74-88-4	0.5	mg/kg	----	<0.5	----	<0.5	----
trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	----	<0.5	----	<0.5	----
1.1-Dichloroethane	75-34-3	0.5	mg/kg	----	<0.5	----	<0.5	----
cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	----	<0.5	----	<0.5	----
1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	----	<0.5	----	<0.5	----
1.1-Dichloropropylene	563-58-6	0.5	mg/kg	----	<0.5	----	<0.5	----
Carbon Tetrachloride	56-23-5	0.5	mg/kg	----	<0.5	----	<0.5	----
1.2-Dichloroethane	107-06-2	0.5	mg/kg	----	<0.5	----	<0.5	----
Trichloroethene	79-01-6	0.5	mg/kg	----	<0.5	----	<0.5	----
Dibromomethane	74-95-3	0.5	mg/kg	----	<0.5	----	<0.5	----
1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	----	<0.5	----	<0.5	----
1.3-Dichloropropane	142-28-9	0.5	mg/kg	----	<0.5	----	<0.5	----
Tetrachloroethene	127-18-4	0.5	mg/kg	----	<0.5	----	<0.5	----
1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	----	<0.5	----	<0.5	----
trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	----	<0.5	----	<0.5	----
cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	----	<0.5	----	<0.5	----
1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	----	<0.5	----	<0.5	----
1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	----	<0.5	----	<0.5	----
Pentachloroethane	76-01-7	0.5	mg/kg	----	<0.5	----	<0.5	----
1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	----	<0.5	----	<0.5	----
Hexachlorobutadiene	87-68-3	0.5	mg/kg	----	<0.5	----	<0.5	----
EP074F: Halogenated Aromatic Compounds								
Chlorobenzene	108-90-7	0.5	mg/kg	----	<0.5	----	<0.5	----
Bromobenzene	108-86-1	0.5	mg/kg	----	<0.5	----	<0.5	----
2-Chlorotoluene	95-49-8	0.5	mg/kg	----	<0.5	----	<0.5	----
4-Chlorotoluene	106-43-4	0.5	mg/kg	----	<0.5	----	<0.5	----
1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	----	<0.5	----	<0.5	----
1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	----	<0.5	----	<0.5	----
1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	----	<0.5	----	<0.5	----
1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	----	<0.5	----	<0.5	----
1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	----	<0.5	----	<0.5	----
EP074G: Trihalomethanes								
Chloroform	67-66-3	0.5	mg/kg	----	<0.5	----	<0.5	----

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH108_17.0	BUR_BH106_0.2	BUR_BH106_1.0	BUR_BH106_2.0	BUR_BH106_3.0
			Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146625-011	ES2146625-012	ES2146625-013	ES2146625-014	ES2146625-015
				Result	Result	Result	Result	Result
EP074G: Trihalomethanes - Continued								
Bromodichloromethane	75-27-4	0.5	mg/kg	----	<0.5	----	<0.5	----
Dibromochloromethane	124-48-1	0.5	mg/kg	----	<0.5	----	<0.5	----
Bromoform	75-25-2	0.5	mg/kg	----	<0.5	----	<0.5	----
EP074H: Naphthalene								
Naphthalene	91-20-3	1	mg/kg	----	<1	----	<1	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	0.6	<0.5	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	3.7	<0.5	<0.5	<0.5
Anthracene	120-12-7	0.5	mg/kg	<0.5	0.9	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	5.8	<0.5	<0.5	<0.5
Pyrene	129-00-0	0.5	mg/kg	<0.5	5.7	<0.5	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	2.6	<0.5	<0.5	<0.5
Chrysene	218-01-9	0.5	mg/kg	<0.5	2.5	<0.5	<0.5	<0.5
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	2.9	<0.5	<0.5	<0.5
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	1.1	<0.5	<0.5	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	2.4	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	1.2	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	1.4	<0.5	<0.5	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	30.8	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	3.2	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	0.6	3.5	0.6	0.6	0.6
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	1.2	3.7	1.2	1.2	1.2
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	10	mg/kg	<10	<10	<10	<10	<10
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
C15 - C28 Fraction	----	100	mg/kg	<100	120	<100	<100	<100
C29 - C36 Fraction	----	100	mg/kg	<100	130	<100	<100	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	250	<50	<50	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	<10	<10	<10

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH108_17.0	BUR_BH106_0.2	BUR_BH106_1.0	BUR_BH106_2.0	BUR_BH106_3.0
			Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146625-011	ES2146625-012	ES2146625-013	ES2146625-014	ES2146625-015
				Result	Result	Result	Result	Result
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued								
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	<10	<10	<10	<10
>C10 - C16 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
>C16 - C34 Fraction	----	100	mg/kg	<100	200	<100	<100	<100
>C34 - C40 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	200	<50	<50	<50
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	<50	<50	<50	<50
EP080: BTEXN								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of BTEX	----	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
^ Total Xylenes	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	91-20-3	1	mg/kg	<1	<1	<1	<1	<1
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	5.0	µg/kg	----	<5.0	----	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	5.0	µg/kg	----	<5.0	----	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	5.0	µg/kg	----	<5.0	----	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	5.0	µg/kg	----	<5.0	----	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	5.0	µg/kg	----	<5.0	----	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	5.0	µg/kg	----	<5.0	----	----	----
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	5	µg/kg	----	<5	----	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	5.0	µg/kg	----	<5.0	----	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	5.0	µg/kg	----	<5.0	----	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	5.0	µg/kg	----	<5.0	----	----	----

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH108_17.0	BUR_BH106_0.2	BUR_BH106_1.0	BUR_BH106_2.0	BUR_BH106_3.0
			Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146625-011	ES2146625-012	ES2146625-013	ES2146625-014	ES2146625-015
				Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorooctanoic acid (PFOA)	335-67-1	5.0	µg/kg	----	<5.0	----	----	----
Perfluorononanoic acid (PFNA)	375-95-1	5.0	µg/kg	----	<5.0	----	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	5.0	µg/kg	----	<5.0	----	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	5.0	µg/kg	----	<5.0	----	----	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	5.0	µg/kg	----	<5.0	----	----	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	5.0	µg/kg	----	<5.0	----	----	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	5.0	µg/kg	----	<5.0	----	----	----
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	5.0	µg/kg	----	<5.0	----	----	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	5.0	µg/kg	----	<5.0	----	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	5.0	µg/kg	----	<5.0	----	----	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	5.0	µg/kg	----	<5.0	----	----	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	5.0	µg/kg	----	<5.0	----	----	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	5.0	µg/kg	----	<5.0	----	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	5.0	µg/kg	----	<5.0	----	----	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	5.0	µg/kg	----	<5.0	----	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	5.0	µg/kg	----	<5.0	----	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	5.0	µg/kg	----	<5.0	----	----	----

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH108_17.0	BUR_BH106_0.2	BUR_BH106_1.0	BUR_BH106_2.0	BUR_BH106_3.0
			Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146625-011	ES2146625-012	ES2146625-013	ES2146625-014	ES2146625-015
				Result	Result	Result	Result	Result
EP231D: (n:2) Fluorotelomer Sulfonic Acids - Continued								
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	5.0	µg/kg	----	<5.0	----	----	----
EP231P: PFAS Sums								
Sum of PFAS	----	5.0	µg/kg	----	<5.0	----	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	5.0	µg/kg	----	<5.0	----	----	----
Sum of PFAS (WA DER List)	----	5.0	µg/kg	----	<5.0	----	----	----
EP066S: PCB Surrogate								
Decachlorobiphenyl	2051-24-3	0.1	%	72.6	77.5	79.1	89.1	88.7
EP068S: Organochlorine Pesticide Surrogate								
Dibromo-DDE	21655-73-2	0.05	%	89.4	79.6	74.4	88.2	83.4
EP068T: Organophosphorus Pesticide Surrogate								
DEF	78-48-8	0.05	%	76.6	73.1	78.0	74.1	73.9
EP074S: VOC Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.5	%	----	77.8	----	84.2	----
Toluene-D8	2037-26-5	0.5	%	----	118	----	124	----
4-Bromofluorobenzene	460-00-4	0.5	%	----	106	----	118	----
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.5	%	100	85.2	94.8	95.8	91.6
2-Chlorophenol-D4	93951-73-6	0.5	%	97.9	80.0	92.9	93.8	90.1
2.4.6-Tribromophenol	118-79-6	0.5	%	82.9	66.5	84.3	83.7	79.5
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.5	%	103	94.5	97.4	98.0	94.5
Anthracene-d10	1719-06-8	0.5	%	107	95.1	102	100	94.8
4-Terphenyl-d14	1718-51-0	0.5	%	95.9	89.4	90.7	91.3	87.6
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	92.2	100	84.3	109	87.3
Toluene-D8	2037-26-5	0.2	%	105	105	91.6	110	92.8
4-Bromofluorobenzene	460-00-4	0.2	%	98.6	106	90.1	120	87.8
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	----	90.0	----	----	----
13C8-PFOA	----	0.0002	%	----	114	----	----	----

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH106_4.0	BUR_BH106_5.0	D02_20211217	BUR_BH107_0.2	BUR_BH107_1.0
			Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146625-016	ES2146625-017	ES2146625-018	ES2146625-019	ES2146625-020
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	0.1	%	8.6	8.5	8.0	16.5	26.6
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Asbestos Detected	1332-21-4	0.1	g/kg	----	----	----	No	----
Asbestos (Trace)	1332-21-4	5	Fibres	----	----	----	No	----
Asbestos Type	1332-21-4	-	--	----	----	----	-	----
Synthetic Mineral Fibre	----	0.1	g/kg	----	----	----	No	----
Organic Fibre	----	0.1	g/kg	----	----	----	No	----
Sample weight (dry)	----	0.01	g	----	----	----	287	----
APPROVED IDENTIFIER:	----	-	--	----	----	----	B.SCHRADER	----
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	10	12	8	5	8
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg	14	12	11	6	19
Copper	7440-50-8	5	mg/kg	52	61	45	62	5
Lead	7439-92-1	5	mg/kg	21	20	15	60	18
Nickel	7440-02-0	2	mg/kg	9	27	7	16	<2
Zinc	7440-66-6	5	mg/kg	46	144	34	82	8
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Total Chlordane (sum)	----	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH106_4.0	BUR_BH106_5.0	D02_20211217	BUR_BH107_0.2	BUR_BH107_1.0
			Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146625-016	ES2146625-017	ES2146625-018	ES2146625-019	ES2146625-020
				Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued								
Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-29-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
EP068B: Organophosphorus Pesticides (OP)								
Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
EP074A: Monocyclic Aromatic Hydrocarbons								

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH106_4.0	BUR_BH106_5.0	D02_20211217	BUR_BH107_0.2	BUR_BH107_1.0
			Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146625-016	ES2146625-017	ES2146625-018	ES2146625-019	ES2146625-020
				Result	Result	Result	Result	Result
EP074A: Monocyclic Aromatic Hydrocarbons - Continued								
Benzene	71-43-2	0.2	mg/kg	<0.2	----	<0.2	----	<0.2
Toluene	108-88-3	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Styrene	100-42-5	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Isopropylbenzene	98-82-8	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
n-Propylbenzene	103-65-1	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
sec-Butylbenzene	135-98-8	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
tert-Butylbenzene	98-06-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
p-Isopropyltoluene	99-87-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
n-Butylbenzene	104-51-8	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
EP074B: Oxygenated Compounds								
Vinyl Acetate	108-05-4	5	mg/kg	<5	----	<5	----	<5
2-Butanone (MEK)	78-93-3	5	mg/kg	<5	----	<5	----	<5
4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	<5	----	<5	----	<5
2-Hexanone (MBK)	591-78-6	5	mg/kg	<5	----	<5	----	<5
EP074C: Sulfonated Compounds								
Carbon disulfide	75-15-0	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
EP074D: Fumigants								
2.2-Dichloropropane	594-20-7	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.2-Dichloropropane	78-87-5	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
EP074E: Halogenated Aliphatic Compounds								
Dichlorodifluoromethane	75-71-8	5	mg/kg	<5	----	<5	----	<5
Chloromethane	74-87-3	5	mg/kg	<5	----	<5	----	<5
Vinyl chloride	75-01-4	5	mg/kg	<5	----	<5	----	<5
Bromomethane	74-83-9	5	mg/kg	<5	----	<5	----	<5
Chloroethane	75-00-3	5	mg/kg	<5	----	<5	----	<5
Trichlorofluoromethane	75-69-4	5	mg/kg	<5	----	<5	----	<5

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH106_4.0	BUR_BH106_5.0	D02_20211217	BUR_BH107_0.2	BUR_BH107_1.0
			Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146625-016	ES2146625-017	ES2146625-018	ES2146625-019	ES2146625-020
				Result	Result	Result	Result	Result
EP074E: Halogenated Aliphatic Compounds - Continued								
1.1-Dichloroethene	75-35-4	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Iodomethane	74-88-4	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.1-Dichloroethane	75-34-3	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.1-Dichloropropylene	563-58-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Carbon Tetrachloride	56-23-5	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.2-Dichloroethane	107-06-2	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Trichloroethene	79-01-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Dibromomethane	74-95-3	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.3-Dichloropropane	142-28-9	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Tetrachloroethene	127-18-4	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Pentachloroethane	76-01-7	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
EP074F: Halogenated Aromatic Compounds								
Chlorobenzene	108-90-7	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Bromobenzene	108-86-1	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
2-Chlorotoluene	95-49-8	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
4-Chlorotoluene	106-43-4	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
EP074G: Trihalomethanes								
Chloroform	67-66-3	0.5	mg/kg	<0.5	----	<0.5	----	<0.5

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH106_4.0	BUR_BH106_5.0	D02_20211217	BUR_BH107_0.2	BUR_BH107_1.0
			Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146625-016	ES2146625-017	ES2146625-018	ES2146625-019	ES2146625-020
				Result	Result	Result	Result	Result
EP074G: Trihalomethanes - Continued								
Bromodichloromethane	75-27-4	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Dibromochloromethane	124-48-1	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Bromoform	75-25-2	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
EP074H: Naphthalene								
Naphthalene	91-20-3	1	mg/kg	<1	----	<1	----	<1
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	<0.5	**0.5**	<0.5
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	<0.5	**0.5**	<0.5
Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	<0.5	**1.0**	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	**1.2**	**1.2**	**1.2**	**1.2**	**1.2**
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	10	mg/kg	<10	<10	<10	<10	<10
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
C15 - C28 Fraction	----	100	mg/kg	<100	<100	<100	**170**	<100
C29 - C36 Fraction	----	100	mg/kg	<100	<100	<100	**370**	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	<50	**540**	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	<10	<10	<10

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH106_4.0	BUR_BH106_5.0	D02_20211217	BUR_BH107_0.2	BUR_BH107_1.0
			Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146625-016	ES2146625-017	ES2146625-018	ES2146625-019	ES2146625-020
				Result	Result	Result	Result	Result
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued								
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	<10	<10	<10	<10
>C10 - C16 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
>C16 - C34 Fraction	----	100	mg/kg	<100	<100	<100	**410**	<100
>C34 - C40 Fraction	----	100	mg/kg	<100	<100	<100	**400**	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	<50	**810**	<50
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	<50	<50	<50	<50
EP080: BTEXN								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of BTEX	----	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
^ Total Xylenes	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	91-20-3	1	mg/kg	<1	<1	<1	<1	<1
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	5	µg/kg	<5	----	<5	<5	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
Perfluorohexanoic acid (PFHxA)	307-24-4	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	5.0	µg/kg	<5.0	----	<5.0	<5.0	----

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Analytical Results

Sub-Matrix: **SOIL**
(Matrix: **SOIL**)

Compound	CAS Number	LOR	Unit	Sample ID	BUR_BH106_4.0	BUR_BH106_5.0	D02_20211217	BUR_BH107_0.2	BUR_BH107_1.0
				Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
					ES2146625-016	ES2146625-017	ES2146625-018	ES2146625-019	ES2146625-020
					Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids - Continued									
Perfluorooctanoic acid (PFOA)	335-67-1	5.0	µg/kg		<5.0	----	<5.0	<5.0	---
Perfluorononanoic acid (PFNA)	375-95-1	5.0	µg/kg		<5.0	----	<5.0	<5.0	---
Perfluorodecanoic acid (PFDA)	335-76-2	5.0	µg/kg		<5.0	----	<5.0	<5.0	---
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	5.0	µg/kg		<5.0	----	<5.0	<5.0	---
Perfluorododecanoic acid (PFDoDA)	307-55-1	5.0	µg/kg		<5.0	----	<5.0	<5.0	---
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	5.0	µg/kg		<5.0	----	<5.0	<5.0	---
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	5.0	µg/kg		<5.0	----	<5.0	<5.0	---
EP231C: Perfluoroalkyl Sulfonamides									
Perfluorooctane sulfonamide (FOSA)	754-91-6	5.0	µg/kg		<5.0	----	<5.0	<5.0	---
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	5.0	µg/kg		<5.0	----	<5.0	<5.0	---
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	5.0	µg/kg		<5.0	----	<5.0	<5.0	---
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	5.0	µg/kg		<5.0	----	<5.0	<5.0	---
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	5.0	µg/kg		<5.0	----	<5.0	<5.0	---
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	5.0	µg/kg		<5.0	----	<5.0	<5.0	---
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	5.0	µg/kg		<5.0	----	<5.0	<5.0	---
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	5.0	µg/kg		<5.0	----	<5.0	<5.0	---
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	5.0	µg/kg		<5.0	---	<5.0	<5.0	---
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	5.0	µg/kg		<5.0	---	<5.0	<5.0	---

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH106_4.0	BUR_BH106_5.0	D02_20211217	BUR_BH107_0.2	BUR_BH107_1.0
			Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00	17-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146625-016	ES2146625-017	ES2146625-018	ES2146625-019	ES2146625-020
				Result	Result	Result	Result	Result
EP231D: (n:2) Fluorotelomer Sulfonic Acids - Continued								
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
EP231P: PFAS Sums								
Sum of PFAS	----	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
Sum of PFAS (WA DER List)	----	5.0	µg/kg	<5.0	----	<5.0	<5.0	----
EP066S: PCB Surrogate								
Decachlorobiphenyl	2051-24-3	0.1	%	110	83.0	87.1	74.7	96.7
EP068S: Organochlorine Pesticide Surrogate								
Dibromo-DDE	21655-73-2	0.05	%	127	94.3	91.1	83.5	97.5
EP068T: Organophosphorus Pesticide Surrogate								
DEF	78-48-8	0.05	%	94.6	78.4	71.6	85.1	92.0
EP074S: VOC Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.5	%	92.7	----	118	----	122
Toluene-D8	2037-26-5	0.5	%	91.9	----	109	----	121
4-Bromofluorobenzene	460-00-4	0.5	%	81.0	----	100	----	109
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.5	%	95.9	93.5	95.1	91.4	93.7
2-Chlorophenol-D4	93951-73-6	0.5	%	93.8	91.4	92.7	88.8	89.8
2.4.6-Tribromophenol	118-79-6	0.5	%	79.3	72.5	75.9	79.9	82.2
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.5	%	98.7	95.3	97.5	96.1	95.3
Anthracene-d10	1719-06-8	0.5	%	99.7	96.4	96.2	98.1	100
4-Terphenyl-d14	1718-51-0	0.5	%	91.7	87.9	91.0	90.0	89.2
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	80.0	95.4	102	80.1	105
Toluene-D8	2037-26-5	0.2	%	85.7	106	102	87.6	112
4-Bromofluorobenzene	460-00-4	0.2	%	83.9	93.4	103	84.7	111
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	98.5	----	97.0	95.5	----
13C8-PFOA	----	0.0002	%	116	----	113	118	----

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Analytical Results

Sub-Matrix: **SOIL**
(Matrix: **SOIL**)

Compound	CAS Number	LOR	Unit	Sample ID	BUR_BH107_3.0	BUR_BH107_5.0	BUR_BH102_0.15 Received as extra sample	Trip Blank 1 Received as extra sample	Trip Spike 23 Received as extra sample
				Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	16-Dec-2021 00:00	15-Dec-2021 00:00	13-Dec-2021 00:00
					ES2146625-022	ES2146625-023	ES2146625-024	ES2146625-025	ES2146625-026
					Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	0.1	%		11.5	8.4	----	----	----
EA200: AS 4964 - 2004 Identification of Asbestos in Soils									
Asbestos Detected	1332-21-4	0.1	g/kg		----	----	No	----	----
Asbestos (Trace)	1332-21-4	5	Fibres		----	----	No	----	----
Asbestos Type	1332-21-4	-	--		----	----	-	----	----
Synthetic Mineral Fibre	----	0.1	g/kg		----	----	No	----	----
Organic Fibre	----	0.1	g/kg		----	----	No	----	----
Sample weight (dry)	----	0.01	g		----	----	125	----	----
APPROVED IDENTIFIER:	----	-	--		----	----	B.SCHRADER	----	----
EG005(ED093)T: Total Metals by ICP-AES									
Arsenic	7440-38-2	5	mg/kg		12	9	----	----	----
Cadmium	7440-43-9	1	mg/kg		<1	<1	----	----	----
Chromium	7440-47-3	2	mg/kg		10	13	----	----	----
Copper	7440-50-8	5	mg/kg		20	69	----	----	----
Lead	7439-92-1	5	mg/kg		10	20	----	----	----
Nickel	7440-02-0	2	mg/kg		<2	43	----	----	----
Zinc	7440-66-6	5	mg/kg		8	194	----	----	----
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg		<0.1	<0.1	----	----	----
EP066: Polychlorinated Biphenyls (PCB)									
Total Polychlorinated biphenyls	----	0.1	mg/kg		<0.1	<0.1	----	----	----
EP068A: Organochlorine Pesticides (OC)									
alpha-BHC	319-84-6	0.05	mg/kg		<0.05	<0.05	----	----	----
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg		<0.05	<0.05	----	----	----
beta-BHC	319-85-7	0.05	mg/kg		<0.05	<0.05	----	----	----
gamma-BHC	58-89-9	0.05	mg/kg		<0.05	<0.05	----	----	----
delta-BHC	319-86-8	0.05	mg/kg		<0.05	<0.05	----	----	----
Heptachlor	76-44-8	0.05	mg/kg		<0.05	<0.05	----	----	----
Aldrin	309-00-2	0.05	mg/kg		<0.05	<0.05	----	----	----
Heptachlor epoxide	1024-57-3	0.05	mg/kg		<0.05	<0.05	----	----	----
^ Total Chlordane (sum)	----	0.05	mg/kg		<0.05	<0.05	----	----	----
trans-Chlordane	5103-74-2	0.05	mg/kg		<0.05	<0.05	----	----	----
alpha-Endosulfan	959-98-8	0.05	mg/kg		<0.05	<0.05	----	----	----

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Analytical Results

Sub-Matrix: **SOIL**
(Matrix: **SOIL**)

Compound	CAS Number	LOR	Unit	Sample ID	BUR_BH107_3.0	BUR_BH107_5.0	BUR_BH102_0.15 Received as extra sample	Trip Blank 1 Received as extra sample	Trip Spike 23 Received as extra sample
				Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	16-Dec-2021 00:00	15-Dec-2021 00:00	13-Dec-2021 00:00
					ES2146625-022	ES2146625-023	ES2146625-024	ES2146625-025	ES2146625-026
					Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued									
cis-Chlordane	5103-71-9	0.05	mg/kg		<0.05	<0.05	----	----	----
Dieldrin	60-57-1	0.05	mg/kg		<0.05	<0.05	----	----	----
4.4`-DDE	72-55-9	0.05	mg/kg		<0.05	<0.05	----	----	----
Endrin	72-20-8	0.05	mg/kg		<0.05	<0.05	----	----	----
beta-Endosulfan	33213-65-9	0.05	mg/kg		<0.05	<0.05	----	----	----
^ Endosulfan (sum)	115-29-7	0.05	mg/kg		<0.05	<0.05	----	----	----
4.4`-DDD	72-54-8	0.05	mg/kg		<0.05	<0.05	----	----	----
Endrin aldehyde	7421-93-4	0.05	mg/kg		<0.05	<0.05	----	----	----
Endosulfan sulfate	1031-07-8	0.05	mg/kg		<0.05	<0.05	----	----	----
4.4`-DDT	50-29-3	0.2	mg/kg		<0.2	<0.2	----	----	----
Endrin ketone	53494-70-5	0.05	mg/kg		<0.05	<0.05	----	----	----
Methoxychlor	72-43-5	0.2	mg/kg		<0.2	<0.2	----	----	----
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg		<0.05	<0.05	----	----	----
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-29-3	0.05	mg/kg		<0.05	<0.05	----	----	----
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.05	mg/kg		<0.05	<0.05	----	----	----
Demeton-S-methyl	919-86-8	0.05	mg/kg		<0.05	<0.05	----	----	----
Monocrotophos	6923-22-4	0.2	mg/kg		<0.2	<0.2	----	----	----
Dimethoate	60-51-5	0.05	mg/kg		<0.05	<0.05	----	----	----
Diazinon	333-41-5	0.05	mg/kg		<0.05	<0.05	----	----	----
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg		<0.05	<0.05	----	----	----
Parathion-methyl	298-00-0	0.2	mg/kg		<0.2	<0.2	----	----	----
Malathion	121-75-5	0.05	mg/kg		<0.05	<0.05	----	----	----
Fenthion	55-38-9	0.05	mg/kg		<0.05	<0.05	----	----	----
Chlorpyrifos	2921-88-2	0.05	mg/kg		<0.05	<0.05	----	----	----
Parathion	56-38-2	0.2	mg/kg		<0.2	<0.2	----	----	----
Pirimphos-ethyl	23505-41-1	0.05	mg/kg		<0.05	<0.05	----	----	----
Chlorfenvinphos	470-90-6	0.05	mg/kg		<0.05	<0.05	----	----	----
Bromophos-ethyl	4824-78-6	0.05	mg/kg		<0.05	<0.05	----	----	----
Fenamiphos	22224-92-6	0.05	mg/kg		<0.05	<0.05	----	----	----
Prothiofos	34643-46-4	0.05	mg/kg		<0.05	<0.05	----	----	----
Ethion	563-12-2	0.05	mg/kg		<0.05	<0.05	----	----	----

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Analytical Results

Sub-Matrix: **SOIL**
(Matrix: **SOIL**)

Compound	CAS Number	LOR	Unit	Sample ID	BUR_BH107_3.0	BUR_BH107_5.0	BUR_BH102_0.15 Received as extra sample	Trip Blank 1 Received as extra sample	Trip Spike 23 Received as extra sample
				Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	16-Dec-2021 00:00	15-Dec-2021 00:00	13-Dec-2021 00:00
					ES2146625-022	ES2146625-023	ES2146625-024	ES2146625-025	ES2146625-026
					Result	Result	Result	Result	Result
EP068B: Organophosphorus Pesticides (OP) - Continued									
Carbophenothion	786-19-6	0.05	mg/kg		<0.05	<0.05	----	----	----
Azinphos Methyl	86-50-0	0.05	mg/kg		<0.05	<0.05	----	----	----
EP074A: Monocyclic Aromatic Hydrocarbons									
Benzene	71-43-2	0.2	mg/kg		<0.2	<0.2	----	----	----
Toluene	108-88-3	0.5	mg/kg		<0.5	<0.5	----	----	----
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	<0.5	----	----	----
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	<0.5	----	----	----
Styrene	100-42-5	0.5	mg/kg		<0.5	<0.5	----	----	----
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	<0.5	----	----	----
Isopropylbenzene	98-82-8	0.5	mg/kg		<0.5	<0.5	----	----	----
n-Propylbenzene	103-65-1	0.5	mg/kg		<0.5	<0.5	----	----	----
1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg		<0.5	<0.5	----	----	----
sec-Butylbenzene	135-98-8	0.5	mg/kg		<0.5	<0.5	----	----	----
1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg		<0.5	<0.5	----	----	----
tert-Butylbenzene	98-06-6	0.5	mg/kg		<0.5	<0.5	----	----	----
p-Isopropyltoluene	99-87-6	0.5	mg/kg		<0.5	<0.5	----	----	----
n-Butylbenzene	104-51-8	0.5	mg/kg		<0.5	<0.5	----	----	----
EP074B: Oxygenated Compounds									
Vinyl Acetate	108-05-4	5	mg/kg		<5	<5	----	----	----
2-Butanone (MEK)	78-93-3	5	mg/kg		<5	<5	----	----	----
4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg		<5	<5	----	----	----
2-Hexanone (MBK)	591-78-6	5	mg/kg		<5	<5	----	----	----
EP074C: Sulfonated Compounds									
Carbon disulfide	75-15-0	0.5	mg/kg		<0.5	<0.5	----	----	----
EP074D: Fumigants									
2.2-Dichloropropane	594-20-7	0.5	mg/kg		<0.5	<0.5	----	----	----
1.2-Dichloropropane	78-87-5	0.5	mg/kg		<0.5	<0.5	----	----	----
cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg		<0.5	<0.5	----	----	----
trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg		<0.5	<0.5	----	----	----
1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg		<0.5	<0.5	----	----	----
EP074E: Halogenated Aliphatic Compounds									
Dichlorodifluoromethane	75-71-8	5	mg/kg		<5	<5	----	----	----
Chloromethane	74-87-3	5	mg/kg		<5	<5	----	----	----

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Analytical Results

Sub-Matrix: **SOIL**
(Matrix: **SOIL**)

Compound	CAS Number	LOR	Unit	Sample ID	BUR_BH107_3.0	BUR_BH107_5.0	BUR_BH102_0.15 Received as extra sample	Trip Blank 1 Received as extra sample	Trip Spike 23 Received as extra sample
				Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	16-Dec-2021 00:00	15-Dec-2021 00:00	13-Dec-2021 00:00
					ES2146625-022	ES2146625-023	ES2146625-024	ES2146625-025	ES2146625-026
					Result	Result	Result	Result	Result
EP074E: Halogenated Aliphatic Compounds - Continued									
Vinyl chloride	75-01-4	5	mg/kg		<5	<5	----	----	----
Bromomethane	74-83-9	5	mg/kg		<5	<5	----	----	----
Chloroethane	75-00-3	5	mg/kg		<5	<5	----	----	----
Trichlorofluoromethane	75-69-4	5	mg/kg		<5	<5	----	----	----
1.1-Dichloroethene	75-35-4	0.5	mg/kg		<0.5	<0.5	----	----	----
Iodomethane	74-88-4	0.5	mg/kg		<0.5	<0.5	----	----	----
trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg		<0.5	<0.5	----	----	----
1.1-Dichloroethane	75-34-3	0.5	mg/kg		<0.5	<0.5	----	----	----
cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg		<0.5	<0.5	----	----	----
1.1.1-Trichloroethane	71-55-6	0.5	mg/kg		<0.5	<0.5	----	----	----
1.1-Dichloropropylene	563-58-6	0.5	mg/kg		<0.5	<0.5	----	----	----
Carbon Tetrachloride	56-23-5	0.5	mg/kg		<0.5	<0.5	----	----	----
1.2-Dichloroethane	107-06-2	0.5	mg/kg		<0.5	<0.5	----	----	----
Trichloroethene	79-01-6	0.5	mg/kg		<0.5	<0.5	----	----	----
Dibromomethane	74-95-3	0.5	mg/kg		<0.5	<0.5	----	----	----
1.1.2-Trichloroethane	79-00-5	0.5	mg/kg		<0.5	<0.5	----	----	----
1.3-Dichloropropane	142-28-9	0.5	mg/kg		<0.5	<0.5	----	----	----
Tetrachloroethene	127-18-4	0.5	mg/kg		<0.5	<0.5	----	----	----
1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg		<0.5	<0.5	----	----	----
trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg		<0.5	<0.5	----	----	----
cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg		<0.5	<0.5	----	----	----
1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg		<0.5	<0.5	----	----	----
1.2.3-Trichloropropane	96-18-4	0.5	mg/kg		<0.5	<0.5	----	----	----
Pentachloroethane	76-01-7	0.5	mg/kg		<0.5	<0.5	----	----	----
1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg		<0.5	<0.5	----	----	----
Hexachlorobutadiene	87-68-3	0.5	mg/kg		<0.5	<0.5	----	----	----
EP074F: Halogenated Aromatic Compounds									
Chlorobenzene	108-90-7	0.5	mg/kg		<0.5	<0.5	----	----	----
Bromobenzene	108-86-1	0.5	mg/kg		<0.5	<0.5	----	----	----
2-Chlorotoluene	95-49-8	0.5	mg/kg		<0.5	<0.5	----	----	----
4-Chlorotoluene	106-43-4	0.5	mg/kg		<0.5	<0.5	----	----	----
1.3-Dichlorobenzene	541-73-1	0.5	mg/kg		<0.5	<0.5	----	----	----
1.4-Dichlorobenzene	106-46-7	0.5	mg/kg		<0.5	<0.5	----	----	----

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Analytical Results

Sub-Matrix: **SOIL**
(Matrix: **SOIL**)

Compound	CAS Number	LOR	Unit	Sample ID	BUR_BH107_3.0	BUR_BH107_5.0	BUR_BH102_0.15 Received as extra sample	Trip Blank 1 Received as extra sample	Trip Spike 23 Received as extra sample
				Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	16-Dec-2021 00:00	15-Dec-2021 00:00	13-Dec-2021 00:00
					ES2146625-022	ES2146625-023	ES2146625-024	ES2146625-025	ES2146625-026
					Result	Result	Result	Result	Result
EP074F: Halogenated Aromatic Compounds - Continued									
1.2-Dichlorobenzene	95-50-1	0.5	mg/kg		<0.5	<0.5	----	----	----
1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg		<0.5	<0.5	----	----	----
1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg		<0.5	<0.5	----	----	----
EP074G: Trihalomethanes									
Chloroform	67-66-3	0.5	mg/kg		<0.5	<0.5	----	----	----
Bromodichloromethane	75-27-4	0.5	mg/kg		<0.5	<0.5	----	----	----
Dibromochloromethane	124-48-1	0.5	mg/kg		<0.5	<0.5	----	----	----
Bromoform	75-25-2	0.5	mg/kg		<0.5	<0.5	----	----	----
EP074H: Naphthalene									
Naphthalene	91-20-3	1	mg/kg		<1	<1	----	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg		<0.5	<0.5	----	----	----
Acenaphthylene	208-96-8	0.5	mg/kg		<0.5	<0.5	----	----	----
Acenaphthene	83-32-9	0.5	mg/kg		<0.5	<0.5	----	----	----
Fluorene	86-73-7	0.5	mg/kg		<0.5	<0.5	----	----	----
Phenanthrene	85-01-8	0.5	mg/kg		<0.5	<0.5	----	----	----
Anthracene	120-12-7	0.5	mg/kg		<0.5	<0.5	----	----	----
Fluoranthene	206-44-0	0.5	mg/kg		<0.5	<0.5	----	----	----
Pyrene	129-00-0	0.5	mg/kg		<0.5	<0.5	----	----	----
Benz(a)anthracene	56-55-3	0.5	mg/kg		<0.5	<0.5	----	----	----
Chrysene	218-01-9	0.5	mg/kg		<0.5	<0.5	----	----	----
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg		<0.5	<0.5	----	----	----
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg		<0.5	<0.5	----	----	----
Benzo(a)pyrene	50-32-8	0.5	mg/kg		<0.5	<0.5	----	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		<0.5	<0.5	----	----	----
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		<0.5	<0.5	----	----	----
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		<0.5	<0.5	----	----	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg		<0.5	<0.5	----	----	----
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg		<0.5	<0.5	----	----	----
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg		**0.6**	**0.6**	----	----	----
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg		**1.2**	**1.2**	----	----	----
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg		<10	<10	----	<10	----

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Analytical Results

Sub-Matrix: **SOIL**
(Matrix: **SOIL**)

Compound	CAS Number	LOR	Unit	Sample ID	BUR_BH107_3.0	BUR_BH107_5.0	BUR_BH102_0.15 Received as extra sample	Trip Blank 1 Received as extra sample	Trip Spike 23 Received as extra sample
				Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	16-Dec-2021 00:00	15-Dec-2021 00:00	13-Dec-2021 00:00
					ES2146625-022	ES2146625-023	ES2146625-024	ES2146625-025	ES2146625-026
					Result	Result	Result	Result	Result
EP080/071: Total Petroleum Hydrocarbons - Continued									
C10 - C14 Fraction	----	50	mg/kg		<50	<50	----	----	----
C15 - C28 Fraction	----	100	mg/kg		<100	<100	----	----	----
C29 - C36 Fraction	----	100	mg/kg		<100	<100	----	----	----
^ C10 - C36 Fraction (sum)	----	50	mg/kg		<50	<50	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		<10	<10	----	<10	----
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg		<10	<10	----	<10	----
>C10 - C16 Fraction	----	50	mg/kg		<50	<50	----	----	----
>C16 - C34 Fraction	----	100	mg/kg		<100	<100	----	----	----
>C34 - C40 Fraction	----	100	mg/kg		<100	<100	----	----	----
^ >C10 - C40 Fraction (sum)	----	50	mg/kg		<50	<50	----	----	----
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		<50	<50	----	----	----
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		<0.2	<0.2	----	<0.2	0.2
Toluene	108-88-3	0.5	mg/kg		<0.5	<0.5	----	<0.5	23.4
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	<0.5	----	<0.5	4.3
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	<0.5	----	<0.5	21.2
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	<0.5	----	<0.5	8.8
^ Sum of BTEX	----	0.2	mg/kg		<0.2	<0.2	----	<0.2	57.9
^ Total Xylenes	----	0.5	mg/kg		<0.5	<0.5	----	<0.5	30.0
Naphthalene	91-20-3	1	mg/kg		<1	<1	----	<1	<1
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	5.0	µg/kg		<5.0	----	----	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	5.0	µg/kg		<5.0	----	----	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	5.0	µg/kg		<5.0	----	----	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	5.0	µg/kg		<5.0	----	----	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	5.0	µg/kg		<5.0	----	----	----	----

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Analytical Results

Sub-Matrix: **SOIL**
(Matrix: **SOIL**)

Compound	CAS Number	LOR	Unit	Sample ID	BUR_BH107_3.0	BUR_BH107_5.0	BUR_BH102_0.15 Received as extra sample	Trip Blank 1 Received as extra sample	Trip Spike 23 Received as extra sample
				Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	16-Dec-2021 00:00	15-Dec-2021 00:00	13-Dec-2021 00:00
					ES2146625-022	ES2146625-023	ES2146625-024	ES2146625-025	ES2146625-026
					Result	Result	Result	Result	Result
EP231A: Perfluoroalkyl Sulfonic Acids - Continued									
Perfluorodecane sulfonic acid (PFDS)	335-77-3	5.0	µg/kg		<5.0	----	----	----	----
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	5	µg/kg		<5	----	----	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	5.0	µg/kg		<5.0	----	----	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	5.0	µg/kg		<5.0	----	----	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	5.0	µg/kg		<5.0	----	----	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	5.0	µg/kg		<5.0	----	----	----	----
Perfluorononanoic acid (PFNA)	375-95-1	5.0	µg/kg		<5.0	----	----	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	5.0	µg/kg		<5.0	----	----	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	5.0	µg/kg		<5.0	----	----	----	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	5.0	µg/kg		<5.0	----	----	----	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	5.0	µg/kg		<5.0	----	----	----	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	5.0	µg/kg		<5.0	----	----	----	----
EP231C: Perfluoroalkyl Sulfonamides									
Perfluorooctane sulfonamide (FOSA)	754-91-6	5.0	µg/kg		<5.0	----	----	----	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	5.0	µg/kg		<5.0	----	----	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	5.0	µg/kg		<5.0	----	----	----	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	5.0	µg/kg		<5.0	----	----	----	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	5.0	µg/kg		<5.0	----	----	----	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	5.0	µg/kg		<5.0	----	----	----	----

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Analytical Results

Sub-Matrix: **SOIL**
(Matrix: **SOIL**)

				Sample ID	BUR_BH107_3.0	BUR_BH107_5.0	BUR_BH102_0.15 Received as extra sample	Trip Blank 1 Received as extra sample	Trip Spike 23 Received as extra sample
				Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	16-Dec-2021 00:00	15-Dec-2021 00:00	13-Dec-2021 00:00
Compound	*CAS Number*	*LOR*	*Unit*		ES2146625-022	ES2146625-023	ES2146625-024	ES2146625-025	ES2146625-026
					Result	Result	Result	Result	Result
EP231C: Perfluoroalkyl Sulfonamides - Continued									
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	5.0	µg/kg		<5.0	----	----	----	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	5.0	µg/kg		<5.0	----	----	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	5.0	µg/kg		<5.0	----	----	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	5.0	µg/kg		<5.0	----	----	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	5.0	µg/kg		<5.0	----	----	----	----
EP231P: PFAS Sums									
Sum of PFAS	----	5.0	µg/kg		<5.0	----	----	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	5.0	µg/kg		<5.0	----	----	----	----
Sum of PFAS (WA DER List)	----	5.0	µg/kg		<5.0	----	----	----	----
EP066S: PCB Surrogate									
Decachlorobiphenyl	2051-24-3	0.1	%		**99.1**	**95.8**	----	----	----
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%		**117**	**117**	----	----	----
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%		**84.1**	**82.3**	----	----	----
EP074S: VOC Surrogates									
1.2-Dichloroethane-D4	17060-07-0	0.5	%		**121**	**117**	----	----	----
Toluene-D8	2037-26-5	0.5	%		**112**	**113**	----	----	----
4-Bromofluorobenzene	460-00-4	0.5	%		**104**	**111**	----	----	----
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%		**90.3**	**91.3**	----	----	----
2-Chlorophenol-D4	93951-73-6	0.5	%		**96.4**	**100**	----	----	----
2.4.6-Tribromophenol	118-79-6	0.5	%		**91.8**	**87.1**	----	----	----
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%		**106**	**109**	----	----	----

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Analytical Results

Sub-Matrix: **SOIL**
(Matrix: **SOIL**)

				Sample ID	BUR_BH107_3.0	BUR_BH107_5.0	BUR_BH102_0.15 Received as extra sample	Trip Blank 1 Received as extra sample	Trip Spike 23 Received as extra sample
				Sampling date / time	17-Dec-2021 00:00	17-Dec-2021 00:00	16-Dec-2021 00:00	15-Dec-2021 00:00	13-Dec-2021 00:00
Compound	CAS Number	LOR	Unit		ES2146625-022	ES2146625-023	ES2146625-024	ES2146625-025	ES2146625-026
					Result	Result	Result	Result	Result
EP075(SIM)T: PAH Surrogates - Continued									
Anthracene-d10	1719-06-8	0.5	%		98.4	101	----	----	----
4-Terphenyl-d14	1718-51-0	0.5	%		101	104	----	----	----
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	0.2	%		104	101	----	108	95.2
Toluene-D8	2037-26-5	0.2	%		104	106	----	107	110
4-Bromofluorobenzene	460-00-4	0.2	%		106	114	----	86.1	109
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.0002	%		95.0	----	----	----	----
13C8-PFOA	----	0.0002	%		117	----	----	----	----

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TSC 23	----	----	-----	-----
				Sampling date / time	13-Dec-2021 00:00	----	----	---	---
Compound	CAS Number	LOR	Unit		ES2146625-027	--------	--------	------	------
					Result	---	---	---	---
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		**0.3**	----	----	----	----
Toluene	108-88-3	0.5	mg/kg		**27.8**	----	----	----	----
Ethylbenzene	100-41-4	0.5	mg/kg		**5.0**	----	----	----	----
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		**24.7**	----	----	----	----
ortho-Xylene	95-47-6	0.5	mg/kg		**10.2**	----	----	----	----
^ **Sum of BTEX**	----	0.2	mg/kg		**68.0**	----	----	----	----
^ **Total Xylenes**	----	0.5	mg/kg		**34.9**	----	----	----	----
Naphthalene	91-20-3	1	mg/kg		<1	----	----	----	----
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	0.2	%		**95.7**	----	----	----	----
Toluene-D8	2037-26-5	0.2	%		**110**	----	----	----	----
4-Bromofluorobenzene	460-00-4	0.2	%		**111**	----	----	----	----

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Analytical Results

Sub-Matrix: **WATER** (Matrix: **WATER**)

				Sample ID	R03_20211217 Received as extra sample	----	----	----	----
				Sampling date / time	17-Dec-2021 00:00	----	----	---	---
Compound	CAS Number	LOR	Unit		ES2146625-031	--------	--------	------	------
					Result	---	---	---	---
EG020F: Dissolved Metals by ICP-MS									
Arsenic	7440-38-2	0.001	mg/L		<0.001	---	---	---	---
Cadmium	7440-43-9	0.0001	mg/L		<0.0001	---	---	---	---
Chromium	7440-47-3	0.001	mg/L		<0.001	---	---	---	---
Copper	7440-50-8	0.001	mg/L		<0.001	---	---	---	---
Nickel	7440-02-0	0.001	mg/L		<0.001	---	---	---	---
Lead	7439-92-1	0.001	mg/L		<0.001	---	---	---	---
Zinc	7440-66-6	0.005	mg/L		<0.005	---	---	---	---
EG035F: Dissolved Mercury by FIMS									
Mercury	7439-97-6	0.0001	mg/L		<0.0001	---	---	---	---
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	---	20	µg/L		<20	---	---	---	---
C10 - C14 Fraction	---	50	µg/L		<50	---	---	---	---
C15 - C28 Fraction	---	100	µg/L		<100	---	---	---	---
C29 - C36 Fraction	---	50	µg/L		<50	---	---	---	---
^ **C10 - C36 Fraction (sum)**	---	50	µg/L		<50	---	---	---	---
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	20	µg/L		<20	---	---	---	---
^ **C6 - C10 Fraction minus BTEX (F1)**	C6_C10-BTEX	20	µg/L		<20	---	---	---	---
>C10 - C16 Fraction	---	100	µg/L		<100	---	---	---	---
>C16 - C34 Fraction	---	100	µg/L		<100	---	---	---	---
>C34 - C40 Fraction	---	100	µg/L		<100	---	---	---	---
^ **>C10 - C40 Fraction (sum)**	---	100	µg/L		<100	---	---	---	---
^ **>C10 - C16 Fraction minus Naphthalene (F2)**	---	100	µg/L		<100	---	---	---	---
EP080: BTEXN									
Benzene	71-43-2	1	µg/L		<1	---	---	---	---
Toluene	108-88-3	2	µg/L		<2	---	---	---	---
Ethylbenzene	100-41-4	2	µg/L		<2	---	---	---	---
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L		<2	---	---	---	---
ortho-Xylene	95-47-6	2	µg/L		<2	---	---	---	---
^ **Total Xylenes**	---	2	µg/L		<2	---	---	---	---
^ **Sum of BTEX**	---	1	µg/L		<1	---	---	---	---

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Analytical Results

Sub-Matrix: **WATER**
(Matrix: **WATER**)

Compound	CAS Number	LOR	Unit	Sample ID	R03_20211217 Received as extra sample	----	----	----
				Sampling date / time	17-Dec-2021 00:00	----	----	----
					ES2146625-031	--------	--------	--------
					Result	----	----	----
EP080: BTEXN - Continued								
Naphthalene	91-20-3	5	µg/L		<5	----	----	----
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L		<0.02	----	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L		<0.02	----	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L		<0.01	----	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L		<0.02	----	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L		<0.01	----	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L		<0.02	----	----	----
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L		<0.1	----	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L		<0.02	----	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L		<0.02	----	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L		<0.02	----	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L		<0.01	----	----	----
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L		<0.02	----	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L		<0.02	----	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L		<0.02	----	----	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L		<0.02	----	----	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L		<0.02	----	----	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L		<0.05	----	----	----
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L		<0.02	----	----	----

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Analytical Results

Sub-Matrix: **WATER**
(Matrix: **WATER**)

				Sample ID	R03_20211217 Received as extra sample	----	----	----	----
				Sampling date / time	17-Dec-2021 00:00	----	----	----	----
Compound	CAS Number	LOR	Unit		ES2146625-031	--------	--------	--------	--------
					Result	----	----	----	----
EP231C: Perfluoroalkyl Sulfonamides - Continued									
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L		<0.05	----	----	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L		<0.05	----	----	----	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L		<0.05	----	----	----	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L		<0.05	----	----	----	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L		<0.02	----	----	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L		<0.02	----	----	----	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L		<0.05	----	----	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L		<0.05	----	----	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L		<0.05	----	----	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L		<0.05	----	----	----	----
EP231P: PFAS Sums									
Sum of PFAS	----	0.01	µg/L		<0.01	----	----	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L		<0.01	----	----	----	----
Sum of PFAS (WA DER List)	----	0.01	µg/L		<0.01	----	----	----	----
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	2	%		**104**	----	----	----	----
Toluene-D8	2037-26-5	2	%		**101**	----	----	----	----
4-Bromofluorobenzene	460-00-4	2	%		**104**	----	----	----	----
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.02	%		**83.0**	----	----	----	----

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Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	R03_20211217 Received as extra sample	----	----	----	----
				Sampling date / time	17-Dec-2021 00:00	----	----	---	---
Compound	CAS Number	LOR	Unit		ES2146625-031	--------	--------	------	------
					Result	---	---	---	---
EP231S: PFAS Surrogate - Continued									
13C8-PFOA	----	0.02	%		89.6	----	----	----	----

Analytical Results

Descriptive Results

Sub-Matrix: **SOIL**

Method: Compound	Sample ID - Sampling date / time	Analytical Results
EA200: AS 4964 - 2004 Identification of Asbestos in Soils		
EA200: Description	BUR_BH106_0.2 - 17-Dec-2021 00:00	A soil sample.
EA200: Description	BUR_BH107_0.2 - 17-Dec-2021 00:00	A soil sample.
EA200: Description	BUR_BH102_0.15Received as extra sample - 16-Dec-2021 00:00	A soil sample.

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Surrogate Control Limits

Sub-Matrix: SOIL		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP066S: PCB Surrogate			
Decachlorobiphenyl	2051-24-3	39	149
EP068S: Organochlorine Pesticide Surrogate			
Dibromo-DDE	21655-73-2	49	147
EP068T: Organophosphorus Pesticide Surrogate			
DEF	78-48-8	35	143
EP074S: VOC Surrogates			
1.2-Dichloroethane-D4	17060-07-0	64	130
Toluene-D8	2037-26-5	66	136
4-Bromofluorobenzene	460-00-4	60	122
EP075(SIM)S: Phenolic Compound Surrogates			
Phenol-d6	13127-88-3	63	123
2-Chlorophenol-D4	93951-73-6	66	122
2.4.6-Tribromophenol	118-79-6	40	138
EP075(SIM)T: PAH Surrogates			
2-Fluorobiphenyl	321-60-8	70	122
Anthracene-d10	1719-06-8	66	128
4-Terphenyl-d14	1718-51-0	65	129
EP080S: TPH(V)/BTEX Surrogates			
1.2-Dichloroethane-D4	17060-07-0	73	133
Toluene-D8	2037-26-5	74	132
4-Bromofluorobenzene	460-00-4	72	130
EP231S: PFAS Surrogate			
13C4-PFOS	----	60	120
13C8-PFOA	----	60	120

Sub-Matrix: WATER		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP080S: TPH(V)/BTEX Surrogates			
1.2-Dichloroethane-D4	17060-07-0	71	137
Toluene-D8	2037-26-5	79	131
4-Bromofluorobenzene	460-00-4	70	128
EP231S: PFAS Surrogate			
13C4-PFOS	----	60	120
13C8-PFOA	----	60	120

Inter-Laboratory Testing

Analysis conducted by ALS Newcastle, NATA accreditation no. 825, site no. 1656 (Chemistry) 9854 (Biology).

(SOIL) EA200: AS 4964 - 2004 Identification of Asbestos in Soils

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ALS Environmental

QUALITY CONTROL REPORT

Work Order	: **ES2146625**	Page	: 1 of 35
Amendment	: **1**		
Client	: **ENVIRONMENTAL RESOURCES MANAGEMENT (ERM)**	Laboratory	: Environmental Division Sydney
Contact	: MS JESSICA LAWRENCE	Contact	: Customer Services ES
Address	: LEVEL 15 309 KENT STREET SYDNEY NSW AUSTRALIA 2000	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: +61 02 8584 8888	Telephone	: +61-2-8784 8555
Project	: 0577577-Burwood	Date Samples Received	: 20-Dec-2021
Order number	: ----	Date Analysis Commenced	: 21-Dec-2021
C-O-C number	: ----	Issue Date	: 02-Feb-2022
Sampler	: TRISTAN RODRIGUES		
Site	: ----		
Quote number	: EN/114		
No. of samples received	: 31		
No. of samples analysed	: 27		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Alex Rossi	Organic Chemist	Sydney Organics, Smithfield, NSW
Brendan Schrader	Laboratory Technician	Newcastle - Asbestos, Mayfield West, NSW
Franco Lentini	LCMS Coordinator	Sydney Inorganics, Smithfield, NSW
Franco Lentini	LCMS Coordinator	Sydney Organics, Smithfield, NSW
Wisam Marassa	Inorganics Coordinator	Sydney Inorganics, Smithfield, NSW

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General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis. Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Key : Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot
CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
RPD = Relative Percentage Difference
# = Indicates failed QC

Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 4099599)									
ES2146505-001	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	3	2	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	<5	<5	0.0	No Limit
ES2146549-007	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	20	25	23.4	0% - 50%
		EG005T: Nickel	7440-02-0	2	mg/kg	4	4	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	5	7	22.4	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	14	13	0.0	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	30	24	24.8	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	207	200	3.4	0% - 20%
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 4099602)									
ES2146625-007	BUR_BH108_2.0	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	4	3	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	7	5	29.0	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	14	15	0.0	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	<5	<5	0.0	No Limit
ES2146625-017	BUR_BH106_5.0	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	12	12	0.0	No Limit

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Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 4099602) - continued									
ES2146625-017	BUR_BH106_5.0	EG005T: Nickel	7440-02-0	2	mg/kg	27	24	10.8	0% - 50%
		EG005T: Arsenic	7440-38-2	5	mg/kg	12	10	13.1	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	61	58	6.1	0% - 50%
		EG005T: Lead	7439-92-1	5	mg/kg	20	20	0.0	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	144	130	10.7	0% - 20%
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 4099603)									
ES2146549-001	Anonymous	EA055: Moisture Content	----	0.1	%	10.8	7.6	34.9	0% - 50%
ES2146625-002	BUR_BH120_0.2	EA055: Moisture Content	----	0.1	%	21.8	21.5	1.5	0% - 20%
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 4099604)									
ES2146625-011	BUR_BH108_17.0	EA055: Moisture Content	----	0.1	%	4.6	4.4	4.1	0% - 20%
ES2146625-023	BUR_BH107_5.0	EA055: Moisture Content	----	0.1	%	8.4	9.1	8.3	0% - 20%
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 4099600)									
ES2146505-001	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
ES2146549-007	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 4099601)									
ES2146625-007	BUR_BH108_2.0	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
ES2146625-017	BUR_BH106_5.0	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP066: Polychlorinated Biphenyls (PCB) (QC Lot: 4091331)									
ES2146625-001	D03_20211217	EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
ES2146625-011	BUR_BH108_17.0	EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP066: Polychlorinated Biphenyls (PCB) (QC Lot: 4092878)									
ES2146549-001	Anonymous	EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
ES2146590-001	Anonymous	EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP068A: Organochlorine Pesticides (OC) (QC Lot: 4091330)									
ES2146625-001	D03_20211217	EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit

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Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP068A: Organochlorine Pesticides (OC) (QC Lot: 4091330) - continued									
ES2146625-001	D03_20211217	EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
ES2146625-011	BUR_BH108_17.0	EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
EP068A: Organochlorine Pesticides (OC) (QC Lot: 4092877)									
ES2146549-001	Anonymous	EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit

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Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP068A: Organochlorine Pesticides (OC) (QC Lot: 4092877) - continued									
ES2146549-001	Anonymous	EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
ES2146590-001	Anonymous	EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
EP068B: Organophosphorus Pesticides (OP) (QC Lot: 4091330)									
ES2146625-001	D03_20211217	EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit

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Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP068B: Organophosphorus Pesticides (OP) (QC Lot: 4091330) - continued									
ES2146625-001	D03_20211217	EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
ES2146625-011	BUR_BH108_17.0	EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
EP068B: Organophosphorus Pesticides (OP) (QC Lot: 4092877)									
ES2146549-001	Anonymous	EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit

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Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP068B: Organophosphorus Pesticides (OP) (QC Lot: 4092877) - continued									
ES2146549-001	Anonymous	EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
ES2146590-001	Anonymous	EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
EP074A: Monocyclic Aromatic Hydrocarbons (QC Lot: 4096910)									
ES2146615-002	Anonymous	EP074: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP074: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Styrene	100-42-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Isopropylbenzene	98-82-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: n-Propylbenzene	103-65-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: sec-Butylbenzene	135-98-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

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Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP074A: Monocyclic Aromatic Hydrocarbons (QC Lot: 4096910) - continued									
ES2146615-002	Anonymous	EP074: 1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: tert-Butylbenzene	98-06-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: p-Isopropyltoluene	99-87-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: n-Butylbenzene	104-51-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
ES2146625-014	BUR_BH106_2.0	EP074: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP074: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Styrene	100-42-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Isopropylbenzene	98-82-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: n-Propylbenzene	103-65-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: sec-Butylbenzene	135-98-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: tert-Butylbenzene	98-06-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: p-Isopropyltoluene	99-87-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: n-Butylbenzene	104-51-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP074B: Oxygenated Compounds (QC Lot: 4096910)									
ES2146615-002	Anonymous	EP074: Vinyl Acetate	108-05-4	5	mg/kg	<5	<5	0.0	No Limit
		EP074: 2-Butanone (MEK)	78-93-3	5	mg/kg	<5	<5	0.0	No Limit
		EP074: 4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	<5	<5	0.0	No Limit
		EP074: 2-Hexanone (MBK)	591-78-6	5	mg/kg	<5	<5	0.0	No Limit
ES2146625-014	BUR_BH106_2.0	EP074: Vinyl Acetate	108-05-4	5	mg/kg	<5	<5	0.0	No Limit
		EP074: 2-Butanone (MEK)	78-93-3	5	mg/kg	<5	<5	0.0	No Limit
		EP074: 4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	<5	<5	0.0	No Limit
		EP074: 2-Hexanone (MBK)	591-78-6	5	mg/kg	<5	<5	0.0	No Limit
EP074C: Sulfonated Compounds (QC Lot: 4096910)									
ES2146615-002	Anonymous	EP074: Carbon disulfide	75-15-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
ES2146625-014	BUR_BH106_2.0	EP074: Carbon disulfide	75-15-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP074D: Fumigants (QC Lot: 4096910)									
ES2146615-002	Anonymous	EP074: 2.2-Dichloropropane	594-20-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dichloropropane	78-87-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
ES2146625-014	BUR_BH106_2.0	EP074: 2.2-Dichloropropane	594-20-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dichloropropane	78-87-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

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Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP074D: Fumigants (QC Lot: 4096910) - continued									
ES2146625-014	BUR_BH106_2.0	EP074: trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP074E: Halogenated Aliphatic Compounds (QC Lot: 4096910)									
ES2146615-002	Anonymous	EP074: 1.1-Dichloroethene	75-35-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Iodomethane	74-88-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1-Dichloroethane	75-34-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1-Dichloropropylene	563-58-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Carbon Tetrachloride	56-23-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dichloroethane	107-06-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Trichloroethene	79-01-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Dibromomethane	74-95-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.3-Dichloropropane	142-28-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Tetrachloroethene	127-18-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Pentachloroethane	76-01-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Dichlorodifluoromethane	75-71-8	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Chloromethane	74-87-3	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Vinyl chloride	75-01-4	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Bromomethane	74-83-9	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Chloroethane	75-00-3	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Trichlorofluoromethane	75-69-4	5	mg/kg	<5	<5	0.0	No Limit
ES2146625-014	BUR_BH106_2.0	EP074: 1.1-Dichloroethene	75-35-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Iodomethane	74-88-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1-Dichloroethane	75-34-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1-Dichloropropylene	563-58-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Carbon Tetrachloride	56-23-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dichloroethane	107-06-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

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Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP074E: Halogenated Aliphatic Compounds (QC Lot: 4096910) - continued									
ES2146625-014	BUR_BH106_2.0	EP074: Trichloroethene	79-01-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Dibromomethane	74-95-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.3-Dichloropropane	142-28-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Tetrachloroethene	127-18-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Pentachloroethane	76-01-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Dichlorodifluoromethane	75-71-8	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Chloromethane	74-87-3	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Vinyl chloride	75-01-4	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Bromomethane	74-83-9	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Chloroethane	75-00-3	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Trichlorofluoromethane	75-69-4	5	mg/kg	<5	<5	0.0	No Limit
EP074F: Halogenated Aromatic Compounds (QC Lot: 4096910)									
ES2146615-002	Anonymous	EP074: Chlorobenzene	108-90-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Bromobenzene	108-86-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 2-Chlorotoluene	95-49-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 4-Chlorotoluene	106-43-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
ES2146625-014	BUR_BH106_2.0	EP074: Chlorobenzene	108-90-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Bromobenzene	108-86-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 2-Chlorotoluene	95-49-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 4-Chlorotoluene	106-43-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP074G: Trihalomethanes (QC Lot: 4096910)									
ES2146615-002	Anonymous	EP074: Chloroform	67-66-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

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Sub-Matrix: **SOIL**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP074G: Trihalomethanes (QC Lot: 4096910) - continued									
ES2146615-002	Anonymous	EP074: Bromodichloromethane	75-27-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Dibromochloromethane	124-48-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Bromoform	75-25-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
ES2146625-014	BUR_BH106_2.0	EP074: Chloroform	67-66-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Bromodichloromethane	75-27-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Dibromochloromethane	124-48-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Bromoform	75-25-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP074H: Naphthalene (QC Lot: 4096910)									
ES2146615-002	Anonymous	EP074: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
ES2146625-014	BUR_BH106_2.0	EP074: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 4091329)									
ES2146625-001	D03_20211217	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
ES2146625-011	BUR_BH108_17.0	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

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Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 4091329) - continued									
ES2146625-011	BUR_BH108_17.0	EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 4092873)									
ES2146549-001	Anonymous	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
ES2146590-001	Anonymous	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

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Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 4092873) - continued									
ES2146590-001	Anonymous	EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4091328)									
ES2146625-001	D03_20211217	EP071: C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
ES2146625-011	BUR_BH108_17.0	EP071: C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4092876)									
ES2146549-001	Anonymous	EP071: C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
ES2146590-001	Anonymous	EP071: C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4096909)									
ES2146615-002	Anonymous	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
ES2146625-014	BUR_BH106_2.0	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4097205)									
ES2146459-004	Anonymous	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
ES2146549-003	Anonymous	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4097220)									
ES2146346-034	Anonymous	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
ES2146625-003	BUR_BH120_0.5	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4091328)									
ES2146625-001	D03_20211217	EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit

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Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4091328) - continued									
ES2146625-011	BUR_BH108_17.0	EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4092876)									
ES2146549-001	Anonymous	EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
ES2146590-001	Anonymous	EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4096909)									
ES2146615-002	Anonymous	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
ES2146625-014	BUR_BH106_2.0	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4097205)									
ES2146459-004	Anonymous	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
ES2146549-003	Anonymous	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4097220)									
ES2146346-034	Anonymous	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
ES2146625-003	BUR_BH120_0.5	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
EP080: BTEXN (QC Lot: 4096909)									
ES2146615-002	Anonymous	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
ES2146625-014	BUR_BH106_2.0	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
EP080: BTEXN (QC Lot: 4097205)									
ES2146459-004	Anonymous	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

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Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP080: BTEXN (QC Lot: 4097205) - continued									
ES2146459-004	Anonymous	EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
ES2146549-003	Anonymous	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
EP080: BTEXN (QC Lot: 4097220)									
ES2146346-034	Anonymous	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
ES2146625-003	BUR_BH120_0.5	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 4102556)									
ES2146459-001	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
ES2146625-004	BUR_BH108_0.2	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4102556)									

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Sub-Matrix: **SOIL**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4102556) - continued									
ES2146459-001	Anonymous	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	<0.001	0.0	No Limit
ES2146625-004	BUR_BH108_0.2	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<5 µg/kg	<0.005	0.0	No Limit
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4102556)									
ES2146459-001	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
ES2146625-004	BUR_BH108_0.2	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit

Sub-Matrix: **SOIL**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report					
				LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4102556) - continued									
ES2146625-004	BUR_BH108_0.2	EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4102556)									
ES2146459-001	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
ES2146625-004	BUR_BH108_0.2	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit

Sub-Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report					
				LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EG020F: Dissolved Metals by ICP-MS (QC Lot: 4098106)									
ES2146547-007	Anonymous	EG020A-F: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
		EG020A-F: Arsenic	7440-38-2	0.001	mg/L	0.014	0.014	0.0	0% - 50%
		EG020A-F: Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-F: Copper	7440-50-8	0.001	mg/L	0.003	0.003	0.0	No Limit
		EG020A-F: Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-F: Nickel	7440-02-0	0.001	mg/L	0.002	0.002	0.0	No Limit
		EG020A-F: Zinc	7440-66-6	0.005	mg/L	0.129	0.126	1.8	0% - 20%
ES2146547-018	Anonymous	EG020A-F: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
		EG020A-F: Arsenic	7440-38-2	0.001	mg/L	0.002	0.002	0.0	No Limit
		EG020A-F: Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-F: Copper	7440-50-8	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-F: Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	0.0	No Limit

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Sub-Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EG020F: Dissolved Metals by ICP-MS (QC Lot: 4098106) - continued									
ES2146547-018	Anonymous	EG020A-F: Nickel	7440-02-0	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-F: Zinc	7440-66-6	0.005	mg/L	0.006	0.006	0.0	No Limit
EG035F: Dissolved Mercury by FIMS (QC Lot: 4098107)									
ES2146547-010	Anonymous	EG035F: Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
ES2146547-018	Anonymous	EG035F: Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4100888)									
ES2146555-001	Anonymous	EP080: C6 - C9 Fraction	---	20	µg/L	<20	<20	0.0	No Limit
ES2146625-031	R03_20211217 Received as extra sample	EP080: C6 - C9 Fraction	---	20	µg/L	<20	<20	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4100888)									
ES2146555-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	<20	0.0	No Limit
ES2146625-031	R03_20211217 Received as extra sample	EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	<20	0.0	No Limit
EP080: BTEXN (QC Lot: 4100888)									
ES2146555-001	Anonymous	EP080: Benzene	71-43-2	1	µg/L	<1	<1	0.0	No Limit
		EP080: Toluene	108-88-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	2	µg/L	<2	<2	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	2	µg/L	<2	<2	0.0	No Limit
		EP080: Naphthalene	91-20-3	5	µg/L	<5	<5	0.0	No Limit
ES2146625-031	R03_20211217 Received as extra sample	EP080: Benzene	71-43-2	1	µg/L	<1	<1	0.0	No Limit
		EP080: Toluene	108-88-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	2	µg/L	<2	<2	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	2	µg/L	<2	<2	0.0	No Limit
		EP080: Naphthalene	91-20-3	5	µg/L	<5	<5	0.0	No Limit
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 4101407)									
ES2146625-031	R03_20211217 Received as extra sample	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4101407)									

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Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4101407) - continued									
ES2146625-031	R03_20211217 Received as extra sample	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	0.0	No Limit
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4101407)									
ES2146625-031	R03_20211217 Received as extra sample	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4101407)									
ES2146625-031	R03_20211217 Received as extra sample	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231P: PFAS Sums (QC Lot: 4101407)									
ES2146625-031	R03_20211217 Received as extra sample	EP231X: Sum of PFAS	---	0.01	µg/L	<0.01	<0.01	0.0	No Limit

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Method Blank (MB) and Laboratory Control Sample (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Sample (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

Sub-Matrix: **SOIL**

				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4099599)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	121.1 mg/kg	90.6	88.0	113
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	0.74 mg/kg	83.5	70.0	130
EG005T: Chromium	7440-47-3	2	mg/kg	<2	19.6 mg/kg	103	68.0	132
EG005T: Copper	7440-50-8	5	mg/kg	<5	52.9 mg/kg	102	89.0	111
EG005T: Lead	7439-92-1	5	mg/kg	<5	60.8 mg/kg	96.4	82.0	119
EG005T: Nickel	7440-02-0	2	mg/kg	<2	15.3 mg/kg	99.8	80.0	120
EG005T: Zinc	7440-66-6	5	mg/kg	<5	139.3 mg/kg	84.6	66.0	133
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4099602)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	121.1 mg/kg	94.2	88.0	113
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	0.74 mg/kg	82.6	70.0	130
EG005T: Chromium	7440-47-3	2	mg/kg	<2	19.6 mg/kg	99.2	68.0	132
EG005T: Copper	7440-50-8	5	mg/kg	<5	52.9 mg/kg	98.2	89.0	111
EG005T: Lead	7439-92-1	5	mg/kg	<5	60.8 mg/kg	92.6	82.0	119
EG005T: Nickel	7440-02-0	2	mg/kg	<2	15.3 mg/kg	91.8	80.0	120
EG005T: Zinc	7440-66-6	5	mg/kg	<5	139.3 mg/kg	84.8	66.0	133
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4099600)								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.087 mg/kg	86.2	70.0	125
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4099601)								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.087 mg/kg	98.3	70.0	125
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 4091331)								
EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	1 mg/kg	91.0	62.0	126
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 4092878)								
EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	1 mg/kg	86.1	62.0	126
EP068A: Organochlorine Pesticides (OC) (QCLot: 4091330)								
EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	0.5 mg/kg	95.1	69.0	113
EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	0.5 mg/kg	93.6	65.0	117
EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	0.5 mg/kg	100	67.0	119
EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	0.5 mg/kg	99.9	68.0	116
EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	97.2	65.0	117
EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	0.5 mg/kg	96.0	67.0	115
EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	0.5 mg/kg	101	69.0	115
EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	0.5 mg/kg	98.2	62.0	118
EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	0.5 mg/kg	97.0	63.0	117

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Sub-Matrix: **SOIL**

				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EP068A: Organochlorine Pesticides (OC) (QCLot: 4091330) - continued								
EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	0.5 mg/kg	99.3	66.0	116
EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	0.5 mg/kg	101	64.0	116
EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	0.5 mg/kg	97.6	66.0	116
EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	0.5 mg/kg	97.0	67.0	115
EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	0.5 mg/kg	90.3	67.0	123
EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	0.5 mg/kg	101	69.0	115
EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	0.5 mg/kg	97.2	69.0	121
EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	0.5 mg/kg	114	56.0	120
EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	0.5 mg/kg	109	62.0	124
EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	0.5 mg/kg	106	66.0	120
EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	0.5 mg/kg	107	64.0	122
EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	0.5 mg/kg	100	54.0	130
EP068A: Organochlorine Pesticides (OC) (QCLot: 4092877)								
EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	0.5 mg/kg	87.3	69.0	113
EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	0.5 mg/kg	82.7	65.0	117
EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	0.5 mg/kg	93.3	67.0	119
EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	0.5 mg/kg	91.4	68.0	116
EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	109	65.0	117
EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	0.5 mg/kg	91.6	67.0	115
EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	0.5 mg/kg	92.6	69.0	115
EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	0.5 mg/kg	90.4	62.0	118
EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	0.5 mg/kg	93.0	63.0	117
EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	0.5 mg/kg	95.2	66.0	116
EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	0.5 mg/kg	86.4	64.0	116
EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	0.5 mg/kg	97.9	66.0	116
EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	0.5 mg/kg	96.0	67.0	115
EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	0.5 mg/kg	100	67.0	123
EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	0.5 mg/kg	97.7	69.0	115
EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	0.5 mg/kg	98.0	69.0	121
EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	0.5 mg/kg	92.8	56.0	120
EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	0.5 mg/kg	92.1	62.0	124
EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	0.5 mg/kg	91.4	66.0	120
EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	0.5 mg/kg	81.3	64.0	122
EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	0.5 mg/kg	89.4	54.0	130
EP068B: Organophosphorus Pesticides (OP) (QCLot: 4091330)								
EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	0.5 mg/kg	72.2	59.0	119
EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	89.2	62.0	128
EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	0.5 mg/kg	57.5	54.0	126
EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	0.5 mg/kg	81.6	67.0	119

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Sub-Matrix: **SOIL**

				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EP068B: Organophosphorus Pesticides (OP) (QCLot: 4091330) - continued								
EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	0.5 mg/kg	100	70.0	120
EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	0.5 mg/kg	95.2	72.0	120
EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	0.5 mg/kg	83.0	68.0	120
EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	0.5 mg/kg	91.2	68.0	122
EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	0.5 mg/kg	98.2	69.0	117
EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	0.5 mg/kg	95.6	76.0	118
EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	0.5 mg/kg	86.7	64.0	122
EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	0.5 mg/kg	99.4	70.0	116
EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	0.5 mg/kg	103	69.0	121
EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	0.5 mg/kg	91.8	66.0	118
EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	0.5 mg/kg	82.0	68.0	124
EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	0.5 mg/kg	95.6	62.0	112
EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	0.5 mg/kg	95.9	68.0	120
EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	0.5 mg/kg	83.1	65.0	127
EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	0.5 mg/kg	80.7	41.0	123
EP068B: Organophosphorus Pesticides (OP) (QCLot: 4092877)								
EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	0.5 mg/kg	71.4	59.0	119
EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	101	62.0	128
EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	0.5 mg/kg	73.5	54.0	126
EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	0.5 mg/kg	86.1	67.0	119
EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	0.5 mg/kg	99.9	70.0	120
EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	0.5 mg/kg	89.9	72.0	120
EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	0.5 mg/kg	87.0	68.0	120
EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	0.5 mg/kg	95.1	68.0	122
EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	0.5 mg/kg	89.8	69.0	117
EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	0.5 mg/kg	94.7	76.0	118
EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	0.5 mg/kg	91.7	64.0	122
EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	0.5 mg/kg	88.8	70.0	116
EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	0.5 mg/kg	95.9	69.0	121
EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	0.5 mg/kg	86.3	66.0	118
EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	0.5 mg/kg	86.9	68.0	124
EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	0.5 mg/kg	91.0	62.0	112
EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	0.5 mg/kg	94.2	68.0	120
EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	0.5 mg/kg	82.5	65.0	127
EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	0.5 mg/kg	73.6	41.0	123
EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 4096910)								
EP074: Benzene	71-43-2	0.2	mg/kg	<0.2	1 mg/kg	103	71.0	121
EP074: Toluene	108-88-3	0.5	mg/kg	<0.5	1 mg/kg	103	65.0	131
EP074: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	1 mg/kg	109	72.0	114

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Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report		
				Result	Spike Concentration	Spike Recovery (%)	Acceptable Limits (%)
						LCS	Low	High
EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 4096910) - continued								
EP074: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	2 mg/kg	113	70.0	116
EP074: Styrene	100-42-5	0.5	mg/kg	<0.5	1 mg/kg	111	67.0	113
EP074: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	1 mg/kg	112	75.0	115
EP074: Isopropylbenzene	98-82-8	0.5	mg/kg	<0.5	1 mg/kg	112	65.0	117
EP074: n-Propylbenzene	103-65-1	0.5	mg/kg	<0.5	1 mg/kg	104	66.0	122
EP074: 1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	<0.5	1 mg/kg	104	68.0	118
EP074: sec-Butylbenzene	135-98-8	0.5	mg/kg	<0.5	1 mg/kg	107	69.0	119
EP074: 1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	<0.5	1 mg/kg	105	69.0	117
EP074: tert-Butylbenzene	98-06-6	0.5	mg/kg	<0.5	1 mg/kg	102	69.0	115
EP074: p-Isopropyltoluene	99-87-6	0.5	mg/kg	<0.5	1 mg/kg	110	66.0	118
EP074: n-Butylbenzene	104-51-8	0.5	mg/kg	<0.5	1 mg/kg	113	59.0	125
EP074B: Oxygenated Compounds (QCLot: 4096910)								
EP074: Vinyl Acetate	108-05-4	5	mg/kg	<5	10 mg/kg	115	29.6	156
EP074: 2-Butanone (MEK)	78-93-3	5	mg/kg	<5	10 mg/kg	107	58.0	136
EP074: 4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	<5	10 mg/kg	110	62.0	132
EP074: 2-Hexanone (MBK)	591-78-6	5	mg/kg	<5	10 mg/kg	110	54.0	136
EP074C: Sulfonated Compounds (QCLot: 4096910)								
EP074: Carbon disulfide	75-15-0	0.5	mg/kg	<0.5	1 mg/kg	117	54.0	126
EP074D: Fumigants (QCLot: 4096910)								
EP074: 2.2-Dichloropropane	594-20-7	0.5	mg/kg	<0.5	1 mg/kg	120	60.0	126
EP074: 1.2-Dichloropropane	78-87-5	0.5	mg/kg	<0.5	1 mg/kg	100	68.0	124
EP074: cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	<0.5	1 mg/kg	104	51.0	119
EP074: trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	<0.5	1 mg/kg	111	52.0	114
EP074: 1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	<0.5	1 mg/kg	99.2	63.0	115
EP074E: Halogenated Aliphatic Compounds (QCLot: 4096910)								
EP074: Dichlorodifluoromethane	75-71-8	5	mg/kg	<5	10 mg/kg	90.7	30.0	148
EP074: Chloromethane	74-87-3	5	mg/kg	<5	10 mg/kg	119	41.0	141
EP074: Vinyl chloride	75-01-4	5	mg/kg	<5	10 mg/kg	122	43.0	147
EP074: Bromomethane	74-83-9	5	mg/kg	<5	10 mg/kg	106	47.0	141
EP074: Chloroethane	75-00-3	5	mg/kg	<5	10 mg/kg	124	49.0	143
EP074: Trichlorofluoromethane	75-69-4	5	mg/kg	<5	10 mg/kg	120	49.0	135
EP074: 1.1-Dichloroethene	75-35-4	0.5	mg/kg	<0.5	1 mg/kg	117	54.0	126
EP074: Iodomethane	74-88-4	0.5	mg/kg	<0.5	1 mg/kg	99.4	43.0	129
EP074: trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	<0.5	1 mg/kg	117	64.0	120
EP074: 1.1-Dichloroethane	75-34-3	0.5	mg/kg	<0.5	1 mg/kg	111	67.0	125
EP074: cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	<0.5	1 mg/kg	114	69.0	121
EP074: 1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	<0.5	1 mg/kg	110	65.0	117

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Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report		
				Result	Spike Concentration	Spike Recovery (%)	Acceptable Limits (%)
						LCS	Low	High
EP074E: Halogenated Aliphatic Compounds (QCLot: 4096910) - continued								
EP074: 1.1-Dichloropropylene	563-58-6	0.5	mg/kg	<0.5	1 mg/kg	104	65.0	123
EP074: Carbon Tetrachloride	56-23-5	0.5	mg/kg	<0.5	1 mg/kg	107	59.0	125
EP074: 1.2-Dichloroethane	107-06-2	0.5	mg/kg	<0.5	1 mg/kg	112	65.0	125
EP074: Trichloroethene	79-01-6	0.5	mg/kg	<0.5	1 mg/kg	104	70.0	118
EP074: Dibromomethane	74-95-3	0.5	mg/kg	<0.5	1 mg/kg	112	68.0	118
EP074: 1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	<0.5	1 mg/kg	100.0	64.0	126
EP074: 1.3-Dichloropropane	142-28-9	0.5	mg/kg	<0.5	1 mg/kg	98.4	68.0	122
EP074: Tetrachloroethene	127-18-4	0.5	mg/kg	<0.5	1 mg/kg	93.1	67.0	143
EP074: 1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	<0.5	1 mg/kg	96.2	62.0	122
EP074: trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	<0.5	1 mg/kg	117	54.0	128
EP074: cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	<0.5	1 mg/kg	116	55.0	129
EP074: 1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	<0.5	1 mg/kg	109	65.0	121
EP074: 1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	<0.5	1 mg/kg	108	61.0	125
EP074: Pentachloroethane	76-01-7	0.5	mg/kg	<0.5	1 mg/kg	113	19.8	134
EP074: 1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	<0.5	1 mg/kg	98.4	53.0	129
EP074: Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	1 mg/kg	124	50.0	128
EP074F: Halogenated Aromatic Compounds (QCLot: 4096910)								
EP074: Chlorobenzene	108-90-7	0.5	mg/kg	<0.5	1 mg/kg	106	68.0	116
EP074: Bromobenzene	108-86-1	0.5	mg/kg	<0.5	1 mg/kg	102	70.0	114
EP074: 2-Chlorotoluene	95-49-8	0.5	mg/kg	<0.5	1 mg/kg	105	68.0	122
EP074: 4-Chlorotoluene	106-43-4	0.5	mg/kg	<0.5	1 mg/kg	108	67.0	123
EP074: 1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	1 mg/kg	109	70.0	116
EP074: 1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	1 mg/kg	112	67.0	117
EP074: 1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	1 mg/kg	105	70.0	114
EP074: 1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	1 mg/kg	121	48.0	122
EP074: 1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	<0.5	1 mg/kg	118	52.0	122
EP074G: Trihalomethanes (QCLot: 4096910)								
EP074: Chloroform	67-66-3	0.5	mg/kg	<0.5	1 mg/kg	114	66.0	124
EP074: Bromodichloromethane	75-27-4	0.5	mg/kg	<0.5	1 mg/kg	103	61.0	121
EP074: Dibromochloromethane	124-48-1	0.5	mg/kg	<0.5	1 mg/kg	96.0	63.0	121
EP074: Bromoform	75-25-2	0.5	mg/kg	<0.5	1 mg/kg	101	60.0	126
EP074H: Naphthalene (QCLot: 4096910)								
EP074: Naphthalene	91-20-3	1	mg/kg	<1	1 mg/kg	117	67.0	129
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 4091329)								
EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	6 mg/kg	109	77.0	125
EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	6 mg/kg	101	72.0	124
EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	6 mg/kg	104	73.0	127
EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	6 mg/kg	108	72.0	126

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Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 4091329) - continued								
EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	6 mg/kg	107	75.0	127
EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	6 mg/kg	103	77.0	127
EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	6 mg/kg	111	73.0	127
EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	6 mg/kg	109	74.0	128
EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	6 mg/kg	102	69.0	123
EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	6 mg/kg	106	75.0	127
EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	6 mg/kg	97.6	68.0	116
EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	6 mg/kg	103	74.0	126
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	6 mg/kg	92.2	70.0	126
EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	6 mg/kg	98.8	61.0	121
EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	6 mg/kg	99.6	62.0	118
EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	6 mg/kg	93.8	63.0	121
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 4092873)								
EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	6 mg/kg	106	77.0	125
EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	6 mg/kg	106	72.0	124
EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	6 mg/kg	102	73.0	127
EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	6 mg/kg	112	72.0	126
EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	6 mg/kg	112	75.0	127
EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	6 mg/kg	102	77.0	127
EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	6 mg/kg	115	73.0	127
EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	6 mg/kg	111	74.0	128
EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	6 mg/kg	111	69.0	123
EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	6 mg/kg	109	75.0	127
EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	6 mg/kg	108	68.0	116
EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	6 mg/kg	107	74.0	126
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	6 mg/kg	98.1	70.0	126
EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	6 mg/kg	101	61.0	121
EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	6 mg/kg	98.0	62.0	118
EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	6 mg/kg	102	63.0	121
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4091328)								
EP071: C10 - C14 Fraction	---	50	mg/kg	<50	300 mg/kg	111	75.0	129
EP071: C15 - C28 Fraction	---	100	mg/kg	<100	450 mg/kg	98.6	77.0	131
EP071: C29 - C36 Fraction	---	100	mg/kg	<100	300 mg/kg	109	71.0	129
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4092876)								
EP071: C10 - C14 Fraction	---	50	mg/kg	<50	300 mg/kg	100	75.0	129
EP071: C15 - C28 Fraction	---	100	mg/kg	<100	450 mg/kg	99.2	77.0	131

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Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report		
					Spike	Spike Recovery (%)	Acceptable Limits (%)
				Result	Concentration	LCS	Low	High
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4092876) - continued								
EP071: C29 - C36 Fraction	----	100	mg/kg	<100	300 mg/kg	102	71.0	129
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4096909)								
EP080: C6 - C9 Fraction	----	10	mg/kg	<10	26 mg/kg	99.1	68.4	128
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4097205)								
EP080: C6 - C9 Fraction	----	10	mg/kg	<10	26 mg/kg	78.1	68.4	128
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4097220)								
EP080: C6 - C9 Fraction	----	10	mg/kg	<10	26 mg/kg	77.3	68.4	128
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4091328)								
EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	375 mg/kg	107	77.0	125
EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	525 mg/kg	99.9	74.0	138
EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	225 mg/kg	119	63.0	131
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4092876)								
EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	375 mg/kg	103	77.0	125
EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	525 mg/kg	98.2	74.0	138
EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	225 mg/kg	107	63.0	131
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4096909)								
EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	31 mg/kg	101	68.4	128
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4097205)								
EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	31 mg/kg	76.6	68.4	128
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4097220)								
EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	31 mg/kg	78.1	68.4	128
EP080: BTEXN (QCLot: 4096909)								
EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	1 mg/kg	94.5	62.0	116
EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	1 mg/kg	98.9	67.0	121
EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	1 mg/kg	101	65.0	117
EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	2 mg/kg	99.9	66.0	118
EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	1 mg/kg	102	68.0	120
EP080: Naphthalene	91-20-3	1	mg/kg	<1	1 mg/kg	102	63.0	119
EP080: BTEXN (QCLot: 4097205)								
EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	1 mg/kg	102	62.0	116
EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	1 mg/kg	95.7	67.0	121
EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	1 mg/kg	93.8	65.0	117
EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	2 mg/kg	96.1	66.0	118
EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	1 mg/kg	93.7	68.0	120
EP080: Naphthalene	91-20-3	1	mg/kg	<1	1 mg/kg	92.5	63.0	119

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Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report		
				Result	Spike Concentration	Spike Recovery (%)	Acceptable Limits (%)
						LCS	Low	High
EP080: BTEXN (QCLot: 4097220)								
EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	1 mg/kg	86.6	62.0	116
EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	1 mg/kg	90.5	67.0	121
EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	1 mg/kg	85.8	65.0	117
EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	2 mg/kg	85.2	66.0	118
EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	1 mg/kg	87.3	68.0	120
EP080: Naphthalene	91-20-3	1	mg/kg	<1	1 mg/kg	99.1	63.0	119
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4102556)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	0.00125 mg/kg	116	72.0	128
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	108	73.0	123
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	106	67.0	130
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	104	70.0	132
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	92.8	68.0	136
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	0.00125 mg/kg	112	59.0	134
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4102556)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	0.00625 mg/kg	87.8	71.0	135
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	0.00125 mg/kg	94.8	69.0	132
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	122	70.0	132
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	119	71.0	131
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	116	69.0	133
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	119	72.0	129
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	0.00125 mg/kg	111	69.0	133
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	115	64.0	136
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	107	69.0	135
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	98.4	66.0	139
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	102	69.0	133
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4102556)								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	110	67.0	137
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	0.00312 mg/kg	108	71.6	129
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	111	69.8	131
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	108	68.7	130
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	102	65.1	134
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	116	63.0	144
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	115	61.0	139
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4102556)								

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Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4102556) - continued								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	0.00125 mg/kg	117	62.0	145
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	0.00125 mg/kg	115	64.0	140
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	0.00125 mg/kg	112	65.0	137
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	0.00125 mg/kg	100	69.2	143

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EG020F: Dissolved Metals by ICP-MS (QCLot: 4098106)								
EG020A-F: Arsenic	7440-38-2	0.001	mg/L	<0.001	0.1 mg/L	92.9	85.0	114
EG020A-F: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	0.1 mg/L	90.5	84.0	110
EG020A-F: Chromium	7440-47-3	0.001	mg/L	<0.001	0.1 mg/L	91.8	85.0	111
EG020A-F: Copper	7440-50-8	0.001	mg/L	<0.001	0.1 mg/L	90.9	81.0	111
EG020A-F: Lead	7439-92-1	0.001	mg/L	<0.001	0.1 mg/L	92.1	83.0	111
EG020A-F: Nickel	7440-02-0	0.001	mg/L	<0.001	0.1 mg/L	90.9	82.0	112
EG020A-F: Zinc	7440-66-6	0.005	mg/L	<0.005	0.1 mg/L	90.8	81.0	117
EG035F: Dissolved Mercury by FIMS (QCLot: 4098107)								
EG035F: Mercury	7439-97-6	0.0001	mg/L	<0.0001	0.01 mg/L	95.3	83.0	105
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4090166)								
EP071: C10 - C14 Fraction	----	50	µg/L	<50	400 µg/L	68.6	55.8	112
EP071: C15 - C28 Fraction	----	100	µg/L	<100	600 µg/L	74.9	71.6	113
EP071: C29 - C36 Fraction	----	50	µg/L	<50	400 µg/L	72.7	56.0	121
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4100888)								
EP080: C6 - C9 Fraction	----	20	µg/L	<20	260 µg/L	93.6	75.0	127
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4090166)								
EP071: >C10 - C16 Fraction	----	100	µg/L	<100	500 µg/L	74.5	57.9	119
EP071: >C16 - C34 Fraction	----	100	µg/L	<100	700 µg/L	89.6	62.5	110
EP071: >C34 - C40 Fraction	----	100	µg/L	<100	300 µg/L	83.5	61.5	121
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4100888)								
EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	310 µg/L	97.7	75.0	127
EP080: BTEXN (QCLot: 4100888)								
EP080: Benzene	71-43-2	1	µg/L	<1	10 µg/L	93.3	70.0	122
EP080: Toluene	108-88-3	2	µg/L	<2	10 µg/L	96.2	69.0	123
EP080: Ethylbenzene	100-41-4	2	µg/L	<2	10 µg/L	98.5	70.0	120
EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	10 µg/L	105	69.0	121
EP080: ortho-Xylene	95-47-6	2	µg/L	<2	10 µg/L	102	72.0	122
EP080: Naphthalene	91-20-3	5	µg/L	<5	10 µg/L	94.1	70.0	120

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Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report		
				Result	Spike Concentration	Spike Recovery (%)	Acceptable Limits (%)
						LCS	Low	High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4101407)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	0.25 µg/L	122	72.0	130
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	0.25 µg/L	123	71.0	127
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.25 µg/L	118	68.0	131
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	0.25 µg/L	118	69.0	134
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.25 µg/L	95.0	65.0	140
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	0.25 µg/L	101	53.0	142
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4101407)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	1.25 µg/L	110	73.0	129
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	0.25 µg/L	123	72.0	129
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.25 µg/L	126	72.0	129
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	0.25 µg/L	115	72.0	130
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	0.25 µg/L	131	71.0	133
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	0.25 µg/L	124	69.0	130
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	0.25 µg/L	126	71.0	129
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	0.25 µg/L	125	69.0	133
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	0.25 µg/L	120	72.0	134
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	0.25 µg/L	120	65.0	144
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	0.625 µg/L	92.8	71.0	132
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4101407)								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	0.25 µg/L	117	67.0	137
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	0.625 µg/L	126	68.0	141
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	0.625 µg/L	122	62.6	147
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	0.625 µg/L	107	66.0	145
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	0.625 µg/L	101	57.6	145
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	0.25 µg/L	128	65.0	136
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.25 µg/L	118	61.0	135
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4101407)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.25 µg/L	128	63.0	143
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	0.25 µg/L	121	64.0	140
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	0.25 µg/L	123	67.0	138
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	0.25 µg/L	106	71.4	144

Matrix Spike (MS) Report

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The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

Sub-Matrix: **SOIL**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4099599)							
ES2146505-001	Anonymous	EG005T: Arsenic	7440-38-2	50 mg/kg	100	70.0	130
		EG005T: Cadmium	7440-43-9	50 mg/kg	105	70.0	130
		EG005T: Chromium	7440-47-3	50 mg/kg	102	68.0	132
		EG005T: Copper	7440-50-8	250 mg/kg	104	70.0	130
		EG005T: Lead	7439-92-1	250 mg/kg	105	70.0	130
		EG005T: Nickel	7440-02-0	50 mg/kg	104	70.0	130
		EG005T: Zinc	7440-66-6	250 mg/kg	103	66.0	133
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4099602)							
ES2146625-007	BUR_BH108_2.0	EG005T: Arsenic	7440-38-2	50 mg/kg	98.6	70.0	130
		EG005T: Cadmium	7440-43-9	50 mg/kg	102	70.0	130
		EG005T: Chromium	7440-47-3	50 mg/kg	99.0	68.0	132
		EG005T: Copper	7440-50-8	250 mg/kg	99.0	70.0	130
		EG005T: Lead	7439-92-1	250 mg/kg	102	70.0	130
		EG005T: Nickel	7440-02-0	50 mg/kg	101	70.0	130
		EG005T: Zinc	7440-66-6	250 mg/kg	101	66.0	133
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4099600)							
ES2146505-001	Anonymous	EG035T: Mercury	7439-97-6	5 mg/kg	103	70.0	130
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4099601)							
ES2146625-007	BUR_BH108_2.0	EG035T: Mercury	7439-97-6	5 mg/kg	99.5	70.0	130
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 4091331)							
ES2146625-001	D03_20211217	EP066: Total Polychlorinated biphenyls	----	1 mg/kg	83.8	70.0	130
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 4092878)							
ES2146549-001	Anonymous	EP066: Total Polychlorinated biphenyls	----	1 mg/kg	104	70.0	130
EP068A: Organochlorine Pesticides (OC) (QCLot: 4091330)							
ES2146625-001	D03_20211217	EP068: gamma-BHC	58-89-9	0.5 mg/kg	86.8	70.0	130
		EP068: Heptachlor	76-44-8	0.5 mg/kg	73.8	70.0	130
		EP068: Aldrin	309-00-2	0.5 mg/kg	119	70.0	130
		EP068: Dieldrin	60-57-1	0.5 mg/kg	100	70.0	130
		EP068: Endrin	72-20-8	2 mg/kg	91.0	70.0	130
		EP068: 4.4`-DDT	50-29-3	2 mg/kg	85.0	70.0	130
EP068A: Organochlorine Pesticides (OC) (QCLot: 4092877)							
ES2146549-001	Anonymous	EP068: gamma-BHC	58-89-9	0.5 mg/kg	91.9	70.0	130
		EP068: Heptachlor	76-44-8	0.5 mg/kg	85.6	70.0	130
		EP068: Aldrin	309-00-2	0.5 mg/kg	89.2	70.0	130
		EP068: Dieldrin	60-57-1	0.5 mg/kg	103	70.0	130

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Sub-Matrix: **SOIL**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP068A: Organochlorine Pesticides (OC) (QCLot: 4092877) - continued							
ES2146549-001	Anonymous	EP068: Endrin	72-20-8	2 mg/kg	94.0	70.0	130
		EP068: 4.4`-DDT	50-29-3	2 mg/kg	91.9	70.0	130
EP068B: Organophosphorus Pesticides (OP) (QCLot: 4091330)							
ES2146625-001	D03_20211217	EP068: Diazinon	333-41-5	0.5 mg/kg	86.3	70.0	130
		EP068: Chlorpyrifos-methyl	5598-13-0	0.5 mg/kg	70.0	70.0	130
		EP068: Pirimphos-ethyl	23505-41-1	0.5 mg/kg	106	70.0	130
		EP068: Bromophos-ethyl	4824-78-6	0.5 mg/kg	80.8	70.0	130
		EP068: Prothiofos	34643-46-4	0.5 mg/kg	84.8	70.0	130
EP068B: Organophosphorus Pesticides (OP) (QCLot: 4092877)							
ES2146549-001	Anonymous	EP068: Diazinon	333-41-5	0.5 mg/kg	96.2	70.0	130
		EP068: Chlorpyrifos-methyl	5598-13-0	0.5 mg/kg	110	70.0	130
		EP068: Pirimphos-ethyl	23505-41-1	0.5 mg/kg	100	70.0	130
		EP068: Bromophos-ethyl	4824-78-6	0.5 mg/kg	96.8	70.0	130
		EP068: Prothiofos	34643-46-4	0.5 mg/kg	85.8	70.0	130
EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 4096910)							
ES2146615-002	Anonymous	EP074: Benzene	71-43-2	2.5 mg/kg	87.8	70.0	130
		EP074: Toluene	108-88-3	2.5 mg/kg	93.8	70.0	130
EP074E: Halogenated Aliphatic Compounds (QCLot: 4096910)							
ES2146615-002	Anonymous	EP074: 1.1-Dichloroethene	75-35-4	2.5 mg/kg	71.4	70.0	130
		EP074: Trichloroethene	79-01-6	2.5 mg/kg	82.0	70.0	130
EP074F: Halogenated Aromatic Compounds (QCLot: 4096910)							
ES2146615-002	Anonymous	EP074: Chlorobenzene	108-90-7	2.5 mg/kg	99.7	70.0	130
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 4091329)							
ES2146625-001	D03_20211217	EP075(SIM): Acenaphthene	83-32-9	10 mg/kg	98.1	70.0	130
		EP075(SIM): Pyrene	129-00-0	10 mg/kg	103	70.0	130
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 4092873)							
ES2146549-001	Anonymous	EP075(SIM): Acenaphthene	83-32-9	10 mg/kg	96.7	70.0	130
		EP075(SIM): Pyrene	129-00-0	10 mg/kg	110	70.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4091328)							
ES2146625-001	D03_20211217	EP071: C10 - C14 Fraction	----	480 mg/kg	98.0	73.0	137
		EP071: C15 - C28 Fraction	----	3100 mg/kg	101	53.0	131
		EP071: C29 - C36 Fraction	---	2060 mg/kg	106	52.0	132
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4092876)							
ES2146549-001	Anonymous	EP071: C10 - C14 Fraction	---	480 mg/kg	92.4	73.0	137
		EP071: C15 - C28 Fraction	---	3100 mg/kg	101	53.0	131
		EP071: C29 - C36 Fraction	---	2060 mg/kg	106	52.0	132

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Sub-Matrix: **SOIL**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4096909)							
ES2146615-002	Anonymous	EP080: C6 - C9 Fraction	----	32.5 mg/kg	97.6	70.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4097205)							
ES2146459-004	Anonymous	EP080: C6 - C9 Fraction	----	32.5 mg/kg	80.8	70.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4097220)							
ES2146346-034	Anonymous	EP080: C6 - C9 Fraction	----	32.5 mg/kg	91.0	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4091328)							
ES2146625-001	D03_20211217	EP071: >C10 - C16 Fraction	----	860 mg/kg	101	73.0	137
		EP071: >C16 - C34 Fraction	----	4320 mg/kg	102	53.0	131
		EP071: >C34 - C40 Fraction	----	890 mg/kg	93.4	52.0	132
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4092876)							
ES2146549-001	Anonymous	EP071: >C10 - C16 Fraction	----	860 mg/kg	95.7	73.0	137
		EP071: >C16 - C34 Fraction	----	4320 mg/kg	104	53.0	131
		EP071: >C34 - C40 Fraction	----	890 mg/kg	102	52.0	132
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4096909)							
ES2146615-002	Anonymous	EP080: C6 - C10 Fraction	C6_C10	37.5 mg/kg	98.7	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4097205)							
ES2146459-004	Anonymous	EP080: C6 - C10 Fraction	C6_C10	37.5 mg/kg	77.6	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4097220)							
ES2146346-034	Anonymous	EP080: C6 - C10 Fraction	C6_C10	37.5 mg/kg	84.1	70.0	130
EP080: BTEXN (QCLot: 4096909)							
ES2146615-002	Anonymous	EP080: Benzene	71-43-2	2.5 mg/kg	85.5	70.0	130
		EP080: Toluene	108-88-3	2.5 mg/kg	86.5	70.0	130
		EP080: Ethylbenzene	100-41-4	2.5 mg/kg	90.8	70.0	130
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2.5 mg/kg	91.1	70.0	130
		EP080: ortho-Xylene	95-47-6	2.5 mg/kg	93.8	70.0	130
		EP080: Naphthalene	91-20-3	2.5 mg/kg	87.7	70.0	130
EP080: BTEXN (QCLot: 4097205)							
ES2146459-004	Anonymous	EP080: Benzene	71-43-2	2.5 mg/kg	88.5	70.0	130
		EP080: Toluene	108-88-3	2.5 mg/kg	88.6	70.0	130
		EP080: Ethylbenzene	100-41-4	2.5 mg/kg	87.8	70.0	130
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2.5 mg/kg	84.2	70.0	130
		EP080: ortho-Xylene	95-47-6	2.5 mg/kg	87.8	70.0	130
		EP080: Naphthalene	91-20-3	2.5 mg/kg	84.5	70.0	130
EP080: BTEXN (QCLot: 4097220)							

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Sub-Matrix: **SOIL**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP080: BTEXN (QCLot: 4097220) - continued							
ES2146346-034	Anonymous	EP080: Benzene	71-43-2	2.5 mg/kg	91.2	70.0	130
		EP080: Toluene	108-88-3	2.5 mg/kg	86.4	70.0	130
		EP080: Ethylbenzene	100-41-4	2.5 mg/kg	88.2	70.0	130
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2.5 mg/kg	81.6	70.0	130
		EP080: ortho-Xylene	95-47-6	2.5 mg/kg	91.9	70.0	130
		EP080: Naphthalene	91-20-3	2.5 mg/kg	82.4	70.0	130
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4102556)							
ES2146459-001	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.00125 mg/kg	123	72.0	128
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00125 mg/kg	118	73.0	123
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.00125 mg/kg	114	67.0	130
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00125 mg/kg	109	70.0	132
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.00125 mg/kg	99.6	68.0	136
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.00125 mg/kg	116	59.0	134
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4102556)							
ES2146459-001	Anonymous	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.00625 mg/kg	94.0	71.0	135
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.00125 mg/kg	98.0	69.0	132
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.00125 mg/kg	125	70.0	132
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.00125 mg/kg	126	71.0	131
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.00125 mg/kg	113	69.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.00125 mg/kg	121	72.0	129
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.00125 mg/kg	122	69.0	133
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.00125 mg/kg	126	64.0	136
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.00125 mg/kg	108	69.0	135
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.00125 mg/kg	108	66.0	139
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.00312 mg/kg	114	69.0	133
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4102556)							
ES2146459-001	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.00125 mg/kg	118	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.00312 mg/kg	124	71.6	129
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.00312 mg/kg	113	69.8	131
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.00312 mg/kg	118	68.7	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.00312 mg/kg	118	65.1	134
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.00125 mg/kg	123	63.0	144
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.00125 mg/kg	128	61.0	139

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Sub-Matrix: **SOIL**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	SpikeRecovery(%): MS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4102556)							
ES2146459-001	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.00125 mg/kg	117	62.0	145
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.00125 mg/kg	122	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.00125 mg/kg	115	65.0	137
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.00125 mg/kg	102	69.2	143

Sub-Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	SpikeRecovery(%): MS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EG020F: Dissolved Metals by ICP-MS (QCLot: 4098106)							
ES2146547-008	Anonymous	EG020A-F: Arsenic	7440-38-2	1 mg/L	94.5	70.0	130
		EG020A-F: Cadmium	7440-43-9	0.25 mg/L	91.0	70.0	130
		EG020A-F: Chromium	7440-47-3	1 mg/L	92.3	70.0	130
		EG020A-F: Copper	7440-50-8	1 mg/L	93.0	70.0	130
		EG020A-F: Lead	7439-92-1	1 mg/L	85.6	70.0	130
		EG020A-F: Nickel	7440-02-0	1 mg/L	91.7	70.0	130
		EG020A-F: Zinc	7440-66-6	1 mg/L	93.6	70.0	130
EG035F: Dissolved Mercury by FIMS (QCLot: 4098107)							
ES2146547-009	Anonymous	EG035F: Mercury	7439-97-6	0.01 mg/L	88.9	70.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4100888)							
ES2146555-001	Anonymous	EP080: C6 - C9 Fraction	----	325 µg/L	81.4	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4100888)							
ES2146555-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	375 µg/L	80.5	70.0	130
EP080: BTEXN (QCLot: 4100888)							
ES2146555-001	Anonymous	EP080: Benzene	71-43-2	25 µg/L	73.5	70.0	130
		EP080: Toluene	108-88-3	25 µg/L	73.4	70.0	130
		EP080: Ethylbenzene	100-41-4	25 µg/L	78.0	70.0	130
		EP080: meta- & para-Xylene	108-38-3 106-42-3	25 µg/L	75.3	70.0	130
		EP080: ortho-Xylene	95-47-6	25 µg/L	77.1	70.0	130
		EP080: Naphthalene	91-20-3	25 µg/L	77.6	70.0	130
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4101407)							
ES2146625-031	R03_20211217 Received as extra sample	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.25 µg/L	127	72.0	130
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.25 µg/L	119	71.0	127
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.25 µg/L	119	68.0	131
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.25 µg/L	117	69.0	134
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.25 µg/L	94.2	65.0	140
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.25 µg/L	106	53.0	142

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Sub-Matrix: **WATER**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4101407)							
ES2146625-031	R03_20211217 Received as extra sample	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	1.25 µg/L	106	73.0	129
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.25 µg/L	117	72.0	129
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.25 µg/L	124	72.0	129
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.25 µg/L	126	72.0	130
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.25 µg/L	126	71.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.25 µg/L	117	69.0	130
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.25 µg/L	123	71.0	129
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.25 µg/L	122	69.0	133
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.25 µg/L	111	72.0	134
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.25 µg/L	119	65.0	144
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.625 µg/L	90.1	71.0	132
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4101407)							
ES2146625-031	R03_20211217 Received as extra sample	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.25 µg/L	113	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.625 µg/L	122	68.0	141
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.625 µg/L	122	62.6	147
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.625 µg/L	103	66.0	145
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.625 µg/L	100	57.6	145
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.25 µg/L	123	65.0	136
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.25 µg/L	114	61.0	135
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4101407)							
ES2146625-031	R03_20211217 Received as extra sample	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.25 µg/L	127	63.0	143
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.25 µg/L	127	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.25 µg/L	130	67.0	138
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.25 µg/L	115	71.4	144

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ALS Environmental

QA/QC Compliance Assessment to assist with Quality Review

Work Order	: **ES2146625**	Page	: 1 of 16
Amendment	: **1**		
Client	: **ENVIRONMENTAL RESOURCES MANAGEMENT (ERM)**	Laboratory	: Environmental Division Sydney
Contact	: MS JESSICA LAWRENCE	Telephone	: +61-2-8784 8555
Project	: 0577577-Burwood	Date Samples Received	: 20-Dec-2021
Site	: ----	Issue Date	: 02-Feb-2022
Sampler	: TRISTAN RODRIGUES	No. of samples received	: 31
Order number	: ----	No. of samples analysed	: 27

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers : Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- **NO Method Blank value outliers occur.**
- **NO Duplicate outliers occur.**
- **NO Laboratory Control outliers occur.**
- **NO Matrix Spike outliers occur.**
- **For all regular sample matrices, NO surrogate recovery outliers occur.**

Outliers : Analysis Holding Time Compliance

- **NO Analysis Holding Time Outliers exist.**

Outliers : Frequency of Quality Control Samples

- **Quality Control Sample Frequency Outliers exist - please see following pages for full details.**

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Outliers : Frequency of Quality Control Samples

Matrix: **WATER**

Quality Control Sample Type / Method	Count QC	Count Regular	Rate (%) Actual	Rate (%) Expected	Quality Control Specification
Laboratory Duplicates (DUP)					
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	1	19	5.26	10.00	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	0	19	0.00	10.00	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)					
TRH - Semivolatile Fraction	0	19	0.00	5.00	NEPM 2013 B3 & ALS QC Standard

Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for ***VOC in soils*** vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)		Sample Date	Extraction / Preparation: Date extracted	Due for extraction	Evaluation	Analysis: Date analysed	Due for analysis	Evaluation
EA055: Moisture Content (Dried @ 105-110°C)								
Soil Glass Jar - Unpreserved (EA055)								
D03_20211217,	BUR_BH120_0.2,	**17-Dec-2021**	**----**	----	----	**24-Dec-2021**	31-Dec-2021	✓
BUR_BH120_0.5,	BUR_BH108_0.2,							
D04_20211217,	BUR_BH108_0.5,							
BUR_BH108_2.0,	BUR_BH108_5.8,							
BUR_BH108_11.0,	BUR_BH108_20.0,							
BUR_BH108_17.0,	BUR_BH106_0.2,							
BUR_BH106_1.0,	BUR_BH106_2.0,							
BUR_BH106_3.0,	BUR_BH106_4.0,							
BUR_BH106_5.0,	D02_20211217,							
BUR_BH107_0.2,	BUR_BH107_1.0,							
BUR_BH107_3.0,	BUR_BH107_5.0							
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Snap Lock Bag - Friable Asbestos/PSD Bag (EA200)								
BUR_BH102_0.15 - Received as extra sample		**16-Dec-2021**	**----**	----	----	**22-Dec-2021**	14-Jun-2022	✓
Snap Lock Bag - Friable Asbestos/PSD Bag (EA200)								
BUR_BH106_0.2,	BUR_BH107_0.2	**17-Dec-2021**	**—**	-—	-—	**22-Dec-2021**	15-Jun-2022	✓

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Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)		Sample Date	Extraction / Preparation			Analysis		
			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EG005(ED093)T: Total Metals by ICP-AES								
Soil Glass Jar - Unpreserved (EG005T)								
D03_20211217,	BUR_BH120_0.2,	**17-Dec-2021**	**24-Dec-2021**	15-Jun-2022	✓	**30-Dec-2021**	15-Jun-2022	✓
BUR_BH120_0.5,	BUR_BH108_0.2,							
D04_20211217,	BUR_BH108_0.5,							
BUR_BH108_2.0,	BUR_BH108_5.8,							
BUR_BH108_11.0,	BUR_BH108_20.0,							
BUR_BH108_17.0,	BUR_BH106_0.2,							
BUR_BH106_1.0,	BUR_BH106_2.0,							
BUR_BH106_3.0,	BUR_BH106_4.0,							
BUR_BH106_5.0,	D02_20211217,							
BUR_BH107_0.2,	BUR_BH107_1.0,							
BUR_BH107_3.0,	BUR_BH107_5.0							
EG035T: Total Recoverable Mercury by FIMS								
Soil Glass Jar - Unpreserved (EG035T)								
D03_20211217,	BUR_BH120_0.2,	**17-Dec-2021**	**24-Dec-2021**	14-Jan-2022	✓	**30-Dec-2021**	14-Jan-2022	✓
BUR_BH120_0.5,	BUR_BH108_0.2,							
D04_20211217,	BUR_BH108_0.5,							
BUR_BH108_2.0,	BUR_BH108_5.8,							
BUR_BH108_11.0,	BUR_BH108_20.0,							
BUR_BH108_17.0,	BUR_BH106_0.2,							
BUR_BH106_1.0,	BUR_BH106_2.0,							
BUR_BH106_3.0,	BUR_BH106_4.0,							
BUR_BH106_5.0,	D02_20211217,							
BUR_BH107_0.2,	BUR_BH107_1.0,							
BUR_BH107_3.0,	BUR_BH107_5.0							
EP066: Polychlorinated Biphenyls (PCB)								
Soil Glass Jar - Unpreserved (EP066)								
D03_20211217,	BUR_BH120_0.2,	**17-Dec-2021**	**29-Dec-2021**	31-Dec-2021	✓	**31-Dec-2021**	07-Feb-2022	✓
BUR_BH120_0.5,	BUR_BH108_0.2,							
D04_20211217,	BUR_BH108_0.5,							
BUR_BH108_2.0,	BUR_BH108_5.8,							
BUR_BH108_11.0,	BUR_BH108_20.0,							
BUR_BH108_17.0,	BUR_BH106_0.2,							
BUR_BH106_1.0,	BUR_BH106_2.0,							
BUR_BH106_3.0,	BUR_BH106_4.0,							
BUR_BH106_5.0,	D02_20211217,							
BUR_BH107_0.2,	BUR_BH107_1.0,							
BUR_BH107_3.0,	BUR_BH107_5.0							

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Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)		Sample Date	Extraction / Preparation			Analysis		
			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP068A: Organochlorine Pesticides (OC)								
Soil Glass Jar - Unpreserved (EP068)								
D03_20211217,	BUR_BH120_0.2,	**17-Dec-2021**	**29-Dec-2021**	31-Dec-2021	✓	**31-Dec-2021**	07-Feb-2022	✓
BUR_BH120_0.5,	BUR_BH108_0.2,							
D04_20211217,	BUR_BH108_0.5,							
BUR_BH108_2.0,	BUR_BH108_5.8,							
BUR_BH108_11.0,	BUR_BH108_20.0,							
BUR_BH108_17.0,	BUR_BH106_0.2,							
BUR_BH106_1.0,	BUR_BH106_2.0,							
BUR_BH106_3.0,	BUR_BH106_4.0,							
BUR_BH106_5.0,	D02_20211217,							
BUR_BH107_0.2,	BUR_BH107_1.0,							
BUR_BH107_3.0,	BUR_BH107_5.0							
EP068B: Organophosphorus Pesticides (OP)								
Soil Glass Jar - Unpreserved (EP068)								
D03_20211217,	BUR_BH120_0.2,	**17-Dec-2021**	**29-Dec-2021**	31-Dec-2021	✓	**31-Dec-2021**	07-Feb-2022	✓
BUR_BH120_0.5,	BUR_BH108_0.2,							
D04_20211217,	BUR_BH108_0.5,							
BUR_BH108_2.0,	BUR_BH108_5.8,							
BUR_BH108_11.0,	BUR_BH108_20.0,							
BUR_BH108_17.0,	BUR_BH106_0.2,							
BUR_BH106_1.0,	BUR_BH106_2.0,							
BUR_BH106_3.0,	BUR_BH106_4.0,							
BUR_BH106_5.0,	D02_20211217,							
BUR_BH107_0.2,	BUR_BH107_1.0,							
BUR_BH107_3.0,	BUR_BH107_5.0							
EP074A: Monocyclic Aromatic Hydrocarbons								
Soil Glass Jar - Unpreserved (EP074)								
D03_20211217,	BUR_BH120_0.2,	**17-Dec-2021**	**23-Dec-2021**	24-Dec-2021	✓	**24-Dec-2021**	24-Dec-2021	✓
BUR_BH108_0.2,	D04_20211217,							
BUR_BH108_0.5,	BUR_BH108_5.8,							
BUR_BH108_20.0,	BUR_BH106_0.2,							
BUR_BH106_2.0,	BUR_BH106_4.0,							
D02_20211217,	BUR_BH107_1.0,							
BUR_BH107_3.0,	BUR_BH107_5.0							

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Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP074B: Oxygenated Compounds							
Soil Glass Jar - Unpreserved (EP074)							
D03_20211217, BUR_BH108_0.2, BUR_BH108_0.5, BUR_BH108_20.0, BUR_BH106_2.0, D02_20211217, BUR_BH107_3.0, BUR_BH120_0.2, D04_20211217, BUR_BH108_5.8, BUR_BH106_0.2, BUR_BH106_4.0, BUR_BH107_1.0, BUR_BH107_5.0	**17-Dec-2021**	**23-Dec-2021**	24-Dec-2021	✓	**24-Dec-2021**	24-Dec-2021	✓
EP074C: Sulfonated Compounds							
Soil Glass Jar - Unpreserved (EP074)							
D03_20211217, BUR_BH108_0.2, BUR_BH108_0.5, BUR_BH108_20.0, BUR_BH106_2.0, D02_20211217, BUR_BH107_3.0, BUR_BH120_0.2, D04_20211217, BUR_BH108_5.8, BUR_BH106_0.2, BUR_BH106_4.0, BUR_BH107_1.0, BUR_BH107_5.0	**17-Dec-2021**	**23-Dec-2021**	24-Dec-2021	✓	**24-Dec-2021**	24-Dec-2021	✓
EP074D: Fumigants							
Soil Glass Jar - Unpreserved (EP074)							
D03_20211217, BUR_BH108_0.2, BUR_BH108_0.5, BUR_BH108_20.0, BUR_BH106_2.0, D02_20211217, BUR_BH107_3.0, BUR_BH120_0.2, D04_20211217, BUR_BH108_5.8, BUR_BH106_0.2, BUR_BH106_4.0, BUR_BH107_1.0, BUR_BH107_5.0	**17-Dec-2021**	**23-Dec-2021**	24-Dec-2021	✓	**24-Dec-2021**	24-Dec-2021	✓
EP074E: Halogenated Aliphatic Compounds							
Soil Glass Jar - Unpreserved (EP074)							
D03_20211217, BUR_BH108_0.2, BUR_BH108_0.5, BUR_BH108_20.0, BUR_BH106_2.0, D02_20211217, BUR_BH107_3.0, BUR_BH120_0.2, D04_20211217, BUR_BH108_5.8, BUR_BH106_0.2, BUR_BH106_4.0, BUR_BH107_1.0, BUR_BH107_5.0	**17-Dec-2021**	**23-Dec-2021**	24-Dec-2021	✓	**24-Dec-2021**	24-Dec-2021	✓

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Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)		Sample Date	Extraction / Preparation			Analysis		
			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP074F: Halogenated Aromatic Compounds								
Soil Glass Jar - Unpreserved (EP074)								
D03_20211217,	BUR_BH120_0.2,	**17-Dec-2021**	**23-Dec-2021**	24-Dec-2021	✓	**24-Dec-2021**	24-Dec-2021	✓
BUR_BH108_0.2,	D04_20211217,							
BUR_BH108_0.5,	BUR_BH108_5.8,							
BUR_BH108_20.0,	BUR_BH106_0.2,							
BUR_BH106_2.0,	BUR_BH106_4.0,							
D02_20211217,	BUR_BH107_1.0,							
BUR_BH107_3.0,	BUR_BH107_5.0							
EP074G: Trihalomethanes								
Soil Glass Jar - Unpreserved (EP074)								
D03_20211217,	BUR_BH120_0.2,	**17-Dec-2021**	**23-Dec-2021**	24-Dec-2021	✓	**24-Dec-2021**	24-Dec-2021	✓
BUR_BH108_0.2,	D04_20211217,							
BUR_BH108_0.5,	BUR_BH108_5.8,							
BUR_BH108_20.0,	BUR_BH106_0.2,							
BUR_BH106_2.0,	BUR_BH106_4.0,							
D02_20211217,	BUR_BH107_1.0,							
BUR_BH107_3.0,	BUR_BH107_5.0							
EP074H: Naphthalene								
Soil Glass Jar - Unpreserved (EP074)								
D03_20211217,	BUR_BH120_0.2,	**17-Dec-2021**	**23-Dec-2021**	24-Dec-2021	✓	**24-Dec-2021**	24-Dec-2021	✓
BUR_BH108_0.2,	D04_20211217,							
BUR_BH108_0.5,	BUR_BH108_5.8,							
BUR_BH108_20.0,	BUR_BH106_0.2,							
BUR_BH106_2.0,	BUR_BH106_4.0,							
D02_20211217,	BUR_BH107_1.0,							
BUR_BH107_3.0,	BUR_BH107_5.0							
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Soil Glass Jar - Unpreserved (EP075(SIM))								
D03_20211217,	BUR_BH120_0.2,	**17-Dec-2021**	**29-Dec-2021**	31-Dec-2021	✓	**30-Dec-2021**	07-Feb-2022	✓
BUR_BH120_0.5,	BUR_BH108_0.2,							
D04_20211217,	BUR_BH108_0.5,							
BUR_BH108_2.0,	BUR_BH108_5.8,							
BUR_BH108_11.0,	BUR_BH108_20.0,							
BUR_BH108_17.0,	BUR_BH106_0.2,							
BUR_BH106_1.0,	BUR_BH106_2.0,							
BUR_BH106_3.0,	BUR_BH106_4.0,							
BUR_BH106_5.0,	D02_20211217,							
BUR_BH107_0.2,	BUR_BH107_1.0,							
BUR_BH107_3.0,	BUR_BH107_5.0							

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Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP080/071: Total Petroleum Hydrocarbons							
Soil Glass Jar - Unpreserved (EP080)							
Trip Blank 1 - Received as extra sample	**15-Dec-2021**	**23-Dec-2021**	29-Dec-2021	✓	**29-Dec-2021**	29-Dec-2021	✓
Soil Glass Jar - Unpreserved (EP080)							
D03_20211217, BUR_BH120_0.2, BUR_BH108_0.2, D04_20211217, BUR_BH108_0.5, BUR_BH108_5.8, BUR_BH108_20.0, BUR_BH106_0.2, BUR_BH106_2.0, BUR_BH106_4.0, D02_20211217, BUR_BH107_1.0, BUR_BH107_3.0, BUR_BH107_5.0	**17-Dec-2021**	**23-Dec-2021**	31-Dec-2021	✓	**24-Dec-2021**	31-Dec-2021	✓
Soil Glass Jar - Unpreserved (EP080)							
BUR_BH120_0.5, BUR_BH108_2.0, BUR_BH108_11.0, BUR_BH108_17.0, BUR_BH106_1.0, BUR_BH106_3.0, BUR_BH106_5.0, BUR_BH107_0.2	**17-Dec-2021**	**23-Dec-2021**	31-Dec-2021	✓	**29-Dec-2021**	31-Dec-2021	✓
Soil Glass Jar - Unpreserved (EP071)							
D03_20211217, BUR_BH120_0.2, BUR_BH120_0.5, BUR_BH108_0.2, D04_20211217, BUR_BH108_0.5, BUR_BH108_2.0, BUR_BH108_5.8, BUR_BH108_11.0, BUR_BH108_20.0, BUR_BH108_17.0, BUR_BH106_0.2, BUR_BH106_1.0, BUR_BH106_2.0, BUR_BH106_3.0, BUR_BH106_4.0, BUR_BH106_5.0, D02_20211217, BUR_BH107_0.2, BUR_BH107_1.0, BUR_BH107_3.0, BUR_BH107_5.0	**17-Dec-2021**	**29-Dec-2021**	31-Dec-2021	✓	**30-Dec-2021**	07-Feb-2022	✓

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Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions							
Soil Glass Jar - Unpreserved (EP080)							
Trip Blank 1 - Received as extra sample	**15-Dec-2021**	**23-Dec-2021**	29-Dec-2021	✓	**29-Dec-2021**	29-Dec-2021	✓
Soil Glass Jar - Unpreserved (EP080)							
D03_20211217, BUR_BH120_0.2, BUR_BH108_0.2, D04_20211217, BUR_BH108_0.5, BUR_BH108_5.8, BUR_BH108_20.0, BUR_BH106_0.2, BUR_BH106_2.0, BUR_BH106_4.0, D02_20211217, BUR_BH107_1.0, BUR_BH107_3.0, BUR_BH107_5.0	**17-Dec-2021**	**23-Dec-2021**	31-Dec-2021	✓	**24-Dec-2021**	31-Dec-2021	✓
Soil Glass Jar - Unpreserved (EP080)							
BUR_BH120_0.5, BUR_BH108_2.0, BUR_BH108_11.0, BUR_BH108_17.0, BUR_BH106_1.0, BUR_BH106_3.0, BUR_BH106_5.0, BUR_BH107_0.2	**17-Dec-2021**	**23-Dec-2021**	31-Dec-2021	✓	**29-Dec-2021**	31-Dec-2021	✓
Soil Glass Jar - Unpreserved (EP071)							
D03_20211217, BUR_BH120_0.2, BUR_BH120_0.5, BUR_BH108_0.2, D04_20211217, BUR_BH108_0.5, BUR_BH108_2.0, BUR_BH108_5.8, BUR_BH108_11.0, BUR_BH108_20.0, BUR_BH108_17.0, BUR_BH106_0.2, BUR_BH106_1.0, BUR_BH106_2.0, BUR_BH106_3.0, BUR_BH106_4.0, BUR_BH106_5.0, D02_20211217, BUR_BH107_0.2, BUR_BH107_1.0, BUR_BH107_3.0, BUR_BH107_5.0	**17-Dec-2021**	**29-Dec-2021**	31-Dec-2021	✓	**30-Dec-2021**	07-Feb-2022	✓

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Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)		Sample Date	Extraction / Preparation			Analysis		
			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP080: BTEXN								
Soil Glass Jar - Unpreserved (EP080)								
Trip Spike 23 - Received as extra sample,	TSC 23	13-Dec-2021	23-Dec-2021	27-Dec-2021	✓	24-Dec-2021	27-Dec-2021	✓
Soil Glass Jar - Unpreserved (EP080)								
Trip Blank 1 - Received as extra sample		15-Dec-2021	23-Dec-2021	29-Dec-2021	✓	29-Dec-2021	29-Dec-2021	✓
Soil Glass Jar - Unpreserved (EP080)								
D03_20211217,	BUR_BH120_0.2,	17-Dec-2021	23-Dec-2021	31-Dec-2021	✓	24-Dec-2021	31-Dec-2021	✓
BUR_BH108_0.2,	D04_20211217,							
BUR_BH108_0.5,	BUR_BH108_5.8,							
BUR_BH108_20.0,	BUR_BH106_0.2,							
BUR_BH106_2.0,	BUR_BH106_4.0,							
D02_20211217,	BUR_BH107_1.0,							
BUR_BH107_3.0,	BUR_BH107_5.0							
Soil Glass Jar - Unpreserved (EP080)								
BUR_BH120_0.5,	BUR_BH108_2.0,	17-Dec-2021	23-Dec-2021	31-Dec-2021	✓	29-Dec-2021	31-Dec-2021	✓
BUR_BH108_11.0,	BUR_BH108_17.0,							
BUR_BH106_1.0,	BUR_BH106_3.0,							
BUR_BH106_5.0,	BUR_BH107_0.2							
EP231A: Perfluoroalkyl Sulfonic Acids								
HDPE Soil Jar (EP231X)								
D03_20211217,	BUR_BH120_0.5,	17-Dec-2021	30-Dec-2021	15-Jun-2022	✓	31-Dec-2021	08-Feb-2022	✓
BUR_BH108_0.2,	D04_20211217,							
BUR_BH108_0.5,	BUR_BH108_20.0,							
BUR_BH106_0.2,	BUR_BH106_4.0,							
D02_20211217,	BUR_BH107_0.2,							
BUR_BH107_3.0								
EP231B: Perfluoroalkyl Carboxylic Acids								
HDPE Soil Jar (EP231X)								
D03_20211217,	BUR_BH120_0.5,	17-Dec-2021	30-Dec-2021	15-Jun-2022	✓	31-Dec-2021	08-Feb-2022	✓
BUR_BH108_0.2,	D04_20211217,							
BUR_BH108_0.5,	BUR_BH108_20.0,							
BUR_BH106_0.2,	BUR_BH106_4.0,							
D02_20211217,	BUR_BH107_0.2,							
BUR_BH107_3.0								
EP231C: Perfluoroalkyl Sulfonamides								
HDPE Soil Jar (EP231X)								
D03_20211217,	BUR_BH120_0.5,	17-Dec-2021	30-Dec-2021	15-Jun-2022	✓	31-Dec-2021	08-Feb-2022	✓
BUR_BH108_0.2,	D04_20211217,							
BUR_BH108_0.5,	BUR_BH108_20.0,							
BUR_BH106_0.2,	BUR_BH106_4.0,							
D02_20211217,	BUR_BH107_0.2,							
BUR_BH107_3.0								

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Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP231D: (n:2) Fluorotelomer Sulfonic Acids							
HDPE Soil Jar (EP231X)							
D03_20211217, BUR_BH108_0.2, BUR_BH108_0.5, BUR_BH106_0.2, D02_20211217, BUR_BH107_3.0, BUR_BH120_0.5, D04_20211217, BUR_BH108_20.0, BUR_BH106_4.0, BUR_BH107_0.2,	17-Dec-2021	30-Dec-2021	15-Jun-2022	✓	31-Dec-2021	08-Feb-2022	✓
EP231P: PFAS Sums							
HDPE Soil Jar (EP231X)							
D03_20211217, BUR_BH108_0.2, BUR_BH108_0.5, BUR_BH106_0.2, D02_20211217, BUR_BH107_3.0, BUR_BH120_0.5, D04_20211217, BUR_BH108_20.0, BUR_BH106_4.0, BUR_BH107_0.2,	17-Dec-2021	30-Dec-2021	15-Jun-2022	✓	31-Dec-2021	08-Feb-2022	✓

Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EG020F: Dissolved Metals by ICP-MS							
Clear Plastic Bottle - Nitric Acid; Unfiltered (EG020A-F)							
R03_20211217 - Received as extra sample	17-Dec-2021	----	----	----	24-Dec-2021	15-Jun-2022	✓
EG035F: Dissolved Mercury by FIMS							
Clear Plastic Bottle - Nitric Acid; Unfiltered (EG035F)							
R03_20211217 - Received as extra sample	17-Dec-2021	----	----	----	24-Dec-2021	31-Dec-2021	✓
EP080/071: Total Petroleum Hydrocarbons							
Amber Glass Bottle - Unpreserved (EP071)							
R03_20211217 - Received as extra sample	17-Dec-2021	23-Dec-2021	24-Dec-2021	✓	29-Dec-2021	01-Feb-2022	✓
Amber VOC Vial - Sulfuric Acid (EP080)							
R03_20211217 - Received as extra sample	17-Dec-2021	31-Dec-2021	31-Dec-2021	✓	31-Dec-2021	31-Dec-2021	✓
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions							
Amber Glass Bottle - Unpreserved (EP071)							
R03_20211217 - Received as extra sample	17-Dec-2021	23-Dec-2021	24-Dec-2021	✓	29-Dec-2021	01-Feb-2022	✓
Amber VOC Vial - Sulfuric Acid (EP080)							
R03_20211217 - Received as extra sample	17-Dec-2021	31-Dec-2021	31-Dec-2021	✓	31-Dec-2021	31-Dec-2021	✓
EP080: BTEXN							
Amber VOC Vial - Sulfuric Acid (EP080)							
R03_20211217 - Received as extra sample	17-Dec-2021	31-Dec-2021	31-Dec-2021	✓	31-Dec-2021	31-Dec-2021	✓
EP231A: Perfluoroalkyl Sulfonic Acids							
HDPE (no PTFE) (EP231X)							
R03_20211217 - Received as extra sample	17-Dec-2021	30-Dec-2021	15-Jun-2022	✓	31-Dec-2021	15-Jun-2022	✓

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Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP231B: Perfluoroalkyl Carboxylic Acids							
HDPE (no PTFE) (EP231X)							
R03_20211217 - Received as extra sample	**17-Dec-2021**	**30-Dec-2021**	15-Jun-2022	✓	**31-Dec-2021**	15-Jun-2022	✓
EP231C: Perfluoroalkyl Sulfonamides							
HDPE (no PTFE) (EP231X)							
R03_20211217 - Received as extra sample	**17-Dec-2021**	**30-Dec-2021**	15-Jun-2022	✓	**31-Dec-2021**	15-Jun-2022	✓
EP231D: (n:2) Fluorotelomer Sulfonic Acids							
HDPE (no PTFE) (EP231X)							
R03_20211217 - Received as extra sample	**17-Dec-2021**	**30-Dec-2021**	15-Jun-2022	✓	**31-Dec-2021**	15-Jun-2022	✓
EP231P: PFAS Sums							
HDPE (no PTFE) (EP231X)							
R03_20211217 - Received as extra sample	**17-Dec-2021**	**30-Dec-2021**	15-Jun-2022	✓	**31-Dec-2021**	15-Jun-2022	✓

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Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(were) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

Matrix: **SOIL**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Laboratory Duplicates (DUP)							
Moisture Content	EA055	4	34	**11.76**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (SIM)	EP075(SIM)	4	38	**10.53**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	2	19	**10.53**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	4	34	**11.76**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	4	34	**11.76**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	4	36	**11.11**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	4	36	**11.11**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	4	38	**10.53**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	6	57	**10.53**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds	EP074	2	17	**11.76**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
PAH/Phenols (SIM)	EP075(SIM)	2	38	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	2	34	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	2	34	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	36	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	2	36	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	2	38	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	3	57	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds	EP074	1	17	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
PAH/Phenols (SIM)	EP075(SIM)	2	38	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	2	34	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	2	34	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	36	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	2	36	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	2	38	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	3	57	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds	EP074	1	17	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
PAH/Phenols (SIM)	EP075(SIM)	2	38	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	2	34	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	2	34	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	36	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard

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Matrix: **SOIL**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Matrix Spikes (MS) - Continued							
Total Metals by ICP-AES	EG005T	2	36	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	2	38	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	3	57	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds	EP074	1	17	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard

Matrix: **WATER**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Laboratory Duplicates (DUP)							
Dissolved Mercury by FIMS	EG035F	2	17	**11.76**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Metals by ICP-MS - Suite A	EG020A-F	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	19	**5.26**	**10.00**	×	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	0	19	**0.00**	**10.00**	×	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Dissolved Mercury by FIMS	EG035F	1	17	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Metals by ICP-MS - Suite A	EG020A-F	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Dissolved Mercury by FIMS	EG035F	1	17	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Metals by ICP-MS - Suite A	EG020A-F	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Dissolved Mercury by FIMS	EG035F	1	17	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Metals by ICP-MS - Suite A	EG020A-F	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	0	19	**0.00**	**5.00**	×	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard

Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
Moisture Content	EA055	SOIL	In house: A gravimetric procedure based on weight loss over a 12 hour drying period at 105-110 degrees C. This method is compliant with NEPM Schedule B(3).
Asbestos Identification in Soils	EA200	SOIL	AS 4964 Method for the qualitative identification of asbestos in bulk samples Analysis by Polarised Light Microscopy including dispersion staining
Total Metals by ICP-AES	EG005T	SOIL	In house: Referenced to APHA 3120; USEPA SW 846 - 6010. Metals are determined following an appropriate acid digestion of the soil. The ICPAES technique ionises samples in a plasma, emitting a characteristic spectrum based on metals present. Intensities at selected wavelengths are compared against those of matrix matched standards. This method is compliant with NEPM Schedule B(3)
Total Mercury by FIMS	EG035T	SOIL	In house: Referenced to APHA 3112 Hg - B (Flow-injection (SnCl2) (Cold Vapour generation) AAS) FIM-AAS is an automated flameless atomic absorption technique. Mercury in solids are determined following an appropriate acid digestion. Ionic mercury is reduced online to atomic mercury vapour by SnCl2 which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM Schedule B(3)
Polychlorinated Biphenyls (PCB)	EP066	SOIL	In house: Referenced to USEPA SW 846 - 8270 Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3).
Pesticides by GCMS	EP068	SOIL	In house: Referenced to USEPA SW 846 - 8270 Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This technique is compliant with NEPM Schedule B(3).
TRH - Semivolatile Fraction	EP071	SOIL	In house: Referenced to USEPA SW 846 - 8015 Sample extracts are analysed by Capillary GC/FID and quantified against alkane standards over the range C10 - C40. Compliant with NEPM Schedule B(3).
Volatile Organic Compounds	EP074	SOIL	In house: Referenced to USEPA SW 846 - 8260 Extracts are analysed by Purge and Trap, Capillary GC/MS. Quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3).
PAH/Phenols (SIM)	EP075(SIM)	SOIL	In house: Referenced to USEPA SW 846 - 8270. Extracts are analysed by Capillary GC/MS in Selective Ion Mode (SIM) and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3)
TRH Volatiles/BTEX	EP080	SOIL	In house: Referenced to USEPA SW 846 - 8260. Extracts are analysed by Purge and Trap, Capillary GC/MS. Quantification is by comparison against an established 5 point calibration curve. Compliant with NEPM Schedule B(3) amended.
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	SOIL	In-house: Analysis of soils by solvent extraction followed by LC-Electrospray-MS-MS, Negative Mode using MRM using internal standard quantitation. Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to a portion of soil which is then extracted with MTBE and an ion pairing reagent. A portion of extract is exchanged into the analytical solvent mixture, combined with an equal volume reagent water and filtered for analysis. Method procedures and data quality objectives conform to US DoD QSM 5.3, table B-15 requirements.

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Analytical Methods	Method	Matrix	Method Descriptions
Dissolved Metals by ICP-MS - Suite A	EG020A-F	WATER	In house: Referenced to APHA 3125; USEPA SW846 - 6020, ALS QWI-EN/EG020. Samples are 0.45µm filtered prior to analysis. The ICPMS technique utilizes a highly efficient argon plasma to ionize selected elements. Ions are then passed into a high vacuum mass spectrometer, which separates the analytes based on their distinct mass to charge ratios prior to their measurement by a discrete dynode ion detector.
Dissolved Mercury by FIMS	EG035F	WATER	In house: Referenced to APHA 3112 Hg - B (Flow-injection (SnCl2)(Cold Vapour generation) AAS) Samples are 0.45µm filtered prior to analysis. FIM-AAS is an automated flameless atomic absorption technique. A bromate/bromide reagent is used to oxidise any organic mercury compounds in the filtered sample. The ionic mercury is reduced online to atomic mercury vapour by SnCl2 which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM Schedule B(3).
TRH - Semivolatile Fraction	EP071	WATER	In house: Referenced to USEPA SW 846 - 8015 The sample extract is analysed by Capillary GC/FID and quantification is by comparison against an established 5 point calibration curve of n-Alkane standards. This method is compliant with the QC requirements of NEPM Schedule B(3)
TRH Volatiles/BTEX	EP080	WATER	In house: Referenced to USEPA SW 846 - 8260 Water samples are directly purged prior to analysis by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. Alternatively, a sample is equilibrated in a headspace vial and a portion of the headspace determined by GCMS analysis. This method is compliant with the QC requirements of NEPM Schedule B(3)
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	WATER	In-house: Analysis of fresh and saline waters by Solid Phase Extraction (SPE) followed by LC-Electrospray-MS-MS, Negative Mode using MRM and internal standard quantitation. Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to the sample container. The entire contents are transferred to a solid phase extraction (SPE) cartridge. The sample container is successively rinsed with aliquots of the elution solvent. The eluted extract is combined with an equal volume of reagent water and a portion is filtered for analysis. Method procedures and data quality objectives conform to US DoD QSM 5.3, table B-15 requirements.

Preparation Methods	Method	Matrix	Method Descriptions
Hot Block Digest for metals in soils sediments and sludges	EN69	SOIL	In house: Referenced to USEPA 200.2. Hot Block Acid Digestion 1.0g of sample is heated with Nitric and Hydrochloric acids, then cooled. Peroxide is added and samples heated and cooled again before being filtered and bulked to volume for analysis. Digest is appropriate for determination of selected metals in sludge, sediments, and soils. This method is compliant with NEPM Schedule B(3).
Methanolic Extraction of Soils for Purge and Trap	ORG16	SOIL	In house: Referenced to USEPA SW 846 - 5030A. 5g of solid is shaken with surrogate and 10mL methanol prior to analysis by Purge and Trap - GC/MS.
Tumbler Extraction of Solids	ORG17	SOIL	In house: Mechanical agitation (tumbler). 10g of sample, Na2SO4 and surrogate are extracted with 30mL 1:1 DCM/Acetone by end over end tumble. The solvent is decanted, dehydrated and concentrated (by KD) to the desired volume for analysis.
QuECheRS Extraction of Solids	ORG71	SOIL	In house: Sequential extractions with Acetonitrile/Methanol by shaking. Extraction efficiency aided by the addition of salts under acidic conditions. Where relevant, interferences from co-extracted organics are removed with dispersive clean-up media (dSPE). The extract is either diluted or concentrated and exchanged into the analytical solvent.

Preparation Methods	Method	Matrix	Method Descriptions
Separatory Funnel Extraction of Liquids	ORG14	WATER	In house: Referenced to USEPA SW 846 - 3510 100 mL to 1L of sample is transferred to a separatory funnel and serially extracted three times using DCM for each extract. The resultant extracts are combined, dehydrated and concentrated for analysis. This method is compliant with NEPM Schedule B(3) . ALS default excludes sediment which may be resident in the container.
Volatiles Water Preparation	ORG16-W	WATER	A 5 mL aliquot or 5 mL of a diluted sample is added to a 40 mL VOC vial for purging.
Solid Phase Extraction (SPE) for PFAS in water	ORG72	WATER	In-house: Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to the sample container. The entire contents are transferred to a solid phase extraction (SPE) cartridge. The sample container is successively rinsed with aliquots of the elution solvent. The eluted extract is combined with an equal volume of reagent water and a portion is filtered for analysis. Method procedures conform to US DoD QSM 5.3, table B-15 requirements.

DRAFT

CHAIN OF CUSTODY

CLIENT:	ERM	TURNAROUND REQUIREMENTS: ☐ Standard TAT (List due date)	FOR LABORATORY USE ONLY (Circle)
OFFICE:	Sydney	☐ Non Standard or urgent TAT (List due date)	
PROJECT:	0577527 - Burwood	ALS QUOTE NO:	COC SEQUENCE NUMBER (Circle)
ORDER NUMBER:			Random Sample Temperature on Receipt: 25
PROJECT MANAGER:	Jessica Lawrence	CONTACT PH: 0404925554	Other comments:
SAMPLER:	Tristan Rodrigues	SAMPLER MOBILE: 0417187687	RELINQUISHED BY: Tristan Rodrigues — DATE/TIME: 20/12/21
COC emailed to ALS? YES		EDD FORMAT (or default):	RECEIVED BY: SOFIA AG — DATE/TIME: 20/12/21 17:50
Email Reports to:			RELINQUISHED BY: — DATE/TIME:
Email Invoice to:			RECEIVED BY: — DATE/TIME:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE ONLY	SAMPLE DETAILS MATRIX: Soil(S) Water(W)			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB: Suite Codes must be listed to attract suite prices)					Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (codes only)	TOTAL BOTTLES	PFAS (28 analytes) LOR= 5ng/kg	S16	Asbestos	VOC	HOLD	
1	DD3 - 20211217	17/12/21	Soil			X	X		X		
—	TD3 - 20211217					X	X		X		Please Send to Eurofins
2	BUR - BH120 - 0.2						X		X		
	- 0.5					X	X				
3	BUR - BH105 - 0.2					X	X		X		
4	DD4 - 20211217					X	X		X		
—	TD4 - 20211217					X	X		X		Please Send to Eurofins
5	BUR - BH104 - 0.5					X	X		X		
	- 2.0						X				
	- 3.8						X		X		
	- 11.0						X				
	- 20.0					X	X		X		
10	- 17.0						X				

Water Container Codes: P = Unpreserved Plastic; ... Soil Container Codes: ...

DRAFT

Environmental Division
Sydney
Work Order Reference
ES2146625

Telephone : +61-2-8784 8555

CHAIN OF CUSTODY

ALS Laboratory: please tick →

CLIENT:	ERM	TURNAROUND REQUIREMENTS:	FOR LABORATORY USE ONLY (Circle)
OFFICE:	Sydney	ALS QUOTE NO.:	COC SEQUENCE NUMBER (Circle)
PROJECT:	0577577 - Burwood		
ORDER NUMBER:			
PROJECT MANAGER:	Jessica Lawrence	CONTACT PH: 0484935554	
SAMPLER:	Tristan Rodrigues	SAMPLER MOBILE: 0417187987	
COC emailed to ALS?	YES	EDD FORMAT (or default):	
Email Reports to:	jessica.lawrence@erm.com; tristan.rodrigues@erm.com		
Email Invoice to:	jessica.lawrence@erm.com		

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Tristan Rodrigues			
DATE/TIME: 20/12/21	DATE/TIME: 20/12/21 1750	DATE/TIME:	DATE/TIME:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE ONLY	SAMPLE DETAILS (MATRIX: Soil/Sediment S; Water W)			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB: Suite Codes must be listed to attract suite prices)					Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (codes below)	TOTAL BOTTLES	PFAS (28 analytes) LOR 500ng	31B	Asbestos	VOC	HOLD	
11	BAR_BH06_0.2	17/12/21	S	0.1		X	X	X	X		
12	_1.0						X				
13	_2.0						X		X		
14	_3.0						X				
15	_4.0					X	X		X		
16	_5.0						X				
17	DO2_20211217					X	X		X		
—	TO2_20211217					X	X		X		Please Send to Eurofins
18	BAR_BH07_0.2					X	X	X			
19	_1.0						X		X		
20	_2.0						#1				
21	_3.0					X	X		X		
	[redacted]						#1				
22	_5.6					#1	X		X		

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide/Cd Preserved; S = Sodium Hydroxide Preserved Plastic; AG = Amber Glass Unpreserved; AP = Airfreight Unpreserved Plastic

DRAFT

Subcon / Lab / Analyses: Newcastle → Asbestos

Organised By / Date: Eurofins → TO3_20211217

Relinquished By / Date: TO4_20211217

Connote / Courier: TO2_20211217

WO No:

Attached to PO / Internal Sheet:

CHAIN OF CUSTODY

ERM Sydney

TURNAROUND REQUIREMENTS: ☐ Standard TAT (list due date) ☐ Non-Standard or urgent TAT (list due date)

FOR LABORATORY USE ONLY (Circle)

PROJECT: 0527577 - Burwood

ALS QUOTE NO.:

COC SEQUENCE NUMBER (Circle)

ORDER NUMBER:

PROJECT MANAGER: Jessica Lawrence — CONTACT PH: 0404935554

SAMPLER: Tristan Rodrigues — SAMPLER MOBILE: 0417187687

COC emailed to ALS? YES — EDD FORMAT (or default):

Email Reports to: jessica.lawrence@erm.com; tristan.rodrigues@erm.com

Email Invoice to: jessica.lawrence@erm.com

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Tristan Rodrigues	SOSH/NO ASB		
DATE/TIME: 20/12/21	DATE/TIME: 20/12/21 17:50	DATE/TIME	DATE/TIME

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE ONLY	SAMPLE DETAILS (MATRIX: Soil(S) Water(W))			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB: Suite Codes must be listed to attract suite price)					Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to table)	TOTAL BOTTLES	PFAS (28 analytes) LOR = 5ug/kg	SVE	Asbestos	VOC	HOLD	
1	DO3 - 20211217	17/12/21	Soil			X	X		X		
1	TO3 - 20211217					X	X		X		Please Send to Eurofins
2	BHR - BH120 - 0.2						X		X		
3	- 0.5					X	X				
4	BHR - BH105 - 0.2					X	X		X		
5	DO4 - 20211217					X	X		X		
1	TO4 - 20211217					X	X		X		Please Send to Eurofins
6	BHR - BH105 - 0.5					X	X		X		
7	- 2.0						X				
8	- 3.5						X		X		
9	- 11.0						X				
10	- 20.0					X	X		X		
11	- 17.0						X				

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide Preserved Plastic; S = Sodium Hydroxide/Zinc Acetate Preserved; AG = Unpreserved Amber Glass; H = Hydrochloric Preserved Plastic; VS = Hydrochloric Preserved VOC vial; ASS = Plastic Bag for Acid Sulfate Soils; B = Unpreserved Bag; E = Preserved Glass

DRAFT

Environmental Division
Sydney
Work Order Reference
ES2146625

Telephone : +61-2-8784 8555

CHAIN OF CUSTODY

ALS

CLIENT:	ERM	TURNAROUND REQUIREMENTS	FOR LABORATORY USE ONLY
OFFICE:	Sydney	ALS QUOTE NO.	COC SEQUENCE NUMBER
PROJECT:	0577527 - Burnoone		
ORDER NUMBER:			
PROJECT MANAGER:	Jessica Lawrence	CONTACT PH: 0484915554	
SAMPLER:	Tristan Rodrigues	SAMPLER MOBILE 0417187687	
COC emailed to ALS?	YES	EDD FORMAT (or default):	
Email Reports to:			
Email Invoice to:			

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Tristan Rodrigues			
DATE/TIME: 20/12/21	DATE/TIME: 20/12/21 1750	DATE/TIME:	DATE/TIME:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE ONLY	SAMPLE DETAILS (MATRIX: Soils/Solids S / Water W)			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES							Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL BOTTLES	PFAS (28 analytes) LOR= 5ug/kg	BTEX	Asbestos	VOC			HOLD	
12	BUR_BH106_0.2	17/12/21	S	1		X	X	X	X				
13	_1.0						X						
14	_2.0						X		X				
15	_3.0						X						
16	_4.0					X	X		X				
17	_5.0						X						
18	DO2_20211217					X	X		X				
—	TO2_20211217					X	X		X				Please Send to Eurofins
19	BUR_BH107_0.2					X	X	X					
20	_1.0						X		X				
21	_2.0						#14						
22	_3.0					X	X		X				
	[redacted]						#14						
23	_5.6					X	X		X				

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide/Cd Preserved; S = Sodium Hydroxide Preserved Plastic; AG = Amber Glass Unpreserved; AP = Airfreight Unpreserved Plastic; [illegible]

24 BUR_BH102_0.15 16/12/21
25 Trip Blank 1 15/12/21
26 Trip Spike 23 13/12/21
27 TSC 23 13/12/21
28 Trip Blank 2 15/12/21
29 Trip Spike 24 13/12/21
30 TSC 24 13/12/21
31 RO3_20211217 17/12/21

DRAFT

Subcon / Lab / Split WO:
Lab / Analyst: Newcastle → Asbestos
Organised By / Date: Eurofins → TO3_20211217
Relinquished By / Date: TO4_20211217
Connote / Courier: TO2_20211217
WO No:
Attached to / Internal Sheet:

CHAIN OF CUSTODY

CLIENT:	ERM	TURNAROUND REQUIREMENTS:	FOR LABORATORY USE ONLY
OFFICE:	Sydney	ALS QUOTE NO:	COC SEQUENCE NUMBER
PROJECT:	0527577 - Burwood		
ORDER NUMBER:			
PROJECT MANAGER:	Jessica Lawrence	CONTACT PH: 0434923554	
SAMPLER:	Tristan Rodrigues	SAMPLER MOBILE: 0447187687	
COC emailed to ALS?	YES	EDD FORMAT (or default):	
Email Reports to:			
Email Invoice to:			

RELINQUISHED BY: Tristan Rodrigues — DATE/TIME: 20/12/21
RECEIVED BY: SCHS/Y/NO AS — DATE/TIME: 20/12/21 1750
RELINQUISHED BY: — DATE/TIME:
RECEIVED BY: — DATE/TIME:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE ONLY	SAMPLE DETAILS (MATRIX: Soil/Sl Water(W))			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB: Suite Codes must be listed to attract suite price)					Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (codes below)	TOTAL BOTTLES	PFAS (28 analytes) LOR= 5ug/kg	S16	Asbestos	VOC	HOLD	
1	DO3 - 20211217	17/12/21	Soil			X	X		X		
—	TO3 - 20211217					X	X		X		Please Send to Eurofins
2	BUR - BH120 - 0.3						X		X		
3	- 0.5					X	X				
4	BUR - BH105 - 0.2					X	X		X		
5	DO4 - 20211217					X	X		X		
—	TO4 - 20211217					X	X		X		Please Send to Eurofins
6	BUR - BH105 - 0.5					X	X		X		
7	- 2.0						X				
8	- 5.8						X		X		
9	- 11.0						X				
10	- 20.0					X	X		X		
11	- 17.0						X				

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Unpreserved Sterile Plastic; ST = Sterile Nitric Preserved Plastic; AV = Unpreserved Amber Vial; AG = Unpreserved Amber Glass; H = HCl Preserved Plastic; HS = HCl Preserved Speciation bottle; SP = Sodium Thiosulphate Preserved Plastic; VH = Hydrochloric Preserved VOC Vial; VS = Sulphuric Preserved VOC Vial; ASS = Plastic Bag for Acid Sulphate Soils; B = Unpreserved Bag.

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Environmental Division
Sydney
Work Order Reference
ES2146625

Telephone : +61-2-8784 8555

Extra #124 to be tested for Asbestos ID.
TB + TS (one set) to be tested - default analys.
RO3 to be tested for PFAS, TRH/BTEX/metals
} as discussed with Tristan 21/12/21 dB

CHAIN OF CUSTODY

ALS

CLIENT:	ERM	TURNAROUND REQUIREMENTS	FOR LABORATORY USE ONLY
OFFICE:	Sydney		
PROJECT:	0577577 - Burwood	ALS QUOTE NO.:	
ORDER NUMBER:		COC SEQUENCE NUMBER	
PROJECT MANAGER:	Jessica Lawrence	CONTACT PH: 0404935554	
SAMPLER:	Tristan Rodrigues	SAMPLER MOBILE: 0417187687	
COC emailed to ALS?	YES	EDD FORMAT (or default):	
Email Reports to:	jessica.lawrence@erm.com; tristan.rodrigues@erm.com		
Email Invoice to:	jessica.lawrence@erm.com		

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Tristan Rodrigues			
DATE/TIME: 20/12/21	DATE/TIME: 20/12/21 1750	DATE/TIME:	DATE/TIME:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE ONLY	SAMPLE DETAILS (MATRIX: Soil(S) / Water(W))			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB: Suite Codes must be listed to attract suite prices)					Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL BOTTLES	PFAS (28 analytes) LOR= 5ug/kg	8260	Asbestos	VOC	HOLD	
12	BUR_BH06_0.2	17/12/21	S			X	X	X	X		
13	-1.0						X				
14	-2.0						X		X		
15	-3.0						X				
16	-4.0					X	X		X		
17	-5.0						X				
18	DO2_20211217					X	X		X		
1	TO2_20211217					X	X		X		Move Sad to Eurofins
19	BUR_BH07_0.2					X	X	X			
20	-1.0						X		X		
21	-2.0						#4				
22	-3.0					X	X		X		
	[redacted]						#4				
23	-5.0					X	X		X		

Water Container Codes: P - Unpreserved Plastic; N - Nitric Preserved Plastic; ORC - Nitric Preserved ORC; SH - Sodium Hydroxide Preserved Plastic; S - Sodium Hydroxide Preserved Plastic; AG - Amber Glass Unpreserved; AP - Airfreight Unpreserved Plastic; V - 40mL Vial HCl Preserved; VB - 40mL Vial Sodium Bisulphate Preserved; VS - 40mL Vial Sulfuric Preserved; AV - Airfreight Unpreserved Vial; SG - Sulfuric Preserved Amber Glass; H - HCl preserved Plastic; HS - HCl preserved Speciation bottle; SP - Sulfuric Preserved Plastic; F - Formaldehyde Preserved Glass; E - EDTA Preserved Bottle; ST - Sterile Bottle; ASS - Plastic Bag for Acid Sulphate Soils; B - Unpreserved Bag.

24	BUR_BH102_0.15	16/12/21	29	Trip Spike 24	13/12/21
25	Trip Blank 1	15/12/21	30	TSC 24	13/12/21
26	Trip Spike 23	13/12/21	31	RO3_20211217	17/12/21
27	TSC 23	13/12/21			
28	Trip Blank 2	15/12/21			

DRAFT

ALS Environmental

CERTIFICATE OF ANALYSIS

Work Order	: **ES2146990**	Page	: 1 of 88
Amendment	: **3**		
Client	: **ENVIRONMENTAL RESOURCES MANAGEMENT (ERM)**	Laboratory	: Environmental Division Sydney
Contact	: MS JESSICA LAWRENCE	Contact	: Customer Services ES
Address	: LEVEL 15 309 KENT STREET SYDNEY NSW AUSTRALIA 2000	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: +61 02 8584 8888	Telephone	: +61-2-8784 8555
Project	: 0577577 - Burwood	Date Samples Received	: 22-Dec-2021 14:10
Order number	: ----	Date Analysis Commenced	: 23-Dec-2021
C-O-C number	: ----	Issue Date	: 02-Feb-2022 15:10
Sampler	: TRISTAN RODRIGUES		
Site	: ----		
Quote number	: EN/114		
No. of samples received	: 58		
No. of samples analysed	: 51		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Descriptive Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Alana Smylie	Asbestos Identifier	Newcastle - Asbestos, Mayfield West, NSW
Alex Rossi	Organic Chemist	Sydney Organics, Smithfield, NSW
Evie Sidarta	Inorganic Chemist	Sydney Inorganics, Smithfield, NSW
Franco Lentini	LCMS Coordinator	Sydney Inorganics, Smithfield, NSW
Franco Lentini	LCMS Coordinator	Sydney Organics, Smithfield, NSW
Wisam Marassa	Inorganics Coordinator	Sydney Inorganics, Smithfield, NSW

DRAFT

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) per the NEPM (2013) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a.h)anthracene (1.0), Benzo(g.h.i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero, for 'TEQ 1/2LOR' are treated as half the reported LOR, and for 'TEQ LOR' are treated as being equal to the reported LOR. Note: TEQ 1/2LOR and TEQ LOR will calculate as 0.6mg/Kg and 1.2mg/Kg respectively for samples with non-detects for all of the eight TEQ PAHs.
- EA200: Asbestos Identification Samples were analysed by Polarised Light Microscopy including dispersion staining.
- EP231X - Per- and Polyfluoroalkyl Substances (PFAS): Samples received in 20ml or 125ml bottles have been tested in accordance with the QSM5.3 compliant, NATA accredited method. 60mL or 250mL bottles have been tested to the legacy QSM 5.1 aligned, NATA accredited method.
- EP080: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EP068: Where reported, Total Chlordane (sum) is the sum of the reported concentrations of cis-Chlordane and trans-Chlordane at or above the LOR.
- EP068: Where reported, Total OCP is the sum of the reported concentrations of all Organochlorine Pesticides at or above LOR.
- EP074: Where reported, Total Trihalomethanes is the sum of the reported concentrations of all Trihalomethanes at or above the LOR.
- EP074: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EP074: Where reported, Sum of chlorinated hydrocarbons includes carbon tetrachloride, chlorobenzene, chloroform, 1,2-dichlorobenzene, 1,4-dichlorobenzene, 1,2-dichloroethane, 1,1-dichloroethene, cis-1,2-dichlorothene, trans-1,2-dichlorothene, 1,1,1,2-tetrachloroethane, 1,1,2,2-tetrachloroethane, 1,2,4-trichlorobenzene, 1,1,1-trichloroethane, 1,1,2-trichloroethane, trichloroethene, vinyl chloride, hexachlorobutadiene and methylene chloride.
- EP074: Where reported, Total Trimethylbenzenes is the sum of the reported concentrations of 1.2.3-Trimethylbenzene, 1.2.4-Trimethylbenzene and 1.3.5-Trimethylbenzene at or above the LOR.
- EP075(SIM): Where reported, Total Cresol is the sum of the reported concentrations of 2-Methylphenol and 3- & 4-Methylphenol at or above the LOR.
- EP066 : Positive PCB result is confirmed by re-extraction and re-analysis.
- EG035: Positive Mercury result ES2146990#48 has been confirmed by reanalysis.
- **EA200 Legend**
- EA200 'Am' Amosite (brown asbestos)
- EA200 'Cr' Crocidolite (blue asbestos)
- EA200 'Ch' Chrysotile (white asbestos)
- EA200: 'UMF' Unknown Mineral Fibres. "-" indicates fibres detected may or may not be asbestos fibres. Confirmation by alternative techniques is recommended.
- EA200: Analysis of asbestos from swabs and tapes is not covered under the current scope of NATA accreditation.
- Amendment (19/01/2022): This report has been amended as a result of a request to change sample identification numbers (IDs) received 19/01/2022, for samples ES2146990-038. All analysis results are as per the previous report.

DRAFT

- Amendment (01/02/2022): This report has been amended as a result of misinterpretation of sample identification numbers (IDs) for Sample 051. All analysis results are as per the previous report.
- EP080: The trip spike and its control have been analysed for volatile TPH and BTEXN only. The trip spike and control were prepared in the lab using reagent grade sand spiked with petrol. The spike was dispatched from the lab and the control retained.
- Amendment (02/02/2022):This report has been amended to changed LOR for PFAS analysis to 5ug/kg.
- EA200 'Trace' - Asbestos fibres ("Free Fibres") detected by trace analysis per AS4964. The result can be interpreted that the sample contains detectable 'respirable' asbestos fibres
- EA200: For samples larger than 30g, the <2mm fraction may be sub-sampled prior to trace analysis as outlined in ISO23909:2008(E) Sect 6.3.2-2
- EA200: 'Yes' - Asbestos detected by polarised light microscopy including dispersion staining.
- EA200: 'No*' - No asbestos found, at the reporting limit of 0.1g/kg, by polarised light microscopy including dispersion staining. Asbestos material was detected and positively identified at concentrations estimated to be below 0.1g/kg.
- EA200: 'No' - No asbestos found at the reporting limit 0.1g/kg, by polarised light microscopy including dispersion staining.
- EA200: N/A - Not Applicable
- EP231: Stable isotope enriched internal standards are added to samples prior to extraction. Target compounds have a direct analogous internal standard with the exception of PFPeS, PFHpA, PFDS, PFTrDA and 10:2 FTS. These compounds use an internal standard that is chemically related and has a retention time close to that of the target compound. The DQO for internal standard response is 50-150% of that established at initial calibration. PFOS is quantified using a certified, traceable standard consisting of linear and branched PFOS isomers. These practices are in line with recommendations in the National Environmental Management Plan for PFAS (Australian HEPA) and also conform to QSM 5.3 (US DoD) requirements.

DRAFT

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH109_0.2	BUR_BH109_0.5	BUR_BH109_1.0	BUR_BH109_3.0	BUR_BH111_0.2
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-001	ES2146990-002	ES2146990-003	ES2146990-004	ES2146990-005
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	18.5	23.3	23.3	8.9	13.1
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Asbestos Detected	1332-21-4	0.1	g/kg	No	----	----	----	----
Asbestos (Trace)	1332-21-4	5	Fibres	No	----	----	----	----
Asbestos Type	1332-21-4	-	--	-	----	----	----	----
Synthetic Mineral Fibre	----	0.1	g/kg	No	----	----	----	----
Organic Fibre	----	0.1	g/kg	No	----	----	----	----
Sample weight (dry)	----	0.01	g	95.0	----	----	----	----
APPROVED IDENTIFIER:	----	-	--	A. SMYLIE	----	----	----	----
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	<5	9	16	12	<5
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg	5	26	16	8	13
Copper	7440-50-8	5	mg/kg	19	19	6	28	34
Lead	7439-92-1	5	mg/kg	48	100	16	12	80
Nickel	7440-02-0	2	mg/kg	8	6	<2	2	8
Zinc	7440-66-6	5	mg/kg	34	68	<5	13	86
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	0.2	<0.1	<0.1	<0.1
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Total Chlordane (sum)	----	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH109_0.2	BUR_BH109_0.5	BUR_BH109_1.0	BUR_BH109_3.0	BUR_BH111_0.2
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-001	ES2146990-002	ES2146990-003	ES2146990-004	ES2146990-005
				Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued								
Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
EP068B: Organophosphorus Pesticides (OP)								
Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
EP074A: Monocyclic Aromatic Hydrocarbons								

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Analytical Results

Sub-Matrix: **SOIL** (Matrix: **SOIL**)

Compound	CAS Number	LOR	Unit	Sample ID	BUR_BH109_0.2	BUR_BH109_0.5	BUR_BH109_1.0	BUR_BH109_3.0	BUR_BH111_0.2
				Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
					ES2146990-001	ES2146990-002	ES2146990-003	ES2146990-004	ES2146990-005
					Result	Result	Result	Result	Result
EP074A: Monocyclic Aromatic Hydrocarbons - Continued									
Styrene	100-42-5	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
Isopropylbenzene	98-82-8	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
n-Propylbenzene	103-65-1	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
sec-Butylbenzene	135-98-8	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
tert-Butylbenzene	98-06-6	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
p-Isopropyltoluene	99-87-6	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
n-Butylbenzene	104-51-8	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
EP074B: Oxygenated Compounds									
Vinyl Acetate	108-05-4	5	mg/kg		<5	----	<5	----	<5
2-Butanone (MEK)	78-93-3	5	mg/kg		<5	----	<5	----	<5
4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg		<5	----	<5	----	<5
2-Hexanone (MBK)	591-78-6	5	mg/kg		<5	----	<5	----	<5
EP074C: Sulfonated Compounds									
Carbon disulfide	75-15-0	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
EP074D: Fumigants									
2.2-Dichloropropane	594-20-7	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
1.2-Dichloropropane	78-87-5	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
EP074E: Halogenated Aliphatic Compounds									
Dichlorodifluoromethane	75-71-8	5	mg/kg		<5	----	<5	----	<5
Chloromethane	74-87-3	5	mg/kg		<5	----	<5	----	<5
Vinyl chloride	75-01-4	5	mg/kg		<5	----	<5	----	<5
Bromomethane	74-83-9	5	mg/kg		<5	----	<5	----	<5
Chloroethane	75-00-3	5	mg/kg		<5	----	<5	----	<5
Trichlorofluoromethane	75-69-4	5	mg/kg		<5	----	<5	----	<5
1.1-Dichloroethene	75-35-4	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
Iodomethane	74-88-4	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
1.1-Dichloroethane	75-34-3	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg		<0.5	----	<0.5	----	<0.5

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH109_0.2	BUR_BH109_0.5	BUR_BH109_1.0	BUR_BH109_3.0	BUR_BH111_0.2
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-001	ES2146990-002	ES2146990-003	ES2146990-004	ES2146990-005
				Result	Result	Result	Result	Result
EP074E: Halogenated Aliphatic Compounds - Continued								
1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.1-Dichloropropylene	563-58-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Carbon Tetrachloride	56-23-5	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.2-Dichloroethane	107-06-2	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Trichloroethene	79-01-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Dibromomethane	74-95-3	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.3-Dichloropropane	142-28-9	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Tetrachloroethene	127-18-4	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Pentachloroethane	76-01-7	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
EP074F: Halogenated Aromatic Compounds								
Chlorobenzene	108-90-7	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Bromobenzene	108-86-1	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
2-Chlorotoluene	95-49-8	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
4-Chlorotoluene	106-43-4	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
EP074G: Trihalomethanes								
Chloroform	67-66-3	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Bromodichloromethane	75-27-4	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Dibromochloromethane	124-48-1	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Bromoform	75-25-2	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
EP074H: Naphthalene								
Naphthalene	91-20-3	1	mg/kg	<1	----	<1	----	<1

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH109_0.2	BUR_BH109_0.5	BUR_BH109_1.0	BUR_BH109_3.0	BUR_BH111_0.2
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-001	ES2146990-002	ES2146990-003	ES2146990-004	ES2146990-005
				Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	**0.6**
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	**0.6**
Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	**0.9**
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	**2.1**
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	**1.2**	**1.2**	**1.2**	**1.2**	**1.2**
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	10	mg/kg	<10	<10	<10	<10	<10
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
C15 - C28 Fraction	----	100	mg/kg	**110**	<100	<100	<100	<100
C29 - C36 Fraction	----	100	mg/kg	**330**	<100	<100	<100	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg	**440**	<50	<50	<50	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	<10	<10	<10
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	<10	<10	<10	<10
>C10 - C16 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
>C16 - C34 Fraction	----	100	mg/kg	**300**	<100	<100	<100	<100
>C34 - C40 Fraction	----	100	mg/kg	**380**	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	**680**	<50	<50	<50	<50

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BUR_BH109_0.2	BUR_BH109_0.5	BUR_BH109_1.0	BUR_BH109_3.0	BUR_BH111_0.2
				Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
Compound	CAS Number	LOR	Unit		ES2146990-001	ES2146990-002	ES2146990-003	ES2146990-004	ES2146990-005
					Result	Result	Result	Result	Result
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued									
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		<50	<50	<50	<50	<50
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of BTEX	----	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
^ Total Xylenes	----	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	91-20-3	1	mg/kg		<1	<1	<1	<1	<1
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	5.0	µg/kg		<5.0	----	----	<5.0	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	5.0	µg/kg		<5.0	----	----	<5.0	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	5.0	µg/kg		<5.0	----	----	<5.0	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	5.0	µg/kg		<5.0	----	----	<5.0	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	5.0	µg/kg		<5.0	----	----	<5.0	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	5.0	µg/kg		<5.0	----	----	<5.0	----
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	5	µg/kg		<5	----	----	<5	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	5.0	µg/kg		<5.0	----	----	<5.0	----
Perfluorohexanoic acid (PFHxA)	307-24-4	5.0	µg/kg		<5.0	----	----	<5.0	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	5.0	µg/kg		<5.0	----	----	<5.0	----
Perfluorooctanoic acid (PFOA)	335-67-1	5.0	µg/kg		<5.0	----	----	<5.0	----
Perfluorononanoic acid (PFNA)	375-95-1	5.0	µg/kg		<5.0	----	----	<5.0	----
Perfluorodecanoic acid (PFDA)	335-76-2	5.0	µg/kg		<5.0	----	----	<5.0	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	5.0	µg/kg		<5.0	----	----	<5.0	----

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH109_0.2	BUR_BH109_0.5	BUR_BH109_1.0	BUR_BH109_3.0	BUR_BH111_0.2
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-001	ES2146990-002	ES2146990-003	ES2146990-004	ES2146990-005
				Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorododecanoic acid (PFDoDA)	307-55-1	5.0	µg/kg	<5.0	----	----	<5.0	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	5.0	µg/kg	<5.0	----	----	<5.0	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	5.0	µg/kg	<5.0	----	----	<5.0	----
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	5.0	µg/kg	<5.0	----	----	<5.0	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	5.0	µg/kg	<5.0	----	----	<5.0	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	5.0	µg/kg	<5.0	----	----	<5.0	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	5.0	µg/kg	<5.0	----	----	<5.0	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	5.0	µg/kg	<5.0	----	----	<5.0	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	5.0	µg/kg	<5.0	----	----	<5.0	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	5.0	µg/kg	<5.0	----	----	<5.0	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	5.0	µg/kg	<5.0	----	----	<5.0	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	5.0	µg/kg	<5.0	----	----	<5.0	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	5.0	µg/kg	<5.0	----	----	<5.0	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	5.0	µg/kg	<5.0	----	----	<5.0	----
EP231P: PFAS Sums								
Sum of PFAS	----	5.0	µg/kg	<5.0	----	----	<5.0	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	5.0	µg/kg	<5.0	----	----	<5.0	----

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH109_0.2	BUR_BH109_0.5	BUR_BH109_1.0	BUR_BH109_3.0	BUR_BH111_0.2
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-001	ES2146990-002	ES2146990-003	ES2146990-004	ES2146990-005
				Result	Result	Result	Result	Result
EP231P: PFAS Sums - Continued								
Sum of PFAS (WA DER List)	----	5.0	µg/kg	<5.0	----	----	<5.0	----
EP066S: PCB Surrogate								
Decachlorobiphenyl	2051-24-3	0.1	%	103	116	123	116	126
EP068S: Organochlorine Pesticide Surrogate								
Dibromo-DDE	21655-73-2	0.05	%	94.0	116	118	108	116
EP068T: Organophosphorus Pesticide Surrogate								
DEF	78-48-8	0.05	%	111	117	91.4	82.3	123
EP074S: VOC Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.5	%	84.5	----	95.0	----	103
Toluene-D8	2037-26-5	0.5	%	94.5	----	99.9	----	100
4-Bromofluorobenzene	460-00-4	0.5	%	88.5	----	99.9	----	100
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.5	%	81.8	80.4	82.5	88.6	82.6
2-Chlorophenol-D4	93951-73-6	0.5	%	84.2	82.4	82.5	92.3	86.1
2.4.6-Tribromophenol	118-79-6	0.5	%	62.8	73.0	70.8	82.1	72.9
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.5	%	90.9	93.6	89.1	106	98.3
Anthracene-d10	1719-06-8	0.5	%	109	91.3	106	105	109
4-Terphenyl-d14	1718-51-0	0.5	%	102	104	98.1	106	101
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	82.2	77.9	92.6	105	100
Toluene-D8	2037-26-5	0.2	%	85.9	80.4	90.8	111	91.0
4-Bromofluorobenzene	460-00-4	0.2	%	81.3	76.3	92.0	86.2	93.0
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	93.5	----	----	63.5	----
13C8-PFOA	----	0.0002	%	104	----	----	106	----

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Analytical Results

Sub-Matrix: **SOIL**
(Matrix: **SOIL**)

Compound	CAS Number	LOR	Unit	Sample ID	BUR_BH111_0.5	D05_20211220	BUR_BH111_2.0	BUR_BH111_5.0	BUR_BH110_0.2
				Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
					ES2146990-006	ES2146990-007	ES2146990-008	ES2146990-009	ES2146990-010
					Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%		**25.2**	**28.4**	**14.5**	**9.5**	**14.5**
EG005(ED093)T: Total Metals by ICP-AES									
Arsenic	7440-38-2	5	mg/kg		**6**	**8**	<5	**11**	<5
Cadmium	7440-43-9	1	mg/kg		<1	<1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg		**17**	**18**	**4**	**10**	**9**
Copper	7440-50-8	5	mg/kg		**59**	**23**	**11**	**30**	**34**
Lead	7439-92-1	5	mg/kg		**118**	**54**	**16**	**18**	**131**
Nickel	7440-02-0	2	mg/kg		**7**	**5**	<2	**5**	**9**
Zinc	7440-66-6	5	mg/kg		**108**	**30**	<5	**28**	**99**
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg		**0.3**	<0.1	<0.1	<0.1	**0.1**
EP066: Polychlorinated Biphenyls (PCB)									
Total Polychlorinated biphenyls	----	0.1	mg/kg		<0.1	<0.1	<0.1	<0.1	**0.3**
EP068A: Organochlorine Pesticides (OC)									
alpha-BHC	319-84-6	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
beta-BHC	319-85-7	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
gamma-BHC	58-89-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
delta-BHC	319-86-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor	76-44-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
^ **Total Chlordane (sum)**	----	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
trans-Chlordane	5103-74-2	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
alpha-Endosulfan	959-98-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
cis-Chlordane	5103-71-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Dieldrin	60-57-1	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDE	72-55-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	72-20-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
beta-Endosulfan	33213-65-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
^ **Endosulfan (sum)**	115-29-7	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDD	72-54-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH111_0.5	D05_20211220	BUR_BH111_2.0	BUR_BH111_5.0	BUR_BH110_0.2
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-006	ES2146990-007	ES2146990-008	ES2146990-009	ES2146990-010
				Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued								
4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
EP068B: Organophosphorus Pesticides (OP)								
Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
EP074A: Monocyclic Aromatic Hydrocarbons								
Styrene	100-42-5	0.5	mg/kg	----	----	<0.5	----	<0.5
Isopropylbenzene	98-82-8	0.5	mg/kg	----	----	<0.5	----	<0.5
n-Propylbenzene	103-65-1	0.5	mg/kg	----	----	<0.5	----	<0.5
1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	----	----	<0.5	----	<0.5
sec-Butylbenzene	135-98-8	0.5	mg/kg	----	----	<0.5	----	<0.5
1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	----	----	<0.5	----	<0.5
tert-Butylbenzene	98-06-6	0.5	mg/kg	----	----	<0.5	----	<0.5
p-Isopropyltoluene	99-87-6	0.5	mg/kg	----	----	<0.5	----	<0.5

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH111_0.5	D05_20211220	BUR_BH111_2.0	BUR_BH111_5.0	BUR_BH110_0.2
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-006	ES2146990-007	ES2146990-008	ES2146990-009	ES2146990-010
				Result	Result	Result	Result	Result
EP074A: Monocyclic Aromatic Hydrocarbons - Continued								
n-Butylbenzene	104-51-8	0.5	mg/kg	----	----	<0.5	----	<0.5
EP074B: Oxygenated Compounds								
Vinyl Acetate	108-05-4	5	mg/kg	----	----	<5	----	<5
2-Butanone (MEK)	78-93-3	5	mg/kg	----	----	<5	----	<5
4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	----	----	<5	----	<5
2-Hexanone (MBK)	591-78-6	5	mg/kg	----	----	<5	----	<5
EP074C: Sulfonated Compounds								
Carbon disulfide	75-15-0	0.5	mg/kg	----	----	<0.5	----	<0.5
EP074D: Fumigants								
2.2-Dichloropropane	594-20-7	0.5	mg/kg	----	----	<0.5	----	<0.5
1.2-Dichloropropane	78-87-5	0.5	mg/kg	----	----	<0.5	----	<0.5
cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	----	----	<0.5	----	<0.5
trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	----	----	<0.5	----	<0.5
1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	----	----	<0.5	----	<0.5
EP074E: Halogenated Aliphatic Compounds								
Dichlorodifluoromethane	75-71-8	5	mg/kg	----	----	<5	----	<5
Chloromethane	74-87-3	5	mg/kg	----	----	<5	----	<5
Vinyl chloride	75-01-4	5	mg/kg	----	----	<5	----	<5
Bromomethane	74-83-9	5	mg/kg	----	----	<5	----	<5
Chloroethane	75-00-3	5	mg/kg	----	----	<5	----	<5
Trichlorofluoromethane	75-69-4	5	mg/kg	----	----	<5	----	<5
1.1-Dichloroethene	75-35-4	0.5	mg/kg	----	----	<0.5	----	<0.5
Iodomethane	74-88-4	0.5	mg/kg	----	----	<0.5	----	<0.5
trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	----	----	<0.5	----	<0.5
1.1-Dichloroethane	75-34-3	0.5	mg/kg	----	----	<0.5	----	<0.5
cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	----	----	<0.5	----	<0.5
1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	----	----	<0.5	----	<0.5
1.1-Dichloropropylene	563-58-6	0.5	mg/kg	----	----	<0.5	----	<0.5
Carbon Tetrachloride	56-23-5	0.5	mg/kg	----	----	<0.5	----	<0.5
1.2-Dichloroethane	107-06-2	0.5	mg/kg	----	----	<0.5	----	<0.5
Trichloroethene	79-01-6	0.5	mg/kg	----	----	<0.5	----	<0.5
Dibromomethane	74-95-3	0.5	mg/kg	----	----	<0.5	----	<0.5
1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	----	----	<0.5	----	<0.5
1.3-Dichloropropane	142-28-9	0.5	mg/kg	----	----	<0.5	----	<0.5

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH111_0.5	D05_20211220	BUR_BH111_2.0	BUR_BH111_5.0	BUR_BH110_0.2
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-006	ES2146990-007	ES2146990-008	ES2146990-009	ES2146990-010
				Result	Result	Result	Result	Result
EP074E: Halogenated Aliphatic Compounds - Continued								
Tetrachloroethene	127-18-4	0.5	mg/kg	----	----	<0.5	----	<0.5
1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	----	----	<0.5	----	<0.5
trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	----	----	<0.5	----	<0.5
cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	----	----	<0.5	----	<0.5
1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	----	----	<0.5	----	<0.5
1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	----	----	<0.5	----	<0.5
Pentachloroethane	76-01-7	0.5	mg/kg	----	----	<0.5	----	<0.5
1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	----	----	<0.5	----	<0.5
Hexachlorobutadiene	87-68-3	0.5	mg/kg	----	----	<0.5	----	<0.5
EP074F: Halogenated Aromatic Compounds								
Chlorobenzene	108-90-7	0.5	mg/kg	----	----	<0.5	----	<0.5
Bromobenzene	108-86-1	0.5	mg/kg	----	----	<0.5	----	<0.5
2-Chlorotoluene	95-49-8	0.5	mg/kg	----	----	<0.5	----	<0.5
4-Chlorotoluene	106-43-4	0.5	mg/kg	----	----	<0.5	----	<0.5
1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	----	----	<0.5	----	<0.5
1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	----	----	<0.5	----	<0.5
1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	----	----	<0.5	----	<0.5
1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	----	----	<0.5	----	<0.5
1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	----	----	<0.5	----	<0.5
EP074G: Trihalomethanes								
Chloroform	67-66-3	0.5	mg/kg	----	----	<0.5	----	<0.5
Bromodichloromethane	75-27-4	0.5	mg/kg	----	----	<0.5	----	<0.5
Dibromochloromethane	124-48-1	0.5	mg/kg	----	----	<0.5	----	<0.5
Bromoform	75-25-2	0.5	mg/kg	----	----	<0.5	----	<0.5
EP074H: Naphthalene								
Naphthalene	91-20-3	1	mg/kg	----	----	<1	----	<1
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	**0.8**	<0.5	<0.5	<0.5	**0.8**

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH111_0.5	D05_20211220	BUR_BH111_2.0	BUR_BH111_5.0	BUR_BH110_0.2
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-006	ES2146990-007	ES2146990-008	ES2146990-009	ES2146990-010
				Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued								
Pyrene	129-00-0	0.5	mg/kg	**0.8**	<0.5	<0.5	<0.5	**1.0**
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	**0.6**
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	**0.6**
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	**0.8**
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	**0.8**
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	**0.5**
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	**1.6**	<0.5	<0.5	<0.5	**5.1**
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	**1.0**
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	**0.6**	**0.6**	**0.6**	**0.6**	**1.2**
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	**1.2**	**1.2**	**1.2**	**1.2**	**1.6**
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	10	mg/kg	<10	<10	<10	<10	<10
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
C15 - C28 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
C29 - C36 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	<50	<50	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	<10	<10	<10
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	<10	<10	<10	<10
>C10 - C16 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
>C16 - C34 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
>C34 - C40 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	<50	<50	<50
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	<50	<50	<50	<50
EP080: BTEXN								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH111_0.5	D05_20211220	BUR_BH111_2.0	BUR_BH111_5.0	BUR_BH110_0.2
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-006	ES2146990-007	ES2146990-008	ES2146990-009	ES2146990-010
				Result	Result	Result	Result	Result
EP080: BTEXN - Continued								
^ Sum of BTEX	----	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
^ Total Xylenes	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	91-20-3	1	mg/kg	<1	<1	<1	<1	<1
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	5.0	µg/kg	<5.0	<5.0	----	<5.0	<5.0
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	5.0	µg/kg	<5.0	<5.0	----	<5.0	<5.0
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	5.0	µg/kg	<5.0	<5.0	----	<5.0	<5.0
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	5.0	µg/kg	<5.0	<5.0	----	<5.0	<5.0
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	5.0	µg/kg	<5.0	<5.0	----	<5.0	<5.0
Perfluorodecane sulfonic acid (PFDS)	335-77-3	5.0	µg/kg	<5.0	<5.0	----	<5.0	<5.0
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	5	µg/kg	<5	<5	----	<5	<5
Perfluoropentanoic acid (PFPeA)	2706-90-3	5.0	µg/kg	<5.0	<5.0	----	<5.0	<5.0
Perfluorohexanoic acid (PFHxA)	307-24-4	5.0	µg/kg	<5.0	<5.0	----	<5.0	<5.0
Perfluoroheptanoic acid (PFHpA)	375-85-9	5.0	µg/kg	<5.0	<5.0	----	<5.0	<5.0
Perfluorooctanoic acid (PFOA)	335-67-1	5.0	µg/kg	<5.0	<5.0	----	<5.0	<5.0
Perfluorononanoic acid (PFNA)	375-95-1	5.0	µg/kg	<5.0	<5.0	----	<5.0	<5.0
Perfluorodecanoic acid (PFDA)	335-76-2	5.0	µg/kg	<5.0	<5.0	----	<5.0	<5.0
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	5.0	µg/kg	<5.0	<5.0	----	<5.0	<5.0
Perfluorododecanoic acid (PFDoDA)	307-55-1	5.0	µg/kg	<5.0	<5.0	----	<5.0	<5.0
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	5.0	µg/kg	<5.0	<5.0	----	<5.0	<5.0
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	5.0	µg/kg	<5.0	<5.0	----	<5.0	<5.0
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	5.0	µg/kg	<5.0	<5.0	----	<5.0	<5.0

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH111_0.5	D05_20211220	BUR_BH111_2.0	BUR_BH111_5.0	BUR_BH110_0.2
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-006	ES2146990-007	ES2146990-008	ES2146990-009	ES2146990-010
				Result	Result	Result	Result	Result
EP231C: Perfluoroalkyl Sulfonamides - Continued								
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	5.0	µg/kg	<5.0	<5.0	----	<5.0	<5.0
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	5.0	µg/kg	<5.0	<5.0	----	<5.0	<5.0
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	5.0	µg/kg	<5.0	<5.0	----	<5.0	<5.0
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	5.0	µg/kg	<5.0	<5.0	----	<5.0	<5.0
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	5.0	µg/kg	<5.0	<5.0	----	<5.0	<5.0
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	5.0	µg/kg	<5.0	<5.0	----	<5.0	<5.0
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	5.0	µg/kg	<5.0	<5.0	----	<5.0	<5.0
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	5.0	µg/kg	<5.0	<5.0	----	<5.0	<5.0
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	5.0	µg/kg	<5.0	<5.0	----	<5.0	<5.0
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	5.0	µg/kg	<5.0	<5.0	----	<5.0	<5.0
EP231P: PFAS Sums								
Sum of PFAS	----	5.0	µg/kg	<5.0	<5.0	----	<5.0	<5.0
Sum of PFHxS and PFOS	355-46-4/1763-23-1	5.0	µg/kg	<5.0	<5.0	----	<5.0	<5.0
Sum of PFAS (WA DER List)	----	5.0	µg/kg	<5.0	<5.0	----	<5.0	<5.0
EP066S: PCB Surrogate								
Decachlorobiphenyl	2051-24-3	0.1	%	**86.2**	**80.4**	**113**	**103**	**106**
EP068S: Organochlorine Pesticide Surrogate								
Dibromo-DDE	21655-73-2	0.05	%	**88.6**	**100**	**101**	**85.7**	**105**
EP068T: Organophosphorus Pesticide Surrogate								
DEF	78-48-8	0.05	%	**88.3**	**95.8**	**91.1**	**87.3**	**103**
EP074S: VOC Surrogates								

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Analytical Results

Sub-Matrix: **SOIL**
(Matrix: **SOIL**)

Compound	CAS Number	LOR	Unit	Sample ID	BUR_BH111_0.5	D05_20211220	BUR_BH111_2.0	BUR_BH111_5.0	BUR_BH110_0.2
				Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
					ES2146990-006	ES2146990-007	ES2146990-008	ES2146990-009	ES2146990-010
					Result	Result	Result	Result	Result
EP074S: VOC Surrogates - Continued									
1.2-Dichloroethane-D4	17060-07-0	0.5	%		----	----	85.9	----	95.4
Toluene-D8	2037-26-5	0.5	%		----	----	97.8	----	97.4
4-Bromofluorobenzene	460-00-4	0.5	%		----	----	93.5	----	96.9
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%		82.5	82.1	81.4	81.9	81.2
2-Chlorophenol-D4	93951-73-6	0.5	%		81.6	85.1	83.1	82.3	79.9
2.4.6-Tribromophenol	118-79-6	0.5	%		71.0	74.3	71.0	68.8	70.0
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%		91.4	103	93.3	91.2	90.9
Anthracene-d10	1719-06-8	0.5	%		103	110	106	107	103
4-Terphenyl-d14	1718-51-0	0.5	%		100	108	86.5	111	100
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	0.2	%		93.4	86.0	83.6	96.8	92.3
Toluene-D8	2037-26-5	0.2	%		99.1	86.5	88.7	102	88.5
4-Bromofluorobenzene	460-00-4	0.2	%		79.2	70.8	86.3	82.6	89.2
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.0002	%		98.5	78.5	----	100	106
13C8-PFOA	----	0.0002	%		99.0	103	----	104	99.5

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Analytical Results

Sub-Matrix: **SOIL**
(Matrix: **SOIL**)

Compound	CAS Number	LOR	Unit	Sample ID	BUR_BH110_0.5	BUR_BH110_1.0	BUR_BH110_5.0	BUR_BH113_0.2	BUR_BH113_1.0
				Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
					ES2146990-011	ES2146990-012	ES2146990-013	ES2146990-014	ES2146990-015
					Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%		30.5	21.9	7.0	19.4	19.6
EA200: AS 4964 - 2004 Identification of Asbestos in Soils									
Asbestos Detected	1332-21-4	0.1	g/kg		----	----	----	No	----
Asbestos (Trace)	1332-21-4	5	Fibres		----	----	----	No	----
Asbestos Type	1332-21-4	-	--		----	----	----	-	----
Synthetic Mineral Fibre	----	0.1	g/kg		----	----	----	No	----
Organic Fibre	----	0.1	g/kg		----	----	----	No	----
Sample weight (dry)	----	0.01	g		----	----	----	323	----
APPROVED IDENTIFIER:	----	-	--		----	----	----	A. SMYLIE	----
EG005(ED093)T: Total Metals by ICP-AES									
Arsenic	7440-38-2	5	mg/kg		12	6	9	6	5
Cadmium	7440-43-9	1	mg/kg		<1	<1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg		38	12	16	13	8
Copper	7440-50-8	5	mg/kg		10	8	44	9	15
Lead	7439-92-1	5	mg/kg		34	18	24	27	19
Nickel	7440-02-0	2	mg/kg		8	<2	56	<2	<2
Zinc	7440-66-6	5	mg/kg		7	<5	273	22	10
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg		<0.1	<0.1	<0.1	<0.1	<0.1
EP066: Polychlorinated Biphenyls (PCB)									
Total Polychlorinated biphenyls	----	0.1	mg/kg		<0.1	<0.1	<0.1	<0.1	<0.1
EP068A: Organochlorine Pesticides (OC)									
alpha-BHC	319-84-6	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
beta-BHC	319-85-7	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
gamma-BHC	58-89-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
delta-BHC	319-86-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor	76-44-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
^ Total Chlordane (sum)	----	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
trans-Chlordane	5103-74-2	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
alpha-Endosulfan	959-98-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
cis-Chlordane	5103-71-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH110_0.5	BUR_BH110_1.0	BUR_BH110_5.0	BUR_BH113_0.2	BUR_BH113_1.0
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-011	ES2146990-012	ES2146990-013	ES2146990-014	ES2146990-015
				Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued								
Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-29-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
EP068B: Organophosphorus Pesticides (OP)								
Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
EP074A: Monocyclic Aromatic Hydrocarbons								

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Analytical Results

Sub-Matrix: **SOIL**
(Matrix: **SOIL**)

Compound	CAS Number	LOR	Unit	Sample ID	BUR_BH110_0.5	BUR_BH110_1.0	BUR_BH110_5.0	BUR_BH113_0.2	BUR_BH113_1.0
				Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
					ES2146990-011	ES2146990-012	ES2146990-013	ES2146990-014	ES2146990-015
					Result	Result	Result	Result	Result
EP074A: Monocyclic Aromatic Hydrocarbons - Continued									
Styrene	100-42-5	0.5	mg/kg		----	<0.5	----	<0.5	----
Isopropylbenzene	98-82-8	0.5	mg/kg		----	<0.5	----	<0.5	----
n-Propylbenzene	103-65-1	0.5	mg/kg		----	<0.5	----	<0.5	----
1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg		----	<0.5	----	<0.5	----
sec-Butylbenzene	135-98-8	0.5	mg/kg		----	<0.5	----	<0.5	----
1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg		----	<0.5	----	<0.5	----
tert-Butylbenzene	98-06-6	0.5	mg/kg		----	<0.5	----	<0.5	----
p-Isopropyltoluene	99-87-6	0.5	mg/kg		----	<0.5	----	<0.5	----
n-Butylbenzene	104-51-8	0.5	mg/kg		----	<0.5	----	<0.5	----
EP074B: Oxygenated Compounds									
Vinyl Acetate	108-05-4	5	mg/kg		----	<5	----	<5	----
2-Butanone (MEK)	78-93-3	5	mg/kg		----	<5	----	<5	----
4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg		----	<5	----	<5	----
2-Hexanone (MBK)	591-78-6	5	mg/kg		----	<5	----	<5	----
EP074C: Sulfonated Compounds									
Carbon disulfide	75-15-0	0.5	mg/kg		----	<0.5	----	<0.5	----
EP074D: Fumigants									
2.2-Dichloropropane	594-20-7	0.5	mg/kg		----	<0.5	----	<0.5	----
1.2-Dichloropropane	78-87-5	0.5	mg/kg		----	<0.5	----	<0.5	----
cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg		----	<0.5	----	<0.5	----
trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg		----	<0.5	----	<0.5	----
1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg		----	<0.5	----	<0.5	----
EP074E: Halogenated Aliphatic Compounds									
Dichlorodifluoromethane	75-71-8	5	mg/kg		----	<5	----	<5	----
Chloromethane	74-87-3	5	mg/kg		----	<5	----	<5	----
Vinyl chloride	75-01-4	5	mg/kg		----	<5	----	<5	----
Bromomethane	74-83-9	5	mg/kg		----	<5	----	<5	----
Chloroethane	75-00-3	5	mg/kg		----	<5	----	<5	----
Trichlorofluoromethane	75-69-4	5	mg/kg		----	<5	----	<5	----
1.1-Dichloroethene	75-35-4	0.5	mg/kg		----	<0.5	----	<0.5	----
Iodomethane	74-88-4	0.5	mg/kg		----	<0.5	----	<0.5	----
trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg		----	<0.5	----	<0.5	----
1.1-Dichloroethane	75-34-3	0.5	mg/kg		----	<0.5	----	<0.5	----
cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg		----	<0.5	----	<0.5	----

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH110_0.5	BUR_BH110_1.0	BUR_BH110_5.0	BUR_BH113_0.2	BUR_BH113_1.0
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-011	ES2146990-012	ES2146990-013	ES2146990-014	ES2146990-015
				Result	Result	Result	Result	Result
EP074E: Halogenated Aliphatic Compounds - Continued								
1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	----	<0.5	----	<0.5	----
1.1-Dichloropropylene	563-58-6	0.5	mg/kg	----	<0.5	----	<0.5	----
Carbon Tetrachloride	56-23-5	0.5	mg/kg	----	<0.5	----	<0.5	----
1.2-Dichloroethane	107-06-2	0.5	mg/kg	----	<0.5	----	<0.5	----
Trichloroethene	79-01-6	0.5	mg/kg	----	<0.5	----	<0.5	----
Dibromomethane	74-95-3	0.5	mg/kg	----	<0.5	----	<0.5	----
1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	----	<0.5	----	<0.5	----
1.3-Dichloropropane	142-28-9	0.5	mg/kg	----	<0.5	----	<0.5	----
Tetrachloroethene	127-18-4	0.5	mg/kg	----	<0.5	----	<0.5	----
1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	----	<0.5	----	<0.5	----
trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	----	<0.5	----	<0.5	----
cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	----	<0.5	----	<0.5	----
1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	----	<0.5	----	<0.5	----
1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	----	<0.5	----	<0.5	----
Pentachloroethane	76-01-7	0.5	mg/kg	----	<0.5	----	<0.5	----
1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	----	<0.5	----	<0.5	----
Hexachlorobutadiene	87-68-3	0.5	mg/kg	----	<0.5	----	<0.5	----
EP074F: Halogenated Aromatic Compounds								
Chlorobenzene	108-90-7	0.5	mg/kg	----	<0.5	----	<0.5	----
Bromobenzene	108-86-1	0.5	mg/kg	----	<0.5	----	<0.5	----
2-Chlorotoluene	95-49-8	0.5	mg/kg	----	<0.5	----	<0.5	----
4-Chlorotoluene	106-43-4	0.5	mg/kg	----	<0.5	----	<0.5	----
1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	----	<0.5	----	<0.5	----
1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	----	<0.5	----	<0.5	----
1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	----	<0.5	----	<0.5	----
1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	----	<0.5	----	<0.5	----
1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	----	<0.5	----	<0.5	----
EP074G: Trihalomethanes								
Chloroform	67-66-3	0.5	mg/kg	----	<0.5	----	<0.5	----
Bromodichloromethane	75-27-4	0.5	mg/kg	----	<0.5	----	<0.5	----
Dibromochloromethane	124-48-1	0.5	mg/kg	----	<0.5	----	<0.5	----
Bromoform	75-25-2	0.5	mg/kg	----	<0.5	----	<0.5	----
EP074H: Naphthalene								
Naphthalene	91-20-3	1	mg/kg	----	<1	----	<1	----

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH110_0.5	BUR_BH110_1.0	BUR_BH110_5.0	BUR_BH113_0.2	BUR_BH113_1.0
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-011	ES2146990-012	ES2146990-013	ES2146990-014	ES2146990-015
				Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	**1.2**	**1.2**	**1.2**	**1.2**	**1.2**
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	10	mg/kg	<10	<10	<10	<10	<10
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
C15 - C28 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
C29 - C36 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	<50	<50	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	<10	<10	<10
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	<10	<10	<10	<10
>C10 - C16 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
>C16 - C34 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
>C34 - C40 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	<50	<50	<50

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BUR_BH110_0.5	BUR_BH110_1.0	BUR_BH110_5.0	BUR_BH113_0.2	BUR_BH113_1.0
				Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
Compound	CAS Number	LOR	Unit		ES2146990-011	ES2146990-012	ES2146990-013	ES2146990-014	ES2146990-015
					Result	Result	Result	Result	Result
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued									
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		<50	<50	<50	<50	<50
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of BTEX	----	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
^ Total Xylenes	----	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	91-20-3	1	mg/kg		<1	<1	<1	<1	<1
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	5.0	µg/kg		----	----	<5.0	<5.0	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	5.0	µg/kg		----	----	<5.0	<5.0	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	5.0	µg/kg		----	----	<5.0	<5.0	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	5.0	µg/kg		----	----	<5.0	<5.0	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	5.0	µg/kg		----	----	<5.0	<5.0	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	5.0	µg/kg		----	----	<5.0	<5.0	----
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	5	µg/kg		----	----	<5	<5	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	5.0	µg/kg		----	----	<5.0	<5.0	----
Perfluorohexanoic acid (PFHxA)	307-24-4	5.0	µg/kg		----	----	<5.0	<5.0	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	5.0	µg/kg		----	----	<5.0	<5.0	----
Perfluorooctanoic acid (PFOA)	335-67-1	5.0	µg/kg		----	----	<5.0	<5.0	----
Perfluorononanoic acid (PFNA)	375-95-1	5.0	µg/kg		----	----	<5.0	<5.0	----
Perfluorodecanoic acid (PFDA)	335-76-2	5.0	µg/kg		----	----	<5.0	<5.0	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	5.0	µg/kg		----	----	<5.0	<5.0	----

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Analytical Results

Sub-Matrix: **SOIL**
(Matrix: **SOIL**)

Compound	CAS Number	LOR	Unit	Sample ID	BUR_BH110_0.5	BUR_BH110_1.0	BUR_BH110_5.0	BUR_BH113_0.2	BUR_BH113_1.0
				Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
					ES2146990-011	ES2146990-012	ES2146990-013	ES2146990-014	ES2146990-015
					Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids - Continued									
Perfluorododecanoic acid (PFDoDA)	307-55-1	5.0	µg/kg		----	----	<5.0	<5.0	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	5.0	µg/kg		----	----	<5.0	<5.0	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	5.0	µg/kg		----	----	<5.0	<5.0	----
EP231C: Perfluoroalkyl Sulfonamides									
Perfluorooctane sulfonamide (FOSA)	754-91-6	5.0	µg/kg		----	----	<5.0	<5.0	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	5.0	µg/kg		----	----	<5.0	<5.0	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	5.0	µg/kg		----	----	<5.0	<5.0	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	5.0	µg/kg		----	----	<5.0	<5.0	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	5.0	µg/kg		----	----	<5.0	<5.0	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	5.0	µg/kg		----	----	<5.0	<5.0	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	5.0	µg/kg		----	----	<5.0	<5.0	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	5.0	µg/kg		----	----	<5.0	<5.0	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	5.0	µg/kg		----	----	<5.0	<5.0	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	5.0	µg/kg		----	----	<5.0	<5.0	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	5.0	µg/kg		----	----	<5.0	<5.0	----
EP231P: PFAS Sums									
Sum of PFAS	----	5.0	µg/kg		----	----	<5.0	<5.0	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	5.0	µg/kg		----	----	<5.0	<5.0	----

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH110_0.5	BUR_BH110_1.0	BUR_BH110_5.0	BUR_BH113_0.2	BUR_BH113_1.0
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-011	ES2146990-012	ES2146990-013	ES2146990-014	ES2146990-015
				Result	Result	Result	Result	Result
EP231P: PFAS Sums - Continued								
Sum of PFAS (WA DER List)	----	5.0	µg/kg	----	----	<5.0	<5.0	----
EP066S: PCB Surrogate								
Decachlorobiphenyl	2051-24-3	0.1	%	94.0	117	108	112	93.6
EP068S: Organochlorine Pesticide Surrogate								
Dibromo-DDE	21655-73-2	0.05	%	113	104	114	122	89.6
EP068T: Organophosphorus Pesticide Surrogate								
DEF	78-48-8	0.05	%	84.5	84.8	92.6	81.1	60.6
EP074S: VOC Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.5	%	----	97.8	----	89.5	----
Toluene-D8	2037-26-5	0.5	%	----	90.7	----	89.4	----
4-Bromofluorobenzene	460-00-4	0.5	%	----	90.6	----	90.9	----
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.5	%	81.1	87.0	85.8	84.6	82.3
2-Chlorophenol-D4	93951-73-6	0.5	%	80.8	88.2	89.5	84.7	81.9
2.4.6-Tribromophenol	118-79-6	0.5	%	65.2	58.5	64.7	67.5	60.8
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.5	%	86.1	85.0	80.4	93.8	90.5
Anthracene-d10	1719-06-8	0.5	%	109	101	103	109	109
4-Terphenyl-d14	1718-51-0	0.5	%	98.6	88.2	92.3	109	93.9
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	88.6	95.0	104	87.2	90.6
Toluene-D8	2037-26-5	0.2	%	95.7	82.5	108	81.2	95.4
4-Bromofluorobenzene	460-00-4	0.2	%	76.0	84.2	88.6	84.2	77.2
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	----	----	99.0	98.0	----
13C8-PFOA	----	0.0002	%	----	----	102	103	----

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Analytical Results

Sub-Matrix: **SOIL**
(Matrix: **SOIL**)

Compound	CAS Number	LOR	Unit	Sample ID	BUR_BH113_2.0	BUR_BH113_5.0	D06__2021220	BUR_BH114_0.2	BUR_BH114_0.5
				Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
					ES2146990-016	ES2146990-017	ES2146990-018	ES2146990-019	ES2146990-020
					Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%		7.0	25.8	<1.0	15.8	15.5
EA200: AS 4964 - 2004 Identification of Asbestos in Soils									
Asbestos Detected	1332-21-4	0.1	g/kg		----	----	----	No	---
Asbestos (Trace)	1332-21-4	5	Fibres		----	----	----	No	---
Asbestos Type	1332-21-4	-	--		----	----	----	-	---
Synthetic Mineral Fibre	----	0.1	g/kg		----	----	----	No	---
Organic Fibre	----	0.1	g/kg		----	----	----	No	---
Sample weight (dry)	----	0.01	g		----	----	----	147	---
APPROVED IDENTIFIER:	----	-	--		----	----	----	A. SMYLIE	---
EG005(ED093)T: Total Metals by ICP-AES									
Arsenic	7440-38-2	5	mg/kg		11	14	<5	<5	<5
Cadmium	7440-43-9	1	mg/kg		<1	<1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg		9	13	6	11	8
Copper	7440-50-8	5	mg/kg		35	56	22	8	10
Lead	7439-92-1	5	mg/kg		18	33	14	19	22
Nickel	7440-02-0	2	mg/kg		7	36	3	<2	<2
Zinc	7440-66-6	5	mg/kg		41	221	20	15	<5
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg		<0.1	<0.1	<0.1	<0.1	<0.1
EP066: Polychlorinated Biphenyls (PCB)									
Total Polychlorinated biphenyls	----	0.1	mg/kg		<0.1	<0.1	<0.1	<0.1	<0.1
EP068A: Organochlorine Pesticides (OC)									
alpha-BHC	319-84-6	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
beta-BHC	319-85-7	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
gamma-BHC	58-89-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
delta-BHC	319-86-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor	76-44-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
^ Total Chlordane (sum)	---	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
trans-Chlordane	5103-74-2	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
alpha-Endosulfan	959-98-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
cis-Chlordane	5103-71-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH113_2.0	BUR_BH113_5.0	D06__2021220	BUR_BH114_0.2	BUR_BH114_0.5
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-016	ES2146990-017	ES2146990-018	ES2146990-019	ES2146990-020
				Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued								
Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
EP068B: Organophosphorus Pesticides (OP)								
Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
EP074A: Monocyclic Aromatic Hydrocarbons								

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Analytical Results

Sub-Matrix: **SOIL**
(Matrix: **SOIL**)

Compound	CAS Number	LOR	Unit	Sample ID	BUR_BH113_2.0	BUR_BH113_5.0	D06__2021220	BUR_BH114_0.2	BUR_BH114_0.5
				Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
					ES2146990-016	ES2146990-017	ES2146990-018	ES2146990-019	ES2146990-020
					Result	Result	Result	Result	Result
EP074A: Monocyclic Aromatic Hydrocarbons - Continued									
Styrene	100-42-5	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
Isopropylbenzene	98-82-8	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
n-Propylbenzene	103-65-1	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
sec-Butylbenzene	135-98-8	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
tert-Butylbenzene	98-06-6	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
p-Isopropyltoluene	99-87-6	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
n-Butylbenzene	104-51-8	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
EP074B: Oxygenated Compounds									
Vinyl Acetate	108-05-4	5	mg/kg		<5	----	<5	----	<5
2-Butanone (MEK)	78-93-3	5	mg/kg		<5	----	<5	----	<5
4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg		<5	----	<5	----	<5
2-Hexanone (MBK)	591-78-6	5	mg/kg		<5	----	<5	----	<5
EP074C: Sulfonated Compounds									
Carbon disulfide	75-15-0	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
EP074D: Fumigants									
2.2-Dichloropropane	594-20-7	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
1.2-Dichloropropane	78-87-5	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
EP074E: Halogenated Aliphatic Compounds									
Dichlorodifluoromethane	75-71-8	5	mg/kg		<5	----	<5	----	<5
Chloromethane	74-87-3	5	mg/kg		<5	----	<5	----	<5
Vinyl chloride	75-01-4	5	mg/kg		<5	----	<5	----	<5
Bromomethane	74-83-9	5	mg/kg		<5	----	<5	----	<5
Chloroethane	75-00-3	5	mg/kg		<5	----	<5	----	<5
Trichlorofluoromethane	75-69-4	5	mg/kg		<5	----	<5	----	<5
1.1-Dichloroethene	75-35-4	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
Iodomethane	74-88-4	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
1.1-Dichloroethane	75-34-3	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg		<0.5	----	<0.5	----	<0.5

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH113_2.0	BUR_BH113_5.0	D06__2021220	BUR_BH114_0.2	BUR_BH114_0.5
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-016	ES2146990-017	ES2146990-018	ES2146990-019	ES2146990-020
				Result	Result	Result	Result	Result
EP074E: Halogenated Aliphatic Compounds - Continued								
1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.1-Dichloropropylene	563-58-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Carbon Tetrachloride	56-23-5	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.2-Dichloroethane	107-06-2	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Trichloroethene	79-01-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Dibromomethane	74-95-3	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.3-Dichloropropane	142-28-9	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Tetrachloroethene	127-18-4	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Pentachloroethane	76-01-7	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
EP074F: Halogenated Aromatic Compounds								
Chlorobenzene	108-90-7	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Bromobenzene	108-86-1	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
2-Chlorotoluene	95-49-8	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
4-Chlorotoluene	106-43-4	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
EP074G: Trihalomethanes								
Chloroform	67-66-3	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Bromodichloromethane	75-27-4	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Dibromochloromethane	124-48-1	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Bromoform	75-25-2	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
EP074H: Naphthalene								
Naphthalene	91-20-3	1	mg/kg	<1	----	<1	----	<1

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH113_2.0	BUR_BH113_5.0	D06__2021220	BUR_BH114_0.2	BUR_BH114_0.5
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-016	ES2146990-017	ES2146990-018	ES2146990-019	ES2146990-020
				Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	**1.2**	**1.2**	**1.2**	**1.2**	**1.2**
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	10	mg/kg	<10	<10	<10	<10	<10
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
C15 - C28 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
C29 - C36 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	<50	<50	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	<10	<10	<10
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	<10	<10	<10	<10
>C10 - C16 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
>C16 - C34 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
>C34 - C40 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	<50	<50	<50

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH113_2.0	BUR_BH113_5.0	D06__2021220	BUR_BH114_0.2	BUR_BH114_0.5
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-016	ES2146990-017	ES2146990-018	ES2146990-019	ES2146990-020
				Result	Result	Result	Result	Result
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued								
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	<50	<50	<50	<50
EP080: BTEXN								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of BTEX	----	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
^ Total Xylenes	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	91-20-3	1	mg/kg	<1	<1	<1	<1	<1
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	5.0	µg/kg	----	<5.0	----	<5.0	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	5.0	µg/kg	----	<5.0	----	<5.0	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	5.0	µg/kg	----	<5.0	----	<5.0	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	5.0	µg/kg	----	<5.0	----	<5.0	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	5.0	µg/kg	----	<5.0	----	<5.0	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	5.0	µg/kg	----	<5.0	----	<5.0	----
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	5	µg/kg	----	<5	----	<5	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	5.0	µg/kg	----	<5.0	----	<5.0	----
Perfluorohexanoic acid (PFHxA)	307-24-4	5.0	µg/kg	----	<5.0	----	<5.0	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	5.0	µg/kg	----	<5.0	----	<5.0	----
Perfluorooctanoic acid (PFOA)	335-67-1	5.0	µg/kg	----	<5.0	----	<5.0	----
Perfluorononanoic acid (PFNA)	375-95-1	5.0	µg/kg	----	<5.0	----	<5.0	----
Perfluorodecanoic acid (PFDA)	335-76-2	5.0	µg/kg	----	<5.0	----	<5.0	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	5.0	µg/kg	----	<5.0	----	<5.0	----

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH113_2.0	BUR_BH113_5.0	D06__2021220	BUR_BH114_0.2	BUR_BH114_0.5
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-016	ES2146990-017	ES2146990-018	ES2146990-019	ES2146990-020
				Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorododecanoic acid (PFDoDA)	307-55-1	5.0	µg/kg	----	<5.0	----	<5.0	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	5.0	µg/kg	----	<5.0	----	<5.0	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	5.0	µg/kg	----	<5.0	----	<5.0	----
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	5.0	µg/kg	----	<5.0	----	<5.0	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	5.0	µg/kg	----	<5.0	----	<5.0	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	5.0	µg/kg	----	<5.0	----	<5.0	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	5.0	µg/kg	----	<5.0	----	<5.0	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	5.0	µg/kg	----	<5.0	----	<5.0	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	5.0	µg/kg	----	<5.0	----	<5.0	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	5.0	µg/kg	----	<5.0	----	<5.0	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	5.0	µg/kg	----	<5.0	----	<5.0	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	5.0	µg/kg	----	<5.0	----	<5.0	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	5.0	µg/kg	----	<5.0	----	<5.0	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	5.0	µg/kg	----	<5.0	----	<5.0	----
EP231P: PFAS Sums								
Sum of PFAS	----	5.0	µg/kg	----	<5.0	----	<5.0	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	5.0	µg/kg	----	<5.0	----	<5.0	----

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH113_2.0	BUR_BH113_5.0	D06__2021220	BUR_BH114_0.2	BUR_BH114_0.5
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-016	ES2146990-017	ES2146990-018	ES2146990-019	ES2146990-020
				Result	Result	Result	Result	Result
EP231P: PFAS Sums - Continued								
Sum of PFAS (WA DER List)	----	5.0	µg/kg	----	<5.0	----	<5.0	----
EP066S: PCB Surrogate								
Decachlorobiphenyl	2051-24-3	0.1	%	110	93.1	101	108	119
EP068S: Organochlorine Pesticide Surrogate								
Dibromo-DDE	21655-73-2	0.05	%	108	123	99.2	111	110
EP068T: Organophosphorus Pesticide Surrogate								
DEF	78-48-8	0.05	%	67.0	98.5	68.3	75.0	76.5
EP074S: VOC Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.5	%	85.6	----	95.2	----	89.9
Toluene-D8	2037-26-5	0.5	%	95.8	----	95.4	----	96.0
4-Bromofluorobenzene	460-00-4	0.5	%	91.0	----	95.6	----	93.8
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.5	%	84.5	85.1	82.6	80.2	85.4
2-Chlorophenol-D4	93951-73-6	0.5	%	83.0	80.7	82.9	83.1	80.6
2.4.6-Tribromophenol	118-79-6	0.5	%	51.1	59.8	59.3	56.4	54.3
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.5	%	90.6	104	95.4	93.3	89.8
Anthracene-d10	1719-06-8	0.5	%	102	107	108	110	106
4-Terphenyl-d14	1718-51-0	0.5	%	90.8	96.4	99.0	98.2	98.8
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	83.4	97.6	92.8	98.7	87.7
Toluene-D8	2037-26-5	0.2	%	87.0	99.8	86.6	99.7	87.2
4-Bromofluorobenzene	460-00-4	0.2	%	84.1	81.6	88.3	82.9	85.9
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	----	104	----	95.0	----
13C8-PFOA	----	0.0002	%	----	108	----	106	----

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH114_5.0	BUR_BH114_10.0	BUR_BH114_15.0	TS 22	BUR_BH115_0.2
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-021	ES2146990-022	ES2146990-023	ES2146990-026	ES2146990-027
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	5.9	11.2	6.3	----	12.0
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Asbestos Detected	1332-21-4	0.1	g/kg	----	----	----	----	No
Asbestos (Trace)	1332-21-4	5	Fibres	----	----	----	----	No
Asbestos Type	1332-21-4	-	--	----	----	----	----	-
Synthetic Mineral Fibre	----	0.1	g/kg	----	----	----	----	No
Organic Fibre	----	0.1	g/kg	----	----	----	----	No
Sample weight (dry)	----	0.01	g	----	----	----	----	432
APPROVED IDENTIFIER:	----	-	--	----	----	----	----	A. SMYLIE
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	11	9	<5	----	9
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	----	<1
Chromium	7440-47-3	2	mg/kg	9	10	9	----	42
Copper	7440-50-8	5	mg/kg	43	13	25	----	76
Lead	7439-92-1	5	mg/kg	26	16	20	----	263
Nickel	7440-02-0	2	mg/kg	44	13	19	----	59
Zinc	7440-66-6	5	mg/kg	190	58	79	----	333
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	----	0.1
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	<0.1	----	<0.1
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
^ Total Chlordane (sum)	----	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH114_5.0	BUR_BH114_10.0	BUR_BH114_15.0	TS 22	BUR_BH115_0.2
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-021	ES2146990-022	ES2146990-023	ES2146990-026	ES2146990-027
				Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued								
Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
^ Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	<0.2	----	<0.2
Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	<0.2	----	<0.2
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
EP068B: Organophosphorus Pesticides (OP)								
Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	<0.2	----	<0.2
Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	<0.2	----	<0.2
Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	<0.2	----	<0.2
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
EP074A: Monocyclic Aromatic Hydrocarbons								

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH114_5.0	BUR_BH114_10.0	BUR_BH114_15.0	TS 22	BUR_BH115_0.2
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-021	ES2146990-022	ES2146990-023	ES2146990-026	ES2146990-027
				Result	Result	Result	Result	Result
EP074A: Monocyclic Aromatic Hydrocarbons - Continued								
Styrene	100-42-5	0.5	mg/kg	----	<0.5	----	----	<0.5
Isopropylbenzene	98-82-8	0.5	mg/kg	----	<0.5	----	----	<0.5
n-Propylbenzene	103-65-1	0.5	mg/kg	----	<0.5	----	----	<0.5
1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	----	<0.5	----	----	<0.5
sec-Butylbenzene	135-98-8	0.5	mg/kg	----	<0.5	----	----	<0.5
1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	----	<0.5	----	----	<0.5
tert-Butylbenzene	98-06-6	0.5	mg/kg	----	<0.5	----	----	<0.5
p-Isopropyltoluene	99-87-6	0.5	mg/kg	----	<0.5	----	----	<0.5
n-Butylbenzene	104-51-8	0.5	mg/kg	----	<0.5	----	----	<0.5
EP074B: Oxygenated Compounds								
Vinyl Acetate	108-05-4	5	mg/kg	----	<5	----	----	<5
2-Butanone (MEK)	78-93-3	5	mg/kg	----	<5	----	----	<5
4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	----	<5	----	----	<5
2-Hexanone (MBK)	591-78-6	5	mg/kg	----	<5	----	----	<5
EP074C: Sulfonated Compounds								
Carbon disulfide	75-15-0	0.5	mg/kg	----	<0.5	----	----	<0.5
EP074D: Fumigants								
2.2-Dichloropropane	594-20-7	0.5	mg/kg	----	<0.5	----	----	<0.5
1.2-Dichloropropane	78-87-5	0.5	mg/kg	----	<0.5	----	----	<0.5
cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	----	<0.5	----	----	<0.5
trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	----	<0.5	----	----	<0.5
1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	----	<0.5	----	----	<0.5
EP074E: Halogenated Aliphatic Compounds								
Dichlorodifluoromethane	75-71-8	5	mg/kg	----	<5	----	----	<5
Chloromethane	74-87-3	5	mg/kg	----	<5	----	----	<5
Vinyl chloride	75-01-4	5	mg/kg	----	<5	----	----	<5
Bromomethane	74-83-9	5	mg/kg	----	<5	----	----	<5
Chloroethane	75-00-3	5	mg/kg	----	<5	----	----	<5
Trichlorofluoromethane	75-69-4	5	mg/kg	----	<5	----	----	<5
1.1-Dichloroethene	75-35-4	0.5	mg/kg	----	<0.5	----	----	<0.5
Iodomethane	74-88-4	0.5	mg/kg	----	<0.5	----	----	<0.5
trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	----	<0.5	----	----	<0.5
1.1-Dichloroethane	75-34-3	0.5	mg/kg	----	<0.5	----	----	<0.5
cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	----	<0.5	----	----	<0.5

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH114_5.0	BUR_BH114_10.0	BUR_BH114_15.0	TS 22	BUR_BH115_0.2
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-021	ES2146990-022	ES2146990-023	ES2146990-026	ES2146990-027
				Result	Result	Result	Result	Result
EP074E: Halogenated Aliphatic Compounds - Continued								
1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	----	<0.5	----	----	<0.5
1.1-Dichloropropylene	563-58-6	0.5	mg/kg	----	<0.5	----	----	<0.5
Carbon Tetrachloride	56-23-5	0.5	mg/kg	----	<0.5	----	----	<0.5
1.2-Dichloroethane	107-06-2	0.5	mg/kg	----	<0.5	----	----	<0.5
Trichloroethene	79-01-6	0.5	mg/kg	----	<0.5	----	----	<0.5
Dibromomethane	74-95-3	0.5	mg/kg	----	<0.5	----	----	<0.5
1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	----	<0.5	----	----	<0.5
1.3-Dichloropropane	142-28-9	0.5	mg/kg	----	<0.5	----	----	<0.5
Tetrachloroethene	127-18-4	0.5	mg/kg	----	<0.5	----	----	<0.5
1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	----	<0.5	----	----	<0.5
trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	----	<0.5	----	----	<0.5
cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	----	<0.5	----	----	<0.5
1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	----	<0.5	----	----	<0.5
1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	----	<0.5	----	----	<0.5
Pentachloroethane	76-01-7	0.5	mg/kg	----	<0.5	----	----	<0.5
1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	----	<0.5	----	----	<0.5
Hexachlorobutadiene	87-68-3	0.5	mg/kg	----	<0.5	----	----	<0.5
EP074F: Halogenated Aromatic Compounds								
Chlorobenzene	108-90-7	0.5	mg/kg	----	<0.5	----	----	<0.5
Bromobenzene	108-86-1	0.5	mg/kg	----	<0.5	----	----	<0.5
2-Chlorotoluene	95-49-8	0.5	mg/kg	----	<0.5	----	----	<0.5
4-Chlorotoluene	106-43-4	0.5	mg/kg	----	<0.5	----	----	<0.5
1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	----	<0.5	----	----	<0.5
1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	----	<0.5	----	----	<0.5
1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	----	<0.5	----	----	<0.5
1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	----	<0.5	----	----	<0.5
1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	----	<0.5	----	----	<0.5
EP074G: Trihalomethanes								
Chloroform	67-66-3	0.5	mg/kg	----	<0.5	----	----	<0.5
Bromodichloromethane	75-27-4	0.5	mg/kg	----	<0.5	----	----	<0.5
Dibromochloromethane	124-48-1	0.5	mg/kg	----	<0.5	----	----	<0.5
Bromoform	75-25-2	0.5	mg/kg	----	<0.5	----	----	<0.5
EP074H: Naphthalene								
Naphthalene	91-20-3	1	mg/kg	----	<1	----	----	<1

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH114_5.0	BUR_BH114_10.0	BUR_BH114_15.0	TS 22	BUR_BH115_0.2
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-021	ES2146990-022	ES2146990-023	ES2146990-026	ES2146990-027
				Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	----	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	<0.5	----	0.6
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	----	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	----	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	<0.5	----	3.6
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	<0.5	----	1.0
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	<0.5	----	7.1
Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	<0.5	----	6.7
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	<0.5	----	3.1
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	<0.5	----	2.5
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	<0.5	----	3.1
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	<0.5	----	1.4
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	<0.5	----	2.6
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	<0.5	----	1.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	<0.5	----	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	<0.5	----	1.7
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	<0.5	----	34.9
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	<0.5	----	3.6
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	0.6	0.6	0.6	----	3.8
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	1.2	1.2	1.2	----	4.0
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	10	mg/kg	16	<10	<10	----	<10
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	----	<50
C15 - C28 Fraction	----	100	mg/kg	180	<100	<100	----	150
C29 - C36 Fraction	----	100	mg/kg	<100	<100	<100	----	150
^ C10 - C36 Fraction (sum)	----	50	mg/kg	180	<50	<50	----	300
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	10	mg/kg	26	<10	<10	----	<10
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	26	<10	<10	----	<10
>C10 - C16 Fraction	----	50	mg/kg	70	<50	<50	----	<50
>C16 - C34 Fraction	----	100	mg/kg	180	<100	<100	----	250
>C34 - C40 Fraction	----	100	mg/kg	<100	<100	<100	----	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	250	<50	<50	----	250

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BUR_BH114_5.0	BUR_BH114_10.0	BUR_BH114_15.0	TS 22	BUR_BH115_0.2
				Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit		ES2146990-021	ES2146990-022	ES2146990-023	ES2146990-026	ES2146990-027
					Result	Result	Result	Result	Result
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued									
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		**70**	<50	<50	----	<50
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg		<0.5	<0.5	<0.5	**17.4**	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	<0.5	<0.5	**2.5**	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	<0.5	<0.5	**15.5**	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	<0.5	<0.5	**5.7**	<0.5
^ Sum of BTEX	----	0.2	mg/kg		<0.2	<0.2	<0.2	**41.1**	<0.2
^ Total Xylenes	----	0.5	mg/kg		<0.5	<0.5	<0.5	**21.2**	<0.5
Naphthalene	91-20-3	1	mg/kg		<1	<1	<1	<1	<1
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	5.0	µg/kg		----	----	<5.0	----	<5.0
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	5.0	µg/kg		----	----	<5.0	----	<5.0
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	5.0	µg/kg		----	----	<5.0	----	<5.0
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	5.0	µg/kg		----	----	<5.0	----	<5.0
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	5.0	µg/kg		----	----	<5.0	----	<5.0
Perfluorodecane sulfonic acid (PFDS)	335-77-3	5.0	µg/kg		----	----	<5.0	----	<5.0
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	5	µg/kg		----	----	<5	----	<5
Perfluoropentanoic acid (PFPeA)	2706-90-3	5.0	µg/kg		----	----	<5.0	----	<5.0
Perfluorohexanoic acid (PFHxA)	307-24-4	5.0	µg/kg		----	----	<5.0	----	<5.0
Perfluoroheptanoic acid (PFHpA)	375-85-9	5.0	µg/kg		----	----	<5.0	----	<5.0
Perfluorooctanoic acid (PFOA)	335-67-1	5.0	µg/kg		----	----	<5.0	----	<5.0
Perfluorononanoic acid (PFNA)	375-95-1	5.0	µg/kg		----	----	<5.0	----	<5.0
Perfluorodecanoic acid (PFDA)	335-76-2	5.0	µg/kg		----	----	<5.0	----	<5.0
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	5.0	µg/kg		----	----	<5.0	----	<5.0

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH114_5.0	BUR_BH114_10.0	BUR_BH114_15.0	TS 22	BUR_BH115_0.2
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-021	ES2146990-022	ES2146990-023	ES2146990-026	ES2146990-027
				Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorododecanoic acid (PFDoDA)	307-55-1	5.0	µg/kg	----	----	<5.0	----	<5.0
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	5.0	µg/kg	----	----	<5.0	----	<5.0
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	5.0	µg/kg	----	----	<5.0	----	<5.0
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	5.0	µg/kg	----	----	<5.0	----	<5.0
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	5.0	µg/kg	----	----	<5.0	----	<5.0
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	5.0	µg/kg	----	----	<5.0	----	<5.0
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	5.0	µg/kg	----	----	<5.0	----	<5.0
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	5.0	µg/kg	----	----	<5.0	----	<5.0
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	5.0	µg/kg	----	----	<5.0	----	<5.0
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	5.0	µg/kg	----	----	<5.0	----	<5.0
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	5.0	µg/kg	----	----	<5.0	----	<5.0
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	5.0	µg/kg	----	----	<5.0	----	<5.0
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	5.0	µg/kg	----	----	<5.0	----	<5.0
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	5.0	µg/kg	----	----	<5.0	----	<5.0
EP231P: PFAS Sums								
Sum of PFAS	---	5.0	µg/kg	----	----	<5.0	----	<5.0
Sum of PFHxS and PFOS	355-46-4/1763-23-1	5.0	µg/kg	----	----	<5.0	----	<5.0

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH114_5.0	BUR_BH114_10.0	BUR_BH114_15.0	TS 22	BUR_BH115_0.2
			Sampling date / time	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-021	ES2146990-022	ES2146990-023	ES2146990-026	ES2146990-027
				Result	Result	Result	Result	Result
EP231P: PFAS Sums - Continued								
Sum of PFAS (WA DER List)	----	5.0	µg/kg	----	----	<5.0	----	<5.0
EP066S: PCB Surrogate								
Decachlorobiphenyl	2051-24-3	0.1	%	104	115	113	----	119
EP068S: Organochlorine Pesticide Surrogate								
Dibromo-DDE	21655-73-2	0.05	%	99.7	117	97.6	----	77.5
EP068T: Organophosphorus Pesticide Surrogate								
DEF	78-48-8	0.05	%	114	111	97.9	----	98.7
EP074S: VOC Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.5	%	----	81.2	----	----	94.9
Toluene-D8	2037-26-5	0.5	%	----	86.9	----	----	88.9
4-Bromofluorobenzene	460-00-4	0.5	%	----	86.6	----	----	90.6
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.5	%	89.8	85.4	79.4	----	88.4
2-Chlorophenol-D4	93951-73-6	0.5	%	95.6	90.9	82.6	----	90.6
2.4.6-Tribromophenol	118-79-6	0.5	%	80.5	79.6	60.4	----	73.4
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.5	%	104	98.2	81.5	----	90.2
Anthracene-d10	1719-06-8	0.5	%	96.6	92.4	86.5	----	92.8
4-Terphenyl-d14	1718-51-0	0.5	%	95.7	93.4	85.1	----	85.6
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	100	79.1	98.0	96.5	92.5
Toluene-D8	2037-26-5	0.2	%	107	78.9	102	99.5	80.7
4-Bromofluorobenzene	460-00-4	0.2	%	87.8	79.1	85.6	90.2	82.7
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	----	----	91.5	----	100
13C8-PFOA	----	0.0002	%	----	----	102	----	103

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Analytical Results

Sub-Matrix: **SOIL**
(Matrix: **SOIL**)

Compound	CAS Number	LOR	Unit	Sample ID	BUR_BH115_0.5	BUR_BH115_1.0	BUR_BH115_5.0	BUR_BH115_10.0	BUR_BH115_15.0
				Sampling date / time	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
					ES2146990-028	ES2146990-029	ES2146990-030	ES2146990-031	ES2146990-032
					Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%		**24.4**	**29.3**	**8.2**	**5.6**	**4.5**
EG005(ED093)T: Total Metals by ICP-AES									
Arsenic	7440-38-2	5	mg/kg		**6**	**5**	**9**	**11**	**8**
Cadmium	7440-43-9	1	mg/kg		<1	<1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg		**20**	**20**	**11**	**16**	**9**
Copper	7440-50-8	5	mg/kg		**42**	**13**	**56**	**34**	**40**
Lead	7439-92-1	5	mg/kg		**4380**	**186**	**19**	**21**	**20**
Nickel	7440-02-0	2	mg/kg		**20**	**3**	**26**	**21**	**24**
Zinc	7440-66-6	5	mg/kg		**280**	**14**	**115**	**79**	**87**
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg		**0.1**	<0.1	<0.1	<0.1	<0.1
EP066: Polychlorinated Biphenyls (PCB)									
Total Polychlorinated biphenyls	----	0.1	mg/kg		<0.1	<0.1	<0.1	<0.1	<0.1
EP068A: Organochlorine Pesticides (OC)									
alpha-BHC	319-84-6	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
beta-BHC	319-85-7	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
gamma-BHC	58-89-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
delta-BHC	319-86-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor	76-44-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
^ **Total Chlordane (sum)**	----	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
trans-Chlordane	5103-74-2	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
alpha-Endosulfan	959-98-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
cis-Chlordane	5103-71-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Dieldrin	60-57-1	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDE	72-55-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	72-20-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
beta-Endosulfan	33213-65-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
^ **Endosulfan (sum)**	115-29-7	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDD	72-54-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH115_0.5	BUR_BH115_1.0	BUR_BH115_5.0	BUR_BH115_10.0	BUR_BH115_15.0
			Sampling date / time	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-028	ES2146990-029	ES2146990-030	ES2146990-031	ES2146990-032
				Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued								
4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
EP068B: Organophosphorus Pesticides (OP)								
Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
EP074A: Monocyclic Aromatic Hydrocarbons								
Styrene	100-42-5	0.5	mg/kg	----	<0.5	----	<0.5	----
Isopropylbenzene	98-82-8	0.5	mg/kg	----	<0.5	----	<0.5	----
n-Propylbenzene	103-65-1	0.5	mg/kg	----	<0.5	----	<0.5	----
1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	----	<0.5	----	<0.5	----
sec-Butylbenzene	135-98-8	0.5	mg/kg	----	<0.5	----	<0.5	----
1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	----	<0.5	----	<0.5	----
tert-Butylbenzene	98-06-6	0.5	mg/kg	----	<0.5	----	<0.5	----
p-Isopropyltoluene	99-87-6	0.5	mg/kg	----	<0.5	----	<0.5	----

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Analytical Results

Sub-Matrix: **SOIL**
(Matrix: **SOIL**)

Compound	CAS Number	LOR	Unit	Sample ID	BUR_BH115_0.5	BUR_BH115_1.0	BUR_BH115_5.0	BUR_BH115_10.0	BUR_BH115_15.0
				Sampling date / time	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
					ES2146990-028	ES2146990-029	ES2146990-030	ES2146990-031	ES2146990-032
					Result	Result	Result	Result	Result
EP074A: Monocyclic Aromatic Hydrocarbons - Continued									
n-Butylbenzene	104-51-8	0.5	mg/kg		----	<0.5	----	<0.5	----
EP074B: Oxygenated Compounds									
Vinyl Acetate	108-05-4	5	mg/kg		----	<5	----	<5	----
2-Butanone (MEK)	78-93-3	5	mg/kg		----	<5	----	<5	----
4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg		----	<5	----	<5	----
2-Hexanone (MBK)	591-78-6	5	mg/kg		----	<5	----	<5	----
EP074C: Sulfonated Compounds									
Carbon disulfide	75-15-0	0.5	mg/kg		----	<0.5	----	<0.5	----
EP074D: Fumigants									
2.2-Dichloropropane	594-20-7	0.5	mg/kg		----	<0.5	----	<0.5	----
1.2-Dichloropropane	78-87-5	0.5	mg/kg		----	<0.5	----	<0.5	----
cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg		----	<0.5	----	<0.5	----
trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg		----	<0.5	----	<0.5	----
1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg		----	<0.5	----	<0.5	----
EP074E: Halogenated Aliphatic Compounds									
Dichlorodifluoromethane	75-71-8	5	mg/kg		----	<5	----	<5	----
Chloromethane	74-87-3	5	mg/kg		----	<5	----	<5	----
Vinyl chloride	75-01-4	5	mg/kg		----	<5	----	<5	----
Bromomethane	74-83-9	5	mg/kg		----	<5	----	<5	----
Chloroethane	75-00-3	5	mg/kg		----	<5	----	<5	----
Trichlorofluoromethane	75-69-4	5	mg/kg		----	<5	----	<5	----
1.1-Dichloroethene	75-35-4	0.5	mg/kg		----	<0.5	----	<0.5	----
Iodomethane	74-88-4	0.5	mg/kg		----	<0.5	----	<0.5	----
trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg		----	<0.5	----	<0.5	----
1.1-Dichloroethane	75-34-3	0.5	mg/kg		----	<0.5	----	<0.5	----
cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg		----	<0.5	----	<0.5	----
1.1.1-Trichloroethane	71-55-6	0.5	mg/kg		----	<0.5	----	<0.5	----
1.1-Dichloropropylene	563-58-6	0.5	mg/kg		----	<0.5	----	<0.5	----
Carbon Tetrachloride	56-23-5	0.5	mg/kg		----	<0.5	----	<0.5	----
1.2-Dichloroethane	107-06-2	0.5	mg/kg		----	<0.5	----	<0.5	----
Trichloroethene	79-01-6	0.5	mg/kg		----	<0.5	----	<0.5	----
Dibromomethane	74-95-3	0.5	mg/kg		----	<0.5	----	<0.5	----
1.1.2-Trichloroethane	79-00-5	0.5	mg/kg		----	<0.5	----	<0.5	----
1.3-Dichloropropane	142-28-9	0.5	mg/kg		----	<0.5	----	<0.5	----

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH115_0.5	BUR_BH115_1.0	BUR_BH115_5.0	BUR_BH115_10.0	BUR_BH115_15.0
			Sampling date / time	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-028	ES2146990-029	ES2146990-030	ES2146990-031	ES2146990-032
				Result	Result	Result	Result	Result
EP074E: Halogenated Aliphatic Compounds - Continued								
Tetrachloroethene	127-18-4	0.5	mg/kg	----	<0.5	----	<0.5	----
1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	----	<0.5	----	<0.5	----
trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	----	<0.5	----	<0.5	----
cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	----	<0.5	----	<0.5	----
1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	----	<0.5	----	<0.5	----
1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	----	<0.5	----	<0.5	----
Pentachloroethane	76-01-7	0.5	mg/kg	----	<0.5	----	<0.5	----
1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	----	<0.5	----	<0.5	----
Hexachlorobutadiene	87-68-3	0.5	mg/kg	----	<0.5	----	<0.5	----
EP074F: Halogenated Aromatic Compounds								
Chlorobenzene	108-90-7	0.5	mg/kg	----	<0.5	----	<0.5	----
Bromobenzene	108-86-1	0.5	mg/kg	----	<0.5	----	<0.5	----
2-Chlorotoluene	95-49-8	0.5	mg/kg	----	<0.5	----	<0.5	----
4-Chlorotoluene	106-43-4	0.5	mg/kg	----	<0.5	----	<0.5	----
1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	----	<0.5	----	<0.5	----
1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	----	<0.5	----	<0.5	----
1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	----	<0.5	----	<0.5	----
1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	----	<0.5	----	<0.5	----
1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	----	<0.5	----	<0.5	----
EP074G: Trihalomethanes								
Chloroform	67-66-3	0.5	mg/kg	----	<0.5	----	<0.5	----
Bromodichloromethane	75-27-4	0.5	mg/kg	----	<0.5	----	<0.5	----
Dibromochloromethane	124-48-1	0.5	mg/kg	----	<0.5	----	<0.5	----
Bromoform	75-25-2	0.5	mg/kg	----	<0.5	----	<0.5	----
EP074H: Naphthalene								
Naphthalene	91-20-3	1	mg/kg	----	<1	----	<1	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	**0.6**	<0.5	<0.5	<0.5	**1.1**
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	**1.8**	<0.5	<0.5	<0.5	<0.5

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Analytical Results

Sub-Matrix: **SOIL**
(Matrix: **SOIL**)

Compound	CAS Number	LOR	Unit	Sample ID	BUR_BH115_0.5	BUR_BH115_1.0	BUR_BH115_5.0	BUR_BH115_10.0	BUR_BH115_15.0
				Sampling date / time	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
					ES2146990-028	ES2146990-029	ES2146990-030	ES2146990-031	ES2146990-032
					Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued									
Pyrene	129-00-0	0.5	mg/kg		**1.8**	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg		**1.0**	<0.5	<0.5	<0.5	<0.5
Chrysene	218-01-9	0.5	mg/kg		**0.8**	<0.5	<0.5	<0.5	<0.5
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg		**1.3**	<0.5	<0.5	<0.5	<0.5
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg		**0.6**	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg		**1.2**	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		**0.6**	<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		**0.8**	<0.5	<0.5	<0.5	<0.5
^ **Sum of polycyclic aromatic hydrocarbons**	----	0.5	mg/kg		**10.5**	<0.5	<0.5	<0.5	**1.1**
^ **Benzo(a)pyrene TEQ (zero)**	----	0.5	mg/kg		**1.6**	<0.5	<0.5	<0.5	<0.5
^ **Benzo(a)pyrene TEQ (half LOR)**	----	0.5	mg/kg		**1.8**	**0.6**	**0.6**	**0.6**	**0.6**
^ **Benzo(a)pyrene TEQ (LOR)**	----	0.5	mg/kg		**2.1**	**1.2**	**1.2**	**1.2**	**1.2**
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg		<10	<10	<10	<10	**44**
C10 - C14 Fraction	----	50	mg/kg		<50	<50	<50	<50	**150**
C15 - C28 Fraction	----	100	mg/kg		<100	<100	<100	<100	**300**
C29 - C36 Fraction	----	100	mg/kg		<100	<100	<100	<100	<100
^ **C10 - C36 Fraction (sum)**	----	50	mg/kg		<50	<50	<50	<50	**450**
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		<10	<10	<10	<10	**69**
^ **C6 - C10 Fraction minus BTEX (F1)**	C6_C10-BTEX	10	mg/kg		<10	<10	<10	<10	**69**
>C10 - C16 Fraction	----	50	mg/kg		<50	<50	<50	<50	**170**
>C16 - C34 Fraction	----	100	mg/kg		<100	<100	<100	<100	**300**
>C34 - C40 Fraction	----	100	mg/kg		<100	<100	<100	<100	<100
^ **>C10 - C40 Fraction (sum)**	----	50	mg/kg		<50	<50	<50	<50	**470**
^ **>C10 - C16 Fraction minus Naphthalene (F2)**	----	50	mg/kg		<50	<50	<50	<50	**170**
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5

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Analytical Results

Sub-Matrix: **SOIL**
(Matrix: **SOIL**)

Compound	CAS Number	LOR	Unit	Sample ID	BUR_BH115_0.5	BUR_BH115_1.0	BUR_BH115_5.0	BUR_BH115_10.0	BUR_BH115_15.0
				Sampling date / time	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
					ES2146990-028	ES2146990-029	ES2146990-030	ES2146990-031	ES2146990-032
					Result	Result	Result	Result	Result
EP080: BTEXN - Continued									
^ **Sum of BTEX**	----	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
^ **Total Xylenes**	----	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	91-20-3	1	mg/kg		<1	<1	<1	<1	<1
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	5.0	µg/kg		----	----	----	----	<5.0
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	5.0	µg/kg		----	----	----	----	<5.0
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	5.0	µg/kg		----	----	----	----	<5.0
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	5.0	µg/kg		----	----	----	----	<5.0
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	5.0	µg/kg		----	----	----	----	<5.0
Perfluorodecane sulfonic acid (PFDS)	335-77-3	5.0	µg/kg		----	----	----	----	<5.0
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	5	µg/kg		----	----	----	----	<5
Perfluoropentanoic acid (PFPeA)	2706-90-3	5.0	µg/kg		----	----	----	----	<5.0
Perfluorohexanoic acid (PFHxA)	307-24-4	5.0	µg/kg		----	----	----	----	<5.0
Perfluoroheptanoic acid (PFHpA)	375-85-9	5.0	µg/kg		----	----	----	----	<5.0
Perfluorooctanoic acid (PFOA)	335-67-1	5.0	µg/kg		----	----	----	----	<5.0
Perfluorononanoic acid (PFNA)	375-95-1	5.0	µg/kg		----	----	----	----	<5.0
Perfluorodecanoic acid (PFDA)	335-76-2	5.0	µg/kg		----	----	----	----	<5.0
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	5.0	µg/kg		----	----	----	----	<5.0
Perfluorododecanoic acid (PFDoDA)	307-55-1	5.0	µg/kg		----	----	----	----	<5.0
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	5.0	µg/kg		----	----	----	----	<5.0
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	5.0	µg/kg		----	----	----	----	<5.0
EP231C: Perfluoroalkyl Sulfonamides									
Perfluorooctane sulfonamide (FOSA)	754-91-6	5.0	µg/kg		----	----	----	----	<5.0

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH115_0.5	BUR_BH115_1.0	BUR_BH115_5.0	BUR_BH115_10.0	BUR_BH115_15.0
			Sampling date / time	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-028	ES2146990-029	ES2146990-030	ES2146990-031	ES2146990-032
				Result	Result	Result	Result	Result
EP231C: Perfluoroalkyl Sulfonamides - Continued								
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	5.0	µg/kg	----	----	----	----	<5.0
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	5.0	µg/kg	----	----	----	----	<5.0
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	5.0	µg/kg	----	----	----	----	<5.0
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	5.0	µg/kg	----	----	----	----	<5.0
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	5.0	µg/kg	----	----	----	----	<5.0
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	5.0	µg/kg	----	----	----	----	<5.0
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	5.0	µg/kg	----	----	----	----	<5.0
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	5.0	µg/kg	----	----	----	----	<5.0
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	5.0	µg/kg	----	----	----	----	<5.0
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	5.0	µg/kg	----	----	----	----	<5.0
EP231P: PFAS Sums								
Sum of PFAS	----	5.0	µg/kg	----	----	----	----	<5.0
Sum of PFHxS and PFOS	355-46-4/1763-23-1	5.0	µg/kg	----	----	----	----	<5.0
Sum of PFAS (WA DER List)	----	5.0	µg/kg	----	----	----	----	<5.0
EP066S: PCB Surrogate								
Decachlorobiphenyl	2051-24-3	0.1	%	107	118	120	129	99.8
EP068S: Organochlorine Pesticide Surrogate								
Dibromo-DDE	21655-73-2	0.05	%	96.0	120	115	97.7	80.8
EP068T: Organophosphorus Pesticide Surrogate								
DEF	78-48-8	0.05	%	118	124	122	111	107
EP074S: VOC Surrogates								

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH115_0.5	BUR_BH115_1.0	BUR_BH115_5.0	BUR_BH115_10.0	BUR_BH115_15.0
			Sampling date / time	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-028	ES2146990-029	ES2146990-030	ES2146990-031	ES2146990-032
				Result	Result	Result	Result	Result
EP074S: VOC Surrogates - Continued								
1.2-Dichloroethane-D4	17060-07-0	0.5	%	----	90.3	----	104	----
Toluene-D8	2037-26-5	0.5	%	----	104	----	118	----
4-Bromofluorobenzene	460-00-4	0.5	%	----	93.5	----	103	----
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.5	%	86.4	82.0	80.6	89.2	92.4
2-Chlorophenol-D4	93951-73-6	0.5	%	87.5	86.6	83.8	92.6	95.1
2.4.6-Tribromophenol	118-79-6	0.5	%	84.5	86.1	86.4	90.2	88.5
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.5	%	99.8	94.8	93.9	100	102
Anthracene-d10	1719-06-8	0.5	%	106	102	102	105	107
4-Terphenyl-d14	1718-51-0	0.5	%	94.6	88.7	98.0	97.6	99.8
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	97.2	88.1	96.0	101	97.7
Toluene-D8	2037-26-5	0.2	%	94.0	94.3	101	107	106
4-Bromofluorobenzene	460-00-4	0.2	%	72.1	85.8	81.6	94.8	87.6
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	----	----	----	----	92.0
13C8-PFOA	----	0.0002	%	----	----	----	----	100

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Analytical Results

Sub-Matrix: **SOIL**
(Matrix: **SOIL**)

Compound	CAS Number	LOR	Unit	Sample ID	BUR_BH117_0.2	BUR_BH117_1.0	BUR_BH117_3.0	D08_20211221	BUR_BH125_0.2
				Sampling date / time	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
					ES2146990-033	ES2146990-034	ES2146990-035	ES2146990-036	ES2146990-037
					Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%		21.2	22.5	13.4	18.4	17.8
EA200: AS 4964 - 2004 Identification of Asbestos in Soils									
Asbestos Detected	1332-21-4	0.1	g/kg		No	----	----	----	No
Asbestos (Trace)	1332-21-4	5	Fibres		No	----	----	----	No
Asbestos Type	1332-21-4	-	--		-	----	----	----	-
Synthetic Mineral Fibre	----	0.1	g/kg		No	----	----	----	No
Organic Fibre	----	0.1	g/kg		No	----	----	----	No
Sample weight (dry)	----	0.01	g		518	----	----	----	474
APPROVED IDENTIFIER:	----	-	--		A. SMYLIE	----	----	----	A. SMYLIE
EG005(ED093)T: Total Metals by ICP-AES									
Arsenic	7440-38-2	5	mg/kg		10	6	10	19	10
Cadmium	7440-43-9	1	mg/kg		5	<1	<1	8	<1
Chromium	7440-47-3	2	mg/kg		22	12	8	28	18
Copper	7440-50-8	5	mg/kg		207	10	20	308	53
Lead	7439-92-1	5	mg/kg		724	27	18	1030	445
Nickel	7440-02-0	2	mg/kg		37	<2	<2	62	9
Zinc	7440-66-6	5	mg/kg		1180	<5	11	2170	286
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg		0.2	<0.1	<0.1	0.2	0.2
EP066: Polychlorinated Biphenyls (PCB)									
Total Polychlorinated biphenyls	----	0.1	mg/kg		<0.1	<0.1	<0.1	<0.1	<0.1
EP068A: Organochlorine Pesticides (OC)									
alpha-BHC	319-84-6	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
beta-BHC	319-85-7	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
gamma-BHC	58-89-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
delta-BHC	319-86-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor	76-44-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
^ Total Chlordane (sum)	----	0.05	mg/kg		0.07	<0.05	<0.05	<0.05	<0.05
trans-Chlordane	5103-74-2	0.05	mg/kg		0.07	<0.05	<0.05	<0.05	<0.05
alpha-Endosulfan	959-98-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
cis-Chlordane	5103-71-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH117_0.2	BUR_BH117_1.0	BUR_BH117_3.0	D08_20211221	BUR_BH125_0.2
			Sampling date / time	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-033	ES2146990-034	ES2146990-035	ES2146990-036	ES2146990-037
				Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued								
Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
EP068B: Organophosphorus Pesticides (OP)								
Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
EP074A: Monocyclic Aromatic Hydrocarbons								

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH117_0.2	BUR_BH117_1.0	BUR_BH117_3.0	D08_20211221	BUR_BH125_0.2
			Sampling date / time	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-033	ES2146990-034	ES2146990-035	ES2146990-036	ES2146990-037
				Result	Result	Result	Result	Result
EP074A: Monocyclic Aromatic Hydrocarbons - Continued								
Styrene	100-42-5	0.5	mg/kg	<0.5	----	----	<0.5	----
Isopropylbenzene	98-82-8	0.5	mg/kg	<0.5	----	----	<0.5	----
n-Propylbenzene	103-65-1	0.5	mg/kg	<0.5	----	----	<0.5	----
1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	<0.5	----	----	<0.5	----
sec-Butylbenzene	135-98-8	0.5	mg/kg	<0.5	----	----	<0.5	----
1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	<0.5	----	----	<0.5	----
tert-Butylbenzene	98-06-6	0.5	mg/kg	<0.5	----	----	<0.5	----
p-Isopropyltoluene	99-87-6	0.5	mg/kg	<0.5	----	----	<0.5	----
n-Butylbenzene	104-51-8	0.5	mg/kg	<0.5	----	----	<0.5	----
EP074B: Oxygenated Compounds								
Vinyl Acetate	108-05-4	5	mg/kg	<5	----	----	<5	----
2-Butanone (MEK)	78-93-3	5	mg/kg	<5	----	----	<5	----
4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	<5	----	----	<5	----
2-Hexanone (MBK)	591-78-6	5	mg/kg	<5	----	----	<5	----
EP074C: Sulfonated Compounds								
Carbon disulfide	75-15-0	0.5	mg/kg	<0.5	----	----	<0.5	----
EP074D: Fumigants								
2.2-Dichloropropane	594-20-7	0.5	mg/kg	<0.5	----	----	<0.5	----
1.2-Dichloropropane	78-87-5	0.5	mg/kg	<0.5	----	----	<0.5	----
cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	<0.5	----	----	<0.5	----
trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	<0.5	----	----	<0.5	----
1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	<0.5	----	----	<0.5	----
EP074E: Halogenated Aliphatic Compounds								
Dichlorodifluoromethane	75-71-8	5	mg/kg	<5	----	----	<5	----
Chloromethane	74-87-3	5	mg/kg	<5	----	----	<5	----
Vinyl chloride	75-01-4	5	mg/kg	<5	----	----	<5	----
Bromomethane	74-83-9	5	mg/kg	<5	----	----	<5	----
Chloroethane	75-00-3	5	mg/kg	<5	----	----	<5	----
Trichlorofluoromethane	75-69-4	5	mg/kg	<5	----	----	<5	----
1.1-Dichloroethene	75-35-4	0.5	mg/kg	<0.5	----	----	<0.5	----
Iodomethane	74-88-4	0.5	mg/kg	<0.5	----	----	<0.5	----
trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	<0.5	----	----	<0.5	----
1.1-Dichloroethane	75-34-3	0.5	mg/kg	<0.5	----	----	<0.5	----
cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	<0.5	----	----	<0.5	----

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH117_0.2	BUR_BH117_1.0	BUR_BH117_3.0	D08_20211221	BUR_BH125_0.2
			Sampling date / time	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-033	ES2146990-034	ES2146990-035	ES2146990-036	ES2146990-037
				Result	Result	Result	Result	Result
EP074E: Halogenated Aliphatic Compounds - Continued								
1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	<0.5	----	----	<0.5	----
1.1-Dichloropropylene	563-58-6	0.5	mg/kg	<0.5	----	----	<0.5	----
Carbon Tetrachloride	56-23-5	0.5	mg/kg	<0.5	----	----	<0.5	----
1.2-Dichloroethane	107-06-2	0.5	mg/kg	<0.5	----	----	<0.5	----
Trichloroethene	79-01-6	0.5	mg/kg	<0.5	----	----	<0.5	----
Dibromomethane	74-95-3	0.5	mg/kg	<0.5	----	----	<0.5	----
1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	<0.5	----	----	<0.5	----
1.3-Dichloropropane	142-28-9	0.5	mg/kg	<0.5	----	----	<0.5	----
Tetrachloroethene	127-18-4	0.5	mg/kg	<0.5	----	----	<0.5	----
1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	<0.5	----	----	<0.5	----
trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	<0.5	----	----	<0.5	----
cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	<0.5	----	----	<0.5	----
1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	<0.5	----	----	<0.5	----
1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	<0.5	----	----	<0.5	----
Pentachloroethane	76-01-7	0.5	mg/kg	<0.5	----	----	<0.5	----
1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	<0.5	----	----	<0.5	----
Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	----	----	<0.5	----
EP074F: Halogenated Aromatic Compounds								
Chlorobenzene	108-90-7	0.5	mg/kg	<0.5	----	----	<0.5	----
Bromobenzene	108-86-1	0.5	mg/kg	<0.5	----	----	<0.5	----
2-Chlorotoluene	95-49-8	0.5	mg/kg	<0.5	----	----	<0.5	----
4-Chlorotoluene	106-43-4	0.5	mg/kg	<0.5	----	----	<0.5	----
1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	----	----	<0.5	----
1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	----	----	<0.5	----
1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	----	----	<0.5	----
1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	----	----	<0.5	----
1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	<0.5	----	----	<0.5	----
EP074G: Trihalomethanes								
Chloroform	67-66-3	0.5	mg/kg	<0.5	----	----	<0.5	----
Bromodichloromethane	75-27-4	0.5	mg/kg	<0.5	----	----	<0.5	----
Dibromochloromethane	124-48-1	0.5	mg/kg	<0.5	----	----	<0.5	----
Bromoform	75-25-2	0.5	mg/kg	<0.5	----	----	<0.5	----
EP074H: Naphthalene								
Naphthalene	91-20-3	1	mg/kg	<1	----	----	<1	----

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH117_0.2	BUR_BH117_1.0	BUR_BH117_3.0	D08_20211221	BUR_BH125_0.2
			Sampling date / time	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-033	ES2146990-034	ES2146990-035	ES2146990-036	ES2146990-037
				Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	0.7
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	0.9	<0.5	<0.5	1.0	3.4
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	1.0
Fluoranthene	206-44-0	0.5	mg/kg	1.9	<0.5	<0.5	2.1	6.1
Pyrene	129-00-0	0.5	mg/kg	1.9	<0.5	<0.5	2.2	6.1
Benz(a)anthracene	56-55-3	0.5	mg/kg	0.9	<0.5	<0.5	1.0	3.2
Chrysene	218-01-9	0.5	mg/kg	0.9	<0.5	<0.5	1.0	3.0
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	1.2	<0.5	<0.5	1.3	4.1
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	<0.5	0.5	1.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg	1.1	<0.5	<0.5	1.1	3.6
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	0.6	<0.5	<0.5	0.6	2.0
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	0.7	<0.5	<0.5	0.8	2.2
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	10.1	<0.5	<0.5	11.6	36.9
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	1.4	<0.5	<0.5	1.4	4.7
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	1.7	0.6	0.6	1.7	5.0
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	1.9	1.2	1.2	2.0	5.2
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	10	mg/kg	<10	<10	<10	<10	<10
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
C15 - C28 Fraction	----	100	mg/kg	<100	<100	<100	<100	160
C29 - C36 Fraction	----	100	mg/kg	<100	<100	<100	<100	130
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	<50	<50	290
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	<10	<10	<10
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	<10	<10	<10	<10
>C10 - C16 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
>C16 - C34 Fraction	----	100	mg/kg	<100	<100	<100	150	240
>C34 - C40 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	<50	150	240

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH117_0.2	BUR_BH117_1.0	BUR_BH117_3.0	D08_20211221	BUR_BH125_0.2
			Sampling date / time	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-033	ES2146990-034	ES2146990-035	ES2146990-036	ES2146990-037
				Result	Result	Result	Result	Result
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued								
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	<50	<50	<50	<50
EP080: BTEXN								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of BTEX	----	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
^ Total Xylenes	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	91-20-3	1	mg/kg	<1	<1	<1	<1	<1
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
Perfluorodecane sulfonic acid (PFDS)	335-77-3	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	5	µg/kg	<5	----	<5	<5	<5
Perfluoropentanoic acid (PFPeA)	2706-90-3	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
Perfluorohexanoic acid (PFHxA)	307-24-4	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
Perfluoroheptanoic acid (PFHpA)	375-85-9	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
Perfluorooctanoic acid (PFOA)	335-67-1	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
Perfluorononanoic acid (PFNA)	375-95-1	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
Perfluorodecanoic acid (PFDA)	335-76-2	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH117_0.2	BUR_BH117_1.0	BUR_BH117_3.0	D08_20211221	BUR_BH125_0.2
			Sampling date / time	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-033	ES2146990-034	ES2146990-035	ES2146990-036	ES2146990-037
				Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorododecanoic acid (PFDoDA)	307-55-1	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
EP231P: PFAS Sums								
Sum of PFAS	----	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
Sum of PFHxS and PFOS	355-46-4/1763-23-1	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH117_0.2	BUR_BH117_1.0	BUR_BH117_3.0	D08_20211221	BUR_BH125_0.2
			Sampling date / time	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-033	ES2146990-034	ES2146990-035	ES2146990-036	ES2146990-037
				Result	Result	Result	Result	Result
EP231P: PFAS Sums - Continued								
Sum of PFAS (WA DER List)	----	5.0	µg/kg	<5.0	----	<5.0	<5.0	<5.0
EP066S: PCB Surrogate								
Decachlorobiphenyl	2051-24-3	0.1	%	99.6	86.0	105	82.0	87.4
EP068S: Organochlorine Pesticide Surrogate								
Dibromo-DDE	21655-73-2	0.05	%	97.3	98.4	91.5	72.5	72.8
EP068T: Organophosphorus Pesticide Surrogate								
DEF	78-48-8	0.05	%	115	75.9	65.5	81.0	76.8
EP074S: VOC Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.5	%	96.8	----	----	104	----
Toluene-D8	2037-26-5	0.5	%	96.5	----	----	93.6	----
4-Bromofluorobenzene	460-00-4	0.5	%	92.4	----	----	87.1	----
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.5	%	82.9	92.8	92.9	83.5	95.5
2-Chlorophenol-D4	93951-73-6	0.5	%	84.6	88.1	92.3	85.6	90.2
2.4.6-Tribromophenol	118-79-6	0.5	%	82.2	67.8	62.5	56.5	67.3
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.5	%	98.3	82.3	83.7	82.7	80.7
Anthracene-d10	1719-06-8	0.5	%	105	103	102	99.0	103
4-Terphenyl-d14	1718-51-0	0.5	%	93.2	97.7	97.4	98.3	95.8
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	94.3	97.3	93.0	102	101
Toluene-D8	2037-26-5	0.2	%	87.8	97.2	101	85.1	107
4-Bromofluorobenzene	460-00-4	0.2	%	85.2	82.9	82.6	81.2	87.7
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	116	----	96.0	108	99.5
13C8-PFOA	----	0.0002	%	109	----	106	104	102

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Analytical Results

Sub-Matrix: **SOIL**
(Matrix: **SOIL**)

Compound	CAS Number	LOR	Unit	Sample ID	BUR_BH125_0.5	BUR_BH125_5.0	BUR_BH101_0.1	BUR_BH101_2.0	BUR_BH112_0.2
				Sampling date / time	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
					ES2146990-038	ES2146990-039	ES2146990-040	ES2146990-042	ES2146990-043
					Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	0.1	%		----	----	12.6	16.5	13.4
Moisture Content	----	1.0	%		22.5	14.6	----	----	----
EA200: AS 4964 - 2004 Identification of Asbestos in Soils									
Asbestos Detected	1332-21-4	0.1	g/kg		----	----	No	----	No
Asbestos (Trace)	1332-21-4	5	Fibres		----	----	No	----	No
Asbestos Type	1332-21-4	-	--		----	----	-	----	-
Synthetic Mineral Fibre	----	0.1	g/kg		----	----	No	----	No
Organic Fibre	----	0.1	g/kg		----	----	No	----	No
Sample weight (dry)	----	0.01	g		----	----	378	----	277
APPROVED IDENTIFIER:	----	-	--		----	----	A. SMYLIE	----	A. SMYLIE
EG005(ED093)T: Total Metals by ICP-AES									
Arsenic	7440-38-2	5	mg/kg		9	7	<5	----	<5
Cadmium	7440-43-9	1	mg/kg		<1	<1	<1	----	<1
Chromium	7440-47-3	2	mg/kg		25	14	17	----	96
Copper	7440-50-8	5	mg/kg		15	21	22	----	27
Lead	7439-92-1	5	mg/kg		50	21	45	----	10
Nickel	7440-02-0	2	mg/kg		4	2	20	----	95
Zinc	7440-66-6	5	mg/kg		31	18	59	----	56
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg		<0.1	<0.1	<0.1	----	<0.1
EP066: Polychlorinated Biphenyls (PCB)									
Total Polychlorinated biphenyls	----	0.1	mg/kg		<0.1	<0.1	<0.1	----	<0.1
EP068A: Organochlorine Pesticides (OC)									
alpha-BHC	319-84-6	0.05	mg/kg		<0.05	<0.05	<0.05	----	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg		<0.05	<0.05	<0.05	----	<0.05
beta-BHC	319-85-7	0.05	mg/kg		<0.05	<0.05	<0.05	----	<0.05
gamma-BHC	58-89-9	0.05	mg/kg		<0.05	<0.05	<0.05	----	<0.05
delta-BHC	319-86-8	0.05	mg/kg		<0.05	<0.05	<0.05	----	<0.05
Heptachlor	76-44-8	0.05	mg/kg		<0.05	<0.05	<0.05	----	<0.05
Aldrin	309-00-2	0.05	mg/kg		<0.05	<0.05	<0.05	----	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg		<0.05	<0.05	<0.05	----	<0.05
^ **Total Chlordane (sum)**	----	0.05	mg/kg		<0.05	<0.05	<0.05	----	<0.05
trans-Chlordane	5103-74-2	0.05	mg/kg		<0.05	<0.05	<0.05	----	<0.05
alpha-Endosulfan	959-98-8	0.05	mg/kg		<0.05	<0.05	<0.05	----	<0.05

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH125_0.5	BUR_BH125_5.0	BUR_BH101_0.1	BUR_BH101_2.0	BUR_BH112_0.2
			Sampling date / time	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-038	ES2146990-039	ES2146990-040	ES2146990-042	ES2146990-043
				Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued								
cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
^ Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	<0.2	----	<0.2
Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	<0.2	----	<0.2
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
EP068B: Organophosphorus Pesticides (OP)								
Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	<0.2	----	<0.2
Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	<0.2	----	<0.2
Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	<0.2	----	<0.2
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05

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Analytical Results

Sub-Matrix: **SOIL**
(Matrix: **SOIL**)

Compound	CAS Number	LOR	Unit	Sample ID	BUR_BH125_0.5	BUR_BH125_5.0	BUR_BH101_0.1	BUR_BH101_2.0	BUR_BH112_0.2
				Sampling date / time	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
					ES2146990-038	ES2146990-039	ES2146990-040	ES2146990-042	ES2146990-043
					Result	Result	Result	Result	Result
EP074A: Monocyclic Aromatic Hydrocarbons									
Styrene	100-42-5	0.5	mg/kg		<0.5	----	<0.5	<0.5	----
Isopropylbenzene	98-82-8	0.5	mg/kg		<0.5	----	<0.5	<0.5	----
n-Propylbenzene	103-65-1	0.5	mg/kg		<0.5	----	<0.5	<0.5	----
1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg		<0.5	----	<0.5	<0.5	----
sec-Butylbenzene	135-98-8	0.5	mg/kg		<0.5	----	<0.5	<0.5	----
1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg		<0.5	----	<0.5	<0.5	----
tert-Butylbenzene	98-06-6	0.5	mg/kg		<0.5	----	<0.5	<0.5	----
p-Isopropyltoluene	99-87-6	0.5	mg/kg		<0.5	----	<0.5	<0.5	----
n-Butylbenzene	104-51-8	0.5	mg/kg		<0.5	----	<0.5	<0.5	----
EP074B: Oxygenated Compounds									
Vinyl Acetate	108-05-4	5	mg/kg		<5	----	<5	<5	----
2-Butanone (MEK)	78-93-3	5	mg/kg		<5	----	<5	<5	----
4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg		<5	----	<5	<5	----
2-Hexanone (MBK)	591-78-6	5	mg/kg		<5	----	<5	<5	----
EP074C: Sulfonated Compounds									
Carbon disulfide	75-15-0	0.5	mg/kg		<0.5	----	<0.5	<0.5	----
EP074D: Fumigants									
2.2-Dichloropropane	594-20-7	0.5	mg/kg		<0.5	----	<0.5	<0.5	----
1.2-Dichloropropane	78-87-5	0.5	mg/kg		<0.5	----	<0.5	<0.5	----
cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg		<0.5	----	<0.5	<0.5	----
trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg		<0.5	----	<0.5	<0.5	----
1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg		<0.5	----	<0.5	<0.5	----
EP074E: Halogenated Aliphatic Compounds									
Dichlorodifluoromethane	75-71-8	5	mg/kg		<5	----	<5	<5	----
Chloromethane	74-87-3	5	mg/kg		<5	----	<5	<5	----
Vinyl chloride	75-01-4	5	mg/kg		<5	----	<5	<5	----
Bromomethane	74-83-9	5	mg/kg		<5	----	<5	<5	----
Chloroethane	75-00-3	5	mg/kg		<5	----	<5	<5	----
Trichlorofluoromethane	75-69-4	5	mg/kg		<5	----	<5	<5	----
1.1-Dichloroethene	75-35-4	0.5	mg/kg		<0.5	----	<0.5	<0.5	----
Iodomethane	74-88-4	0.5	mg/kg		<0.5	----	<0.5	<0.5	----
trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg		<0.5	----	<0.5	<0.5	----
1.1-Dichloroethane	75-34-3	0.5	mg/kg		<0.5	----	<0.5	<0.5	----
cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg		<0.5	----	<0.5	<0.5	----

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH125_0.5	BUR_BH125_5.0	BUR_BH101_0.1	BUR_BH101_2.0	BUR_BH112_0.2
			Sampling date / time	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-038	ES2146990-039	ES2146990-040	ES2146990-042	ES2146990-043
				Result	Result	Result	Result	Result
EP074E: Halogenated Aliphatic Compounds - Continued								
1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
1.1-Dichloropropylene	563-58-6	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
Carbon Tetrachloride	56-23-5	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
1.2-Dichloroethane	107-06-2	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
Trichloroethene	79-01-6	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
Dibromomethane	74-95-3	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
1.3-Dichloropropane	142-28-9	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
Tetrachloroethene	127-18-4	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
Pentachloroethane	76-01-7	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
EP074F: Halogenated Aromatic Compounds								
Chlorobenzene	108-90-7	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
Bromobenzene	108-86-1	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
2-Chlorotoluene	95-49-8	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
4-Chlorotoluene	106-43-4	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
EP074G: Trihalomethanes								
Chloroform	67-66-3	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
Bromodichloromethane	75-27-4	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
Dibromochloromethane	124-48-1	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
Bromoform	75-25-2	0.5	mg/kg	<0.5	----	<0.5	<0.5	----
EP074H: Naphthalene								
Naphthalene	91-20-3	1	mg/kg	<1	----	<1	<1	----

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH125_0.5	BUR_BH125_5.0	BUR_BH101_0.1	BUR_BH101_2.0	BUR_BH112_0.2
			Sampling date / time	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-038	ES2146990-039	ES2146990-040	ES2146990-042	ES2146990-043
				Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	----	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	<0.5	----	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	----	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	----	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	3.2	----	<0.5
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	1.0	----	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	4.8	----	<0.5
Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	4.1	----	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	1.8	----	<0.5
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	1.6	----	<0.5
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	2.0	----	<0.5
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.8	----	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	1.6	----	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.9	----	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	<0.5	----	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	1.1	----	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	22.9	----	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	2.2	----	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	0.6	0.6	2.4	----	0.6
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	1.2	1.2	2.7	----	1.2
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	10	mg/kg	<10	<10	<10	----	<10
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	----	<50
C15 - C28 Fraction	----	100	mg/kg	<100	<100	<100	----	<100
C29 - C36 Fraction	----	100	mg/kg	<100	<100	<100	----	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	<50	----	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	<10	----	11
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	<10	<10	----	11
>C10 - C16 Fraction	----	50	mg/kg	<50	<50	<50	----	<50
>C16 - C34 Fraction	----	100	mg/kg	<100	<100	<100	----	<100
>C34 - C40 Fraction	----	100	mg/kg	<100	<100	120	----	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	120	----	<50

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BUR_BH125_0.5	BUR_BH125_5.0	BUR_BH101_0.1	BUR_BH101_2.0	BUR_BH112_0.2
				Sampling date / time	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit		ES2146990-038	ES2146990-039	ES2146990-040	ES2146990-042	ES2146990-043
					Result	Result	Result	Result	Result
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued									
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		<50	<50	<50	----	<50
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		<0.2	<0.2	<0.2	----	<0.2
Toluene	108-88-3	0.5	mg/kg		<0.5	<0.5	<0.5	----	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	<0.5	<0.5	----	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	<0.5	<0.5	----	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	<0.5	<0.5	----	<0.5
^ Sum of BTEX	----	0.2	mg/kg		<0.2	<0.2	<0.2	----	<0.2
^ Total Xylenes	----	0.5	mg/kg		<0.5	<0.5	<0.5	----	<0.5
Naphthalene	91-20-3	1	mg/kg		<1	<1	<1	----	<1
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	5.0	µg/kg		----	<5.0	<5.0	----	<5.0
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	5.0	µg/kg		----	<5.0	<5.0	----	<5.0
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	5.0	µg/kg		----	<5.0	<5.0	----	<5.0
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	5.0	µg/kg		----	<5.0	<5.0	----	<5.0
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	5.0	µg/kg		----	<5.0	<5.0	----	<5.0
Perfluorodecane sulfonic acid (PFDS)	335-77-3	5.0	µg/kg		----	<5.0	<5.0	----	<5.0
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	5	µg/kg		----	<5	<5	----	<5
Perfluoropentanoic acid (PFPeA)	2706-90-3	5.0	µg/kg		----	<5.0	<5.0	----	<5.0
Perfluorohexanoic acid (PFHxA)	307-24-4	5.0	µg/kg		----	<5.0	<5.0	----	<5.0
Perfluoroheptanoic acid (PFHpA)	375-85-9	5.0	µg/kg		----	<5.0	<5.0	----	<5.0
Perfluorooctanoic acid (PFOA)	335-67-1	5.0	µg/kg		----	<5.0	<5.0	----	<5.0
Perfluorononanoic acid (PFNA)	375-95-1	5.0	µg/kg		----	<5.0	<5.0	----	<5.0
Perfluorodecanoic acid (PFDA)	335-76-2	5.0	µg/kg		----	<5.0	<5.0	----	<5.0
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	5.0	µg/kg		----	<5.0	<5.0	----	<5.0

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH125_0.5	BUR_BH125_5.0	BUR_BH101_0.1	BUR_BH101_2.0	BUR_BH112_0.2
			Sampling date / time	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-038	ES2146990-039	ES2146990-040	ES2146990-042	ES2146990-043
				Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorododecanoic acid (PFDoDA)	307-55-1	5.0	µg/kg	----	<5.0	<5.0	----	<5.0
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	5.0	µg/kg	----	<5.0	<5.0	----	<5.0
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	5.0	µg/kg	----	<5.0	<5.0	----	<5.0
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	5.0	µg/kg	----	<5.0	<5.0	----	<5.0
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	5.0	µg/kg	----	<5.0	<5.0	----	<5.0
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	5.0	µg/kg	----	<5.0	<5.0	----	<5.0
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	5.0	µg/kg	----	<5.0	<5.0	----	<5.0
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	5.0	µg/kg	----	<5.0	<5.0	----	<5.0
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	5.0	µg/kg	----	<5.0	<5.0	----	<5.0
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	5.0	µg/kg	----	<5.0	<5.0	----	<5.0
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	5.0	µg/kg	----	<5.0	<5.0	----	<5.0
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	5.0	µg/kg	----	<5.0	<5.0	----	<5.0
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	5.0	µg/kg	----	<5.0	<5.0	----	<5.0
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	5.0	µg/kg	----	<5.0	<5.0	----	<5.0
EP231P: PFAS Sums								
Sum of PFAS	----	5.0	µg/kg	----	<5.0	<5.0	----	<5.0
Sum of PFHxS and PFOS	355-46-4/1763-23-1	5.0	µg/kg	----	<5.0	<5.0	----	<5.0

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH125_0.5	BUR_BH125_5.0	BUR_BH101_0.1	BUR_BH101_2.0	BUR_BH112_0.2
			Sampling date / time	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-038	ES2146990-039	ES2146990-040	ES2146990-042	ES2146990-043
				Result	Result	Result	Result	Result
EP231P: PFAS Sums - Continued								
Sum of PFAS (WA DER List)	----	5.0	µg/kg	----	<5.0	<5.0	----	<5.0
EP066S: PCB Surrogate								
Decachlorobiphenyl	2051-24-3	0.1	%	95.0	93.6	92.4	----	101
EP068S: Organochlorine Pesticide Surrogate								
Dibromo-DDE	21655-73-2	0.05	%	99.4	96.0	82.7	----	92.3
EP068T: Organophosphorus Pesticide Surrogate								
DEF	78-48-8	0.05	%	100	90.3	93.8	----	98.4
EP074S: VOC Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.5	%	85.3	----	101	105	----
Toluene-D8	2037-26-5	0.5	%	93.7	----	115	101	----
4-Bromofluorobenzene	460-00-4	0.5	%	85.4	----	103	98.2	----
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.5	%	82.5	80.9	84.8	----	83.7
2-Chlorophenol-D4	93951-73-6	0.5	%	85.9	84.5	86.4	----	87.5
2.4.6-Tribromophenol	118-79-6	0.5	%	87.3	84.1	84.2	----	86.5
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.5	%	93.4	91.4	93.1	----	94.3
Anthracene-d10	1719-06-8	0.5	%	103	99.2	99.0	----	102
4-Terphenyl-d14	1718-51-0	0.5	%	89.8	87.8	89.9	----	91.5
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	82.9	92.9	98.2	----	89.1
Toluene-D8	2037-26-5	0.2	%	85.0	101	105	----	98.7
4-Bromofluorobenzene	460-00-4	0.2	%	78.6	82.6	94.2	----	96.4
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	----	94.5	104	----	104
13C8-PFOA	----	0.0002	%	----	100	99.0	----	106

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH112_0.5	BUR_BH112_5.0	BUR_BH116_0.2	D07_20211221	BUR_BH116_0.5
			Sampling date / time	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-044	ES2146990-046	ES2146990-047	ES2146990-048	ES2146990-049
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	0.1	%	----	30.5	25.5	21.2	----
Moisture Content	----	1.0	%	28.8	----	----	----	22.2
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	6	6	8	16	6
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg	29	11	21	21	18
Copper	7440-50-8	5	mg/kg	11	27	132	215	12
Lead	7439-92-1	5	mg/kg	18	18	746	890	55
Nickel	7440-02-0	2	mg/kg	<2	7	13	16	3
Zinc	7440-66-6	5	mg/kg	<5	37	633	874	515
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.4	0.4	<0.1
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Total Chlordane (sum)	----	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH112_0.5	BUR_BH112_5.0	BUR_BH116_0.2	D07_20211221	BUR_BH116_0.5
			Sampling date / time	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-044	ES2146990-046	ES2146990-047	ES2146990-048	ES2146990-049
				Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued								
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
EP068B: Organophosphorus Pesticides (OP)								
Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
EP074A: Monocyclic Aromatic Hydrocarbons								
Styrene	100-42-5	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
Isopropylbenzene	98-82-8	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
n-Propylbenzene	103-65-1	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
sec-Butylbenzene	135-98-8	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
tert-Butylbenzene	98-06-6	0.5	mg/kg	<0.5	<0.5	----	----	<0.5

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH112_0.5	BUR_BH112_5.0	BUR_BH116_0.2	D07_20211221	BUR_BH116_0.5
			Sampling date / time	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-044	ES2146990-046	ES2146990-047	ES2146990-048	ES2146990-049
				Result	Result	Result	Result	Result
EP074A: Monocyclic Aromatic Hydrocarbons - Continued								
p-Isopropyltoluene	99-87-6	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
n-Butylbenzene	104-51-8	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
EP074B: Oxygenated Compounds								
Vinyl Acetate	108-05-4	5	mg/kg	<5	<5	----	----	<5
2-Butanone (MEK)	78-93-3	5	mg/kg	<5	<5	----	----	<5
4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	<5	<5	----	----	<5
2-Hexanone (MBK)	591-78-6	5	mg/kg	<5	<5	----	----	<5
EP074C: Sulfonated Compounds								
Carbon disulfide	75-15-0	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
EP074D: Fumigants								
2.2-Dichloropropane	594-20-7	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
1.2-Dichloropropane	78-87-5	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
EP074E: Halogenated Aliphatic Compounds								
Dichlorodifluoromethane	75-71-8	5	mg/kg	<5	<5	----	----	<5
Chloromethane	74-87-3	5	mg/kg	<5	<5	----	----	<5
Vinyl chloride	75-01-4	5	mg/kg	<5	<5	----	----	<5
Bromomethane	74-83-9	5	mg/kg	<5	<5	----	----	<5
Chloroethane	75-00-3	5	mg/kg	<5	<5	----	----	<5
Trichlorofluoromethane	75-69-4	5	mg/kg	<5	<5	----	----	<5
1.1-Dichloroethene	75-35-4	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
Iodomethane	74-88-4	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
1.1-Dichloroethane	75-34-3	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
1.1-Dichloropropylene	563-58-6	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
Carbon Tetrachloride	56-23-5	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
1.2-Dichloroethane	107-06-2	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
Trichloroethene	79-01-6	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
Dibromomethane	74-95-3	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	<0.5	<0.5	----	----	<0.5

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH112_0.5	BUR_BH112_5.0	BUR_BH116_0.2	D07_20211221	BUR_BH116_0.5
			Sampling date / time	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-044	ES2146990-046	ES2146990-047	ES2146990-048	ES2146990-049
				Result	Result	Result	Result	Result
EP074E: Halogenated Aliphatic Compounds - Continued								
1.3-Dichloropropane	142-28-9	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
Tetrachloroethene	127-18-4	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
Pentachloroethane	76-01-7	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
EP074F: Halogenated Aromatic Compounds								
Chlorobenzene	108-90-7	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
Bromobenzene	108-86-1	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
2-Chlorotoluene	95-49-8	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
4-Chlorotoluene	106-43-4	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
EP074G: Trihalomethanes								
Chloroform	67-66-3	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
Bromodichloromethane	75-27-4	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
Dibromochloromethane	124-48-1	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
Bromoform	75-25-2	0.5	mg/kg	<0.5	<0.5	----	----	<0.5
EP074H: Naphthalene								
Naphthalene	91-20-3	1	mg/kg	<1	<1	----	----	<1
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	**1.1**	**0.7**	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	**4.4**	**3.0**	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	**1.9**	**1.0**	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	**32.6**	**17.0**	<0.5
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	**8.4**	**4.3**	<0.5

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH112_0.5	BUR_BH112_5.0	BUR_BH116_0.2	D07_20211221	BUR_BH116_0.5
			Sampling date / time	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-044	ES2146990-046	ES2146990-047	ES2146990-048	ES2146990-049
				Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued								
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	38.8	25.5	<0.5
Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	34.8	23.6	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	16.1	11.1	<0.5
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	14.4	10.2	<0.5
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	17.2	13.5	<0.5
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	6.8	4.8	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	14.5	11.1	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	7.3	5.8	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	1.8	1.4	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	8.0	6.5	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	208	140	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	21.3	16.2	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	0.6	0.6	21.3	16.2	0.6
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	1.2	1.2	21.3	16.2	1.2
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	10	mg/kg	<10	<10	<10	<10	<10
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
C15 - C28 Fraction	----	100	mg/kg	<100	<100	440	330	<100
C29 - C36 Fraction	----	100	mg/kg	<100	<100	290	230	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	730	560	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	<10	<10	<10
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	<10	<10	<10	<10
>C10 - C16 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
>C16 - C34 Fraction	----	100	mg/kg	<100	<100	630	490	<100
>C34 - C40 Fraction	----	100	mg/kg	<100	<100	200	170	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	830	660	<50
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	<50	<50	<50	<50
EP080: BTEXN								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH112_0.5	BUR_BH112_5.0	BUR_BH116_0.2	D07_20211221	BUR_BH116_0.5
			Sampling date / time	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit	ES2146990-044	ES2146990-046	ES2146990-047	ES2146990-048	ES2146990-049
				Result	Result	Result	Result	Result
EP080: BTEXN - Continued								
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of BTEX	----	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
^ Total Xylenes	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	91-20-3	1	mg/kg	<1	<1	<1	<1	<1
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	5.0	µg/kg	----	<5.0	<5.0	<5.0	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	5.0	µg/kg	----	<5.0	<5.0	<5.0	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	5.0	µg/kg	----	<5.0	<5.0	<5.0	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	5.0	µg/kg	----	<5.0	<5.0	<5.0	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	5.0	µg/kg	----	<5.0	<5.0	<5.0	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	5.0	µg/kg	----	<5.0	<5.0	<5.0	----
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	5	µg/kg	----	<5	<5	<5	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	5.0	µg/kg	----	<5.0	<5.0	<5.0	----
Perfluorohexanoic acid (PFHxA)	307-24-4	5.0	µg/kg	----	<5.0	<5.0	<5.0	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	5.0	µg/kg	----	<5.0	<5.0	<5.0	----
Perfluorooctanoic acid (PFOA)	335-67-1	5.0	µg/kg	----	<5.0	<5.0	<5.0	----
Perfluorononanoic acid (PFNA)	375-95-1	5.0	µg/kg	----	<5.0	<5.0	<5.0	----
Perfluorodecanoic acid (PFDA)	335-76-2	5.0	µg/kg	----	<5.0	<5.0	<5.0	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	5.0	µg/kg	----	<5.0	<5.0	<5.0	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	5.0	µg/kg	----	<5.0	<5.0	<5.0	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	5.0	µg/kg	----	<5.0	<5.0	<5.0	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	5.0	µg/kg	----	<5.0	<5.0	<5.0	----
EP231C: Perfluoroalkyl Sulfonamides								

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Analytical Results

Sub-Matrix: **SOIL** (Matrix: **SOIL**)

Compound	CAS Number	LOR	Unit	Sample ID	BUR_BH112_0.5	BUR_BH112_5.0	BUR_BH116_0.2	D07_20211221	BUR_BH116_0.5
				Sampling date / time	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
					ES2146990-044	ES2146990-046	ES2146990-047	ES2146990-048	ES2146990-049
					Result	Result	Result	Result	Result
EP231C: Perfluoroalkyl Sulfonamides - Continued									
Perfluorooctane sulfonamide (FOSA)	754-91-6	5.0	µg/kg		----	<5.0	<5.0	<5.0	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	5.0	µg/kg		----	<5.0	<5.0	<5.0	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	5.0	µg/kg		----	<5.0	<5.0	<5.0	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	5.0	µg/kg		----	<5.0	<5.0	<5.0	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	5.0	µg/kg		----	<5.0	<5.0	<5.0	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	5.0	µg/kg		----	<5.0	<5.0	<5.0	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	5.0	µg/kg		----	<5.0	<5.0	<5.0	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	5.0	µg/kg		----	<5.0	<5.0	<5.0	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	5.0	µg/kg		----	<5.0	<5.0	<5.0	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	5.0	µg/kg		----	<5.0	<5.0	<5.0	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	5.0	µg/kg		----	<5.0	<5.0	<5.0	----
EP231P: PFAS Sums									
Sum of PFAS	----	5.0	µg/kg		----	<5.0	<5.0	<5.0	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	5.0	µg/kg		----	<5.0	<5.0	<5.0	----
Sum of PFAS (WA DER List)	----	5.0	µg/kg		----	<5.0	<5.0	<5.0	----
EP066S: PCB Surrogate									
Decachlorobiphenyl	2051-24-3	0.1	%		**111**	**86.5**	**79.4**	**89.6**	**109**
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%		**94.5**	**96.0**	**78.8**	**74.1**	**124**
EP068T: Organophosphorus Pesticide Surrogate									

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BUR_BH112_0.5	BUR_BH112_5.0	BUR_BH116_0.2	D07_20211221	BUR_BH116_0.5
				Sampling date / time	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00	21-Dec-2021 00:00
Compound	CAS Number	LOR	Unit		ES2146990-044	ES2146990-046	ES2146990-047	ES2146990-048	ES2146990-049
					Result	Result	Result	Result	Result
EP068T: Organophosphorus Pesticide Surrogate - Continued									
DEF	78-48-8	0.05	%		91.8	91.1	126	120	127
EP074S: VOC Surrogates									
1.2-Dichloroethane-D4	17060-07-0	0.5	%		83.2	106	----	----	92.4
Toluene-D8	2037-26-5	0.5	%		93.2	113	----	----	103
4-Bromofluorobenzene	460-00-4	0.5	%		83.5	115	----	----	95.7
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%		97.1	86.5	81.0	86.6	92.3
2-Chlorophenol-D4	93951-73-6	0.5	%		98.2	89.4	83.3	90.6	97.5
2.4.6-Tribromophenol	118-79-6	0.5	%		92.5	85.1	86.3	97.2	99.6
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%		95.9	95.9	91.1	99.3	97.1
Anthracene-d10	1719-06-8	0.5	%		93.2	102	92.4	102	95.8
4-Terphenyl-d14	1718-51-0	0.5	%		103	93.0	90.0	97.4	100
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	0.2	%		81.0	104	84.4	88.9	90.0
Toluene-D8	2037-26-5	0.2	%		84.7	103	89.5	82.0	93.5
4-Bromofluorobenzene	460-00-4	0.2	%		76.7	105	85.3	89.8	88.8
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.0002	%		----	84.5	98.0	103	----
13C8-PFOA	----	0.0002	%		----	102	100	99.5	----

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH116_3.0	TB	Trip Spike Control 22	----	----
			Sampling date / time	21-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	---	---
Compound	CAS Number	LOR	Unit	ES2146990-050	ES2146990-053	ES2146990-054	----	----
				Result	Result	Result	---	---
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	0.1	%	11.5	----	----	----	----
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	7	----	----	----	----
Cadmium	7440-43-9	1	mg/kg	<1	----	----	----	----
Chromium	7440-47-3	2	mg/kg	8	----	----	----	----
Copper	7440-50-8	5	mg/kg	30	----	----	----	----
Lead	7439-92-1	5	mg/kg	18	----	----	----	----
Nickel	7440-02-0	2	mg/kg	<2	----	----	----	----
Zinc	7440-66-6	5	mg/kg	10	----	----	----	----
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	----	----	----	----
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	----	----	----	----
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	----	----	----	----
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	----	----	----	----
beta-BHC	319-85-7	0.05	mg/kg	<0.05	----	----	----	----
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	----	----	----	----
delta-BHC	319-86-8	0.05	mg/kg	<0.05	----	----	----	----
Heptachlor	76-44-8	0.05	mg/kg	<0.05	----	----	----	----
Aldrin	309-00-2	0.05	mg/kg	<0.05	----	----	----	----
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	----	----	----	----
^ Total Chlordane (sum)	----	0.05	mg/kg	<0.05	----	----	----	----
trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	----	----	----	----
alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	----	----	----	----
cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	----	----	----	----
Dieldrin	60-57-1	0.05	mg/kg	<0.05	----	----	----	----
4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	----	----	----	----
Endrin	72-20-8	0.05	mg/kg	<0.05	----	----	----	----
beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	----	----	----	----
^ Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	----	----	----	----
4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	----	----	----	----
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	----	----	----	----
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	----	----	----	----

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH116_3.0	TB	Trip Spike Control 22	----	----
			Sampling date / time	21-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	---	---
Compound	CAS Number	LOR	Unit	ES2146990-050	ES2146990-053	ES2146990-054	----	----
				Result	Result	Result	---	---
EP068A: Organochlorine Pesticides (OC) - Continued								
4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	----	----	----	----
Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	----	----	----	----
Methoxychlor	72-43-5	0.2	mg/kg	<0.2	----	----	----	----
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.05	----	----	----	----
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.05	mg/kg	<0.05	----	----	----	----
EP068B: Organophosphorus Pesticides (OP)								
Dichlorvos	62-73-7	0.05	mg/kg	<0.05	----	----	----	----
Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	----	----	----	----
Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	----	----	----	----
Dimethoate	60-51-5	0.05	mg/kg	<0.05	----	----	----	----
Diazinon	333-41-5	0.05	mg/kg	<0.05	----	----	----	----
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	----	----	----	----
Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	----	----	----	----
Malathion	121-75-5	0.05	mg/kg	<0.05	----	----	----	----
Fenthion	55-38-9	0.05	mg/kg	<0.05	----	----	----	----
Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	----	----	----	----
Parathion	56-38-2	0.2	mg/kg	<0.2	----	----	----	----
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	----	----	----	----
Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	----	----	----	----
Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	----	----	----	----
Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	----	----	----	----
Prothiofos	34643-46-4	0.05	mg/kg	<0.05	----	----	----	----
Ethion	563-12-2	0.05	mg/kg	<0.05	----	----	----	----
Carbophenothion	786-19-6	0.05	mg/kg	<0.05	----	----	----	----
Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	----	----	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	----	----	----	----
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	----	----	----	----
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	----	----	----	----
Fluorene	86-73-7	0.5	mg/kg	<0.5	----	----	----	----
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	----	----	----	----
Anthracene	120-12-7	0.5	mg/kg	<0.5	----	----	----	----
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	----	----	----	----
Pyrene	129-00-0	0.5	mg/kg	<0.5	----	----	----	----

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH116_3.0	TB	Trip Spike Control 22	----	----
			Sampling date / time	21-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	---	---
Compound	CAS Number	LOR	Unit	ES2146990-050	ES2146990-053	ES2146990-054	----	----
				Result	Result	Result	---	---
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued								
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	----	----	----	----
Chrysene	218-01-9	0.5	mg/kg	<0.5	----	----	----	----
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	----	----	----	----
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	----	----	----	----
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	----	----	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	----	----	----	----
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	----	----	----	----
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	----	----	----	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	----	----	----	----
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	----	----	----	----
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	**0.6**	----	----	----	----
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	**1.2**	----	----	----	----
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	10	mg/kg	<10	<10	----	----	----
C10 - C14 Fraction	----	50	mg/kg	<50	----	----	----	----
C15 - C28 Fraction	----	100	mg/kg	<100	----	----	----	----
C29 - C36 Fraction	----	100	mg/kg	<100	----	----	----	----
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	----	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	----	----	----
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	<10	----	----	----
>C10 - C16 Fraction	----	50	mg/kg	<50	----	----	----	----
>C16 - C34 Fraction	----	100	mg/kg	<100	----	----	----	----
>C34 - C40 Fraction	----	100	mg/kg	<100	----	----	----	----
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	----	----	----	----
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	----	----	----	----
EP080: BTEXN								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	----	----
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	**17.7**	----	----
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	**3.1**	----	----
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	**19.1**	----	----
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	**7.4**	----	----

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH116_3.0	TB	Trip Spike Control 22	----	----
			Sampling date / time	21-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	---	---
Compound	CAS Number	LOR	Unit	ES2146990-050	ES2146990-053	ES2146990-054	----	----
				Result	Result	Result	---	---
EP080: BTEXN - Continued								
^ Sum of BTEX	----	0.2	mg/kg	<0.2	<0.2	47.3	----	----
^ Total Xylenes	----	0.5	mg/kg	<0.5	<0.5	26.5	----	----
Naphthalene	91-20-3	1	mg/kg	<1	<1	<1	----	----
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	5.0	µg/kg	<5.0	----	----	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	5.0	µg/kg	<5.0	----	----	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	5.0	µg/kg	<5.0	----	----	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	5.0	µg/kg	<5.0	----	----	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	5.0	µg/kg	<5.0	----	----	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	5.0	µg/kg	<5.0	----	----	----	----
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	5	µg/kg	<5	----	----	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	5.0	µg/kg	<5.0	----	----	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	5.0	µg/kg	<5.0	----	----	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	5.0	µg/kg	<5.0	----	----	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	5.0	µg/kg	<5.0	----	----	----	----
Perfluorononanoic acid (PFNA)	375-95-1	5.0	µg/kg	<5.0	----	----	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	5.0	µg/kg	<5.0	----	----	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	5.0	µg/kg	<5.0	----	----	----	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	5.0	µg/kg	<5.0	----	----	----	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	5.0	µg/kg	<5.0	----	----	----	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	5.0	µg/kg	<5.0	----	----	----	----
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	5.0	µg/kg	<5.0	----	----	----	----

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH116_3.0	TB	Trip Spike Control 22	-----	-----
			Sampling date / time	21-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	---	---
Compound	CAS Number	LOR	Unit	ES2146990-050	ES2146990-053	ES2146990-054	-----	-----
				Result	Result	Result	---	---
EP231C: Perfluoroalkyl Sulfonamides - Continued								
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	5.0	µg/kg	<5.0	----	----	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	5.0	µg/kg	<5.0	----	----	----	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	5.0	µg/kg	<5.0	----	----	----	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	5.0	µg/kg	<5.0	----	----	----	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	5.0	µg/kg	<5.0	----	----	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	5.0	µg/kg	<5.0	----	----	----	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	5.0	µg/kg	<5.0	----	----	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	5.0	µg/kg	<5.0	----	----	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	5.0	µg/kg	<5.0	----	----	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	5.0	µg/kg	<5.0	----	----	----	----
EP231P: PFAS Sums								
Sum of PFAS	----	5.0	µg/kg	<5.0	----	----	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	5.0	µg/kg	<5.0	----	----	----	----
Sum of PFAS (WA DER List)	----	5.0	µg/kg	<5.0	----	----	----	----
EP066S: PCB Surrogate								
Decachlorobiphenyl	2051-24-3	0.1	%	**127**	----	----	----	----
EP068S: Organochlorine Pesticide Surrogate								
Dibromo-DDE	21655-73-2	0.05	%	**97.3**	----	----	----	----
EP068T: Organophosphorus Pesticide Surrogate								
DEF	78-48-8	0.05	%	**67.2**	----	----	----	----
EP075(SIM)S: Phenolic Compound Surrogates								

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Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BUR_BH116_3.0	TB	Trip Spike Control 22	-----	-----
			Sampling date / time	21-Dec-2021 00:00	20-Dec-2021 00:00	20-Dec-2021 00:00	---	---
Compound	CAS Number	LOR	Unit	ES2146990-050	ES2146990-053	ES2146990-054	------	------
				Result	Result	Result	---	---
EP075(SIM)S: Phenolic Compound Surrogates - Continued								
Phenol-d6	13127-88-3	0.5	%	87.6	----	----	----	----
2-Chlorophenol-D4	93951-73-6	0.5	%	85.2	----	----	----	----
2.4.6-Tribromophenol	118-79-6	0.5	%	73.2	----	----	----	----
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.5	%	93.6	----	----	----	----
Anthracene-d10	1719-06-8	0.5	%	92.2	----	----	----	----
4-Terphenyl-d14	1718-51-0	0.5	%	89.2	----	----	----	----
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	82.6	92.2	91.8	----	----
Toluene-D8	2037-26-5	0.2	%	87.3	90.1	94.5	----	----
4-Bromofluorobenzene	460-00-4	0.2	%	88.4	92.9	91.9	----	----
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	65.5	----	----	----	----
13C8-PFOA	----	0.0002	%	102	----	----	----	----

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Analytical Results

Sub-Matrix: SOLID (Matrix: SOLID)				Sample ID	BUR_BH116_0.2 ACM	----	----	-----	-----
				Sampling date / time	21-Dec-2021 00:00	----	----	---	---
Compound	CAS Number	LOR	Unit		ES2146990-051	--------	--------	------	------
					Result	----	----	----	----
EA200: AS 4964 - 2004 Identification of Asbestos in bulk samples									
Asbestos Detected	1332-21-4	0.1	g/kg		**Yes**	----	----	----	----
Asbestos Type	1332-21-4	-	--		**Ch + Am + Cr**	----	----	----	----
Asbestos (Trace)	1332-21-4	5	Fibres		**N/A**	----	----	----	----
Sample weight (dry)	----	0.01	g		**60.3**	----	----	----	----
Synthetic Mineral Fibre	----	0.1	g/kg		**No**	----	----	----	----
Organic Fibre	----	0.1	g/kg		**No**	----	----	----	----
APPROVED IDENTIFIER:	----	-	--		**A. SMYLIE**	----	----	----	----

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Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	R04_20211220	R05_20211221	----	-----	-----
			Sampling date / time	20-Dec-2021 00:00	21-Dec-2021 00:00	----	---	---
Compound	CAS Number	LOR	Unit	ES2146990-024	ES2146990-025	--------	------	------
				Result	Result	---	---	---
EG020T: Total Metals by ICP-MS								
Arsenic	7440-38-2	0.001	mg/L	<0.001	<0.001	---	---	---
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	---	---	---
Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	---	---	---
Copper	7440-50-8	0.001	mg/L	<0.001	<0.001	---	---	---
Nickel	7440-02-0	0.001	mg/L	<0.001	<0.001	---	---	---
Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	---	---	---
Zinc	7440-66-6	0.005	mg/L	<0.005	<0.005	---	---	---
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	---	---	---
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	20	µg/L	<20	<20	---	---	---
C10 - C14 Fraction	----	50	µg/L	<50	<50	---	---	---
C15 - C28 Fraction	----	100	µg/L	<100	<100	---	---	---
C29 - C36 Fraction	----	50	µg/L	<50	<50	---	---	---
^ C10 - C36 Fraction (sum)	----	50	µg/L	<50	<50	---	---	---
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	20	µg/L	<20	<20	---	---	---
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	µg/L	<20	<20	---	---	---
>C10 - C16 Fraction	----	100	µg/L	<100	<100	---	---	---
>C16 - C34 Fraction	----	100	µg/L	<100	<100	---	---	---
>C34 - C40 Fraction	----	100	µg/L	<100	<100	---	---	---
^ >C10 - C40 Fraction (sum)	----	100	µg/L	<100	<100	---	---	---
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	100	µg/L	<100	<100	---	---	---
EP080: BTEXN								
Benzene	71-43-2	1	µg/L	<1	<1	---	---	---
Toluene	108-88-3	2	µg/L	<2	<2	---	---	---
Ethylbenzene	100-41-4	2	µg/L	<2	<2	---	---	---
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	<2	---	---	---
ortho-Xylene	95-47-6	2	µg/L	<2	<2	---	---	---
^ Total Xylenes	---	2	µg/L	<2	<2	---	---	---
^ Sum of BTEX	---	1	µg/L	<1	<1	---	---	---
Naphthalene	91-20-3	5	µg/L	<5	<5	---	---	---

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Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	R04_20211220	R05_20211221	----	-----	-----
			Sampling date / time	20-Dec-2021 00:00	21-Dec-2021 00:00	----	----	----
Compound	CAS Number	LOR	Unit	ES2146990-024	ES2146990-025	--------	------	------
				Result	Result	----	----	----
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	----	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	----	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	----	----	----
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	----	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	----	----	----
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	----	----	----
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	----	----	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	----	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	----	----	----

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Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	R04_20211220	R05_20211221	----	-----	-----
				Sampling date / time	20-Dec-2021 00:00	21-Dec-2021 00:00	----	---	---
Compound	CAS Number	LOR	Unit		ES2146990-024	ES2146990-025	--------	------	------
					Result	Result	---	---	---
EP231C: Perfluoroalkyl Sulfonamides - Continued									
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L		<0.05	<0.05	----	----	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L		<0.05	<0.05	----	----	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L		<0.02	<0.02	----	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L		<0.02	<0.02	----	----	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L		<0.05	<0.05	----	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L		<0.05	<0.05	----	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L		<0.05	<0.05	----	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L		<0.05	<0.05	----	----	----
EP231P: PFAS Sums									
Sum of PFAS	----	0.01	µg/L		<0.01	<0.01	----	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L		<0.01	<0.01	----	----	----
Sum of PFAS (WA DER List)	----	0.01	µg/L		<0.01	<0.01	----	----	----
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	2	%		115	81.6	----	----	----
Toluene-D8	2037-26-5	2	%		114	93.8	----	----	----
4-Bromofluorobenzene	460-00-4	2	%		116	90.4	----	----	----
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.02	%		109	104	----	----	----
13C8-PFOA	----	0.02	%		116	114	----	----	----

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Analytical Results

Descriptive Results

Sub-Matrix: **SOIL**

Method: Compound	Sample ID - Sampling date / time	Analytical Results
EA200: AS 4964 - 2004 Identification of Asbestos in Soils		
EA200: Description	BUR_BH109_0.2 - 20-Dec-2021 00:00	Soil sample.
EA200: Description	BUR_BH113_0.2 - 20-Dec-2021 00:00	Soil sample.
EA200: Description	BUR_BH114_0.2 - 20-Dec-2021 00:00	Soil sample.
EA200: Description	BUR_BH115_0.2 - 21-Dec-2021 00:00	Soil sample.
EA200: Description	BUR_BH117_0.2 - 21-Dec-2021 00:00	Soil sample.
EA200: Description	BUR_BH125_0.2 - 21-Dec-2021 00:00	Soil sample.
EA200: Description	BUR_BH101_0.1 - 21-Dec-2021 00:00	Soil sample.
EA200: Description	BUR_BH112_0.2 - 21-Dec-2021 00:00	Soil sample.

Sub-Matrix: **SOLID**

Method: Compound	Sample ID - Sampling date / time	Analytical Results
EA200: AS 4964 - 2004 Identification of Asbestos in bulk samples		
EA200: Description	BUR_BH116_0.2 ACM - 21-Dec-2021 00:00	One piece of asbestos cement sheeting approximately 140x80x5mm.

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Surrogate Control Limits

Sub-Matrix: **SOIL**

Compound	CAS Number	Recovery Limits (%) Low	High
EP066S: PCB Surrogate			
Decachlorobiphenyl	2051-24-3	39	149
EP068S: Organochlorine Pesticide Surrogate			
Dibromo-DDE	21655-73-2	49	147
EP068T: Organophosphorus Pesticide Surrogate			
DEF	78-48-8	35	143
EP074S: VOC Surrogates			
1.2-Dichloroethane-D4	17060-07-0	64	130
Toluene-D8	2037-26-5	66	136
4-Bromofluorobenzene	460-00-4	60	122
EP075(SIM)S: Phenolic Compound Surrogates			
Phenol-d6	13127-88-3	63	123
2-Chlorophenol-D4	93951-73-6	66	122
2.4.6-Tribromophenol	118-79-6	40	138
EP075(SIM)T: PAH Surrogates			
2-Fluorobiphenyl	321-60-8	70	122
Anthracene-d10	1719-06-8	66	128
4-Terphenyl-d14	1718-51-0	65	129
EP080S: TPH(V)/BTEX Surrogates			
1.2-Dichloroethane-D4	17060-07-0	73	133
Toluene-D8	2037-26-5	74	132
4-Bromofluorobenzene	460-00-4	72	130
EP231S: PFAS Surrogate			
13C4-PFOS	----	60	120
13C8-PFOA	----	60	120

Sub-Matrix: **WATER**

Compound	CAS Number	Recovery Limits (%) Low	High
EP080S: TPH(V)/BTEX Surrogates			
1.2-Dichloroethane-D4	17060-07-0	71	137
Toluene-D8	2037-26-5	79	131
4-Bromofluorobenzene	460-00-4	70	128
EP231S: PFAS Surrogate			
13C4-PFOS	----	60	120
13C8-PFOA	—-	60	120

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Inter-Laboratory Testing

Analysis conducted by ALS Newcastle, NATA accreditation no. 825, site no. 1656 (Chemistry) 9854 (Biology).

(SOIL) EA200: AS 4964 - 2004 Identification of Asbestos in Soils

(SOLID) EA200: AS 4964 - 2004 Identification of Asbestos in bulk samples

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ALS Environmental

QUALITY CONTROL REPORT

Work Order	: **ES2146990**	Page	: 1 of 57
Amendment	: **3**		
Client	: **ENVIRONMENTAL RESOURCES MANAGEMENT (ERM)**	Laboratory	: Environmental Division Sydney
Contact	: MS JESSICA LAWRENCE	Contact	: Customer Services ES
Address	: LEVEL 15 309 KENT STREET SYDNEY NSW AUSTRALIA 2000	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: +61 02 8584 8888	Telephone	: +61-2-8784 8555
Project	: 0577577 - Burwood	Date Samples Received	: 22-Dec-2021
Order number	: ----	Date Analysis Commenced	: 23-Dec-2021
C-O-C number	: ----	Issue Date	: 02-Feb-2022
Sampler	: TRISTAN RODRIGUES		
Site	: ----		
Quote number	: EN/114		
No. of samples received	: 58		
No. of samples analysed	: 51		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Alana Smylie	Asbestos Identifier	Newcastle - Asbestos, Mayfield West, NSW
Alex Rossi	Organic Chemist	Sydney Organics, Smithfield, NSW
Evie Sidarta	Inorganic Chemist	Sydney Inorganics, Smithfield, NSW
Franco Lentini	LCMS Coordinator	Sydney Inorganics, Smithfield, NSW
Franco Lentini	LCMS Coordinator	Sydney Organics, Smithfield, NSW
Wisam Marassa	Inorganics Coordinator	Sydney Inorganics, Smithfield, NSW

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General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis. Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Key : Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot
CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
RPD = Relative Percentage Difference
# = Indicates failed QC

Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 4102399)									
ES2146990-001	BUR_BH109_0.2	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	5	3	41.6	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	8	7	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	19	17	10.2	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	48	25	62.1	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	34	19	58.6	No Limit
ES2146990-011	BUR_BH110_0.5	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	38	37	4.0	0% - 50%
		EG005T: Nickel	7440-02-0	2	mg/kg	8	5	38.2	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	12	17	31.7	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	10	11	11.4	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	34	32	8.5	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	7	<5	30.1	No Limit
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 4102401)									
ES2146990-021	BUR_BH114_5.0	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	9	10	18.6	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	44	50	12.1	0% - 20%
		EG005T: Arsenic	7440-38-2	5	mg/kg	11	9	15.6	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	43	46	8.3	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	26	30	14.0	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	190	212	11.0	0% - 20%
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 4103630)									
ES2146169-001	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit

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Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 4103630) - continued									
ES2146169-001	Anonymous	EG005T: Chromium	7440-47-3	2	mg/kg	14	15	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	23	24	0.0	0% - 50%
		EG005T: Arsenic	7440-38-2	5	mg/kg	8	8	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	35	39	12.1	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	27	31	11.5	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	111	108	2.9	0% - 20%
ES2146990-030	BUR_BH115_5.0	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	11	15	26.9	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	26	31	14.6	0% - 50%
		EG005T: Arsenic	7440-38-2	5	mg/kg	9	10	18.5	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	56	58	3.2	0% - 50%
		EG005T: Lead	7439-92-1	5	mg/kg	19	24	25.4	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	115	130	12.3	0% - 20%
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 4103631)									
ES2146990-040	BUR_BH101_0.1	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	17	18	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	20	24	18.4	0% - 50%
		EG005T: Arsenic	7440-38-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	22	33	39.8	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	45	57	22.7	0% - 50%
		EG005T: Zinc	7440-66-6	5	mg/kg	59	68	14.1	0% - 50%
ES2147189-001	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	6	6	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	4	4	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	9	8	0.0	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	19	21	12.5	No Limit
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 4102403)									
ES2146990-003	BUR_BH109_1.0	EA055: Moisture Content	----	0.1	%	23.3	24.1	3.5	0% - 20%
ES2146990-014	BUR_BH113_0.2	EA055: Moisture Content	----	0.1	%	19.4	18.4	4.8	0% - 50%
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 4102404)									
ES2146990-023	BUR_BH114_15.0	EA055: Moisture Content	----	0.1	%	6.3	7.2	12.7	No Limit
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 4103633)									
ES2146990-029	BUR_BH115_1.0	EA055: Moisture Content	----	0.1	%	29.3	29.2	0.4	0% - 20%
ES2146990-040	BUR_BH101_0.1	EA055: Moisture Content	----	0.1	%	12.6	13.4	6.1	0% - 20%
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 4103634)									
ES2147007-001	Anonymous	EA055: Moisture Content	----	0.1	%	14.9	12.9	14.2	0% - 50%
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 4104525)									

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Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 4104525) - continued									
EB2137410-021	Anonymous	EA055: Moisture Content	----	0.1	%	15.6	17.1	9.0	0% - 50%
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 4102400)									
ES2146990-001	BUR_BH109_0.2	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
ES2146990-011	BUR_BH110_0.5	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 4102402)									
ES2146990-021	BUR_BH114_5.0	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 4103629)									
ES2146169-001	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
ES2146990-030	BUR_BH115_5.0	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 4103632)									
ES2146990-040	BUR_BH101_0.1	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
ES2147189-001	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP066: Polychlorinated Biphenyls (PCB) (QC Lot: 4098563)									
ES2146990-001	BUR_BH109_0.2	EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
ES2146990-011	BUR_BH110_0.5	EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP066: Polychlorinated Biphenyls (PCB) (QC Lot: 4098659)									
ES2146990-027	BUR_BH115_0.2	EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
ES2146990-037	BUR_BH125_0.2	EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP066: Polychlorinated Biphenyls (PCB) (QC Lot: 4098680)									
ES2146990-021	BUR_BH114_5.0	EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
ES2147023-061	Anonymous	EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP066: Polychlorinated Biphenyls (PCB) (QC Lot: 4102081)									
ES2146918-001	Anonymous	EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP068A: Organochlorine Pesticides (OC) (QC Lot: 4098562)									
ES2146990-001	BUR_BH109_0.2	EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit

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Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP068A: Organochlorine Pesticides (OC) (QC Lot: 4098562) - continued									
ES2146990-001	BUR_BH109_0.2	EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
ES2146990-011	BUR_BH110_0.5	EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
EP068A: Organochlorine Pesticides (OC) (QC Lot: 4098658)									
ES2146990-027	BUR_BH115_0.2	EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit

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Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP068A: Organochlorine Pesticides (OC) (QC Lot: 4098658) - continued									
ES2146990-027	BUR_BH115_0.2	EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
ES2146990-037	BUR_BH125_0.2	EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
EP068A: Organochlorine Pesticides (OC) (QC Lot: 4098679)									
ES2146990-021	BUR_BH114_5.0	EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	0.0	No Limit

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Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP068A: Organochlorine Pesticides (OC) (QC Lot: 4098679) - continued									
ES2146990-021	BUR_BH114_5.0	EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
ES2147023-061	Anonymous	EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
EP068A: Organochlorine Pesticides (OC) (QC Lot: 4102080)									
ES2146918-001	Anonymous	EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit

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Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP068A: Organochlorine Pesticides (OC) (QC Lot: 4102080) - continued									
ES2146918-001	Anonymous	EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
EP068B: Organophosphorus Pesticides (OP) (QC Lot: 4098562)									
ES2146990-001	BUR_BH109_0.2	EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
ES2146990-011	BUR_BH110_0.5	EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit

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Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP068B: Organophosphorus Pesticides (OP) (QC Lot: 4098562) - continued									
ES2146990-011	BUR_BH110_0.5	EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
EP068B: Organophosphorus Pesticides (OP) (QC Lot: 4098658)									
ES2146990-027	BUR_BH115_0.2	EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
ES2146990-037	BUR_BH125_0.2	EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit

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Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP068B: Organophosphorus Pesticides (OP) (QC Lot: 4098658) - continued									
ES2146990-037	BUR_BH125_0.2	EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
EP068B: Organophosphorus Pesticides (OP) (QC Lot: 4098679)									
ES2146990-021	BUR_BH114_5.0	EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
ES2147023-061	Anonymous	EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit

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Sub-Matrix: **SOIL**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP068B: Organophosphorus Pesticides (OP) (QC Lot: 4098679) - continued									
ES2147023-061	Anonymous	EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
EP068B: Organophosphorus Pesticides (OP) (QC Lot: 4102080)									
ES2146918-001	Anonymous	EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
EP074A: Monocyclic Aromatic Hydrocarbons (QC Lot: 4097168)									
ES2146990-001	BUR_BH109_0.2	EP074: Styrene	100-42-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Isopropylbenzene	98-82-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: n-Propylbenzene	103-65-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: sec-Butylbenzene	135-98-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

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Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP074A: Monocyclic Aromatic Hydrocarbons (QC Lot: 4097168) - continued									
ES2146990-001	BUR_BH109_0.2	EP074: tert-Butylbenzene	98-06-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: p-Isopropyltoluene	99-87-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: n-Butylbenzene	104-51-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
ES2146990-022	BUR_BH114_10.0	EP074: Styrene	100-42-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Isopropylbenzene	98-82-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: n-Propylbenzene	103-65-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: sec-Butylbenzene	135-98-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: tert-Butylbenzene	98-06-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: p-Isopropyltoluene	99-87-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: n-Butylbenzene	104-51-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP074A: Monocyclic Aromatic Hydrocarbons (QC Lot: 4097811)									
ES2146739-001	Anonymous	EP074: Styrene	100-42-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Isopropylbenzene	98-82-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: n-Propylbenzene	103-65-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: sec-Butylbenzene	135-98-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: tert-Butylbenzene	98-06-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: p-Isopropyltoluene	99-87-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: n-Butylbenzene	104-51-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP074B: Oxygenated Compounds (QC Lot: 4097168)									
ES2146990-001	BUR_BH109_0.2	EP074: Vinyl Acetate	108-05-4	5	mg/kg	<5	<5	0.0	No Limit
		EP074: 2-Butanone (MEK)	78-93-3	5	mg/kg	<5	<5	0.0	No Limit
		EP074: 4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	<5	<5	0.0	No Limit
		EP074: 2-Hexanone (MBK)	591-78-6	5	mg/kg	<5	<5	0.0	No Limit
ES2146990-022	BUR_BH114_10.0	EP074: Vinyl Acetate	108-05-4	5	mg/kg	<5	<5	0.0	No Limit
		EP074: 2-Butanone (MEK)	78-93-3	5	mg/kg	<5	<5	0.0	No Limit
		EP074: 4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	<5	<5	0.0	No Limit
		EP074: 2-Hexanone (MBK)	591-78-6	5	mg/kg	<5	<5	0.0	No Limit
EP074B: Oxygenated Compounds (QC Lot: 4097811)									
ES2146739-001	Anonymous	EP074: Vinyl Acetate	108-05-4	5	mg/kg	<5	<5	0.0	No Limit
		EP074: 2-Butanone (MEK)	78-93-3	5	mg/kg	<5	<5	0.0	No Limit
		EP074: 4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	<5	<5	0.0	No Limit
		EP074: 2-Hexanone (MBK)	591-78-6	5	mg/kg	<5	<5	0.0	No Limit
EP074C: Sulfonated Compounds (QC Lot: 4097168)									
ES2146990-001	BUR_BH109_0.2	EP074: Carbon disulfide	75-15-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
ES2146990-022	BUR_BH114_10.0	EP074: Carbon disulfide	75-15-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

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Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP074C: Sulfonated Compounds (QC Lot: 4097811)									
ES2146739-001	Anonymous	EP074: Carbon disulfide	75-15-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP074D: Fumigants (QC Lot: 4097168)									
ES2146990-001	BUR_BH109_0.2	EP074: 2.2-Dichloropropane	594-20-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dichloropropane	78-87-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
ES2146990-022	BUR_BH114_10.0	EP074: 2.2-Dichloropropane	594-20-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dichloropropane	78-87-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP074D: Fumigants (QC Lot: 4097811)									
ES2146739-001	Anonymous	EP074: 2.2-Dichloropropane	594-20-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dichloropropane	78-87-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP074E: Halogenated Aliphatic Compounds (QC Lot: 4097168)									
ES2146990-001	BUR_BH109_0.2	EP074: 1.1-Dichloroethene	75-35-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Iodomethane	74-88-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1-Dichloroethane	75-34-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1-Dichloropropylene	563-58-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Carbon Tetrachloride	56-23-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dichloroethane	107-06-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Trichloroethene	79-01-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Dibromomethane	74-95-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.3-Dichloropropane	142-28-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Tetrachloroethene	127-18-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Pentachloroethane	76-01-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

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Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP074E: Halogenated Aliphatic Compounds (QC Lot: 4097168) - continued									
ES2146990-001	BUR_BH109_0.2	EP074: Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Dichlorodifluoromethane	75-71-8	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Chloromethane	74-87-3	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Vinyl chloride	75-01-4	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Bromomethane	74-83-9	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Chloroethane	75-00-3	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Trichlorofluoromethane	75-69-4	5	mg/kg	<5	<5	0.0	No Limit
ES2146990-022	BUR_BH114_10.0	EP074: 1.1-Dichloroethene	75-35-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Iodomethane	74-88-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1-Dichloroethane	75-34-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1-Dichloropropylene	563-58-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Carbon Tetrachloride	56-23-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dichloroethane	107-06-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Trichloroethene	79-01-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Dibromomethane	74-95-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.3-Dichloropropane	142-28-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Tetrachloroethene	127-18-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Pentachloroethane	76-01-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Dichlorodifluoromethane	75-71-8	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Chloromethane	74-87-3	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Vinyl chloride	75-01-4	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Bromomethane	74-83-9	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Chloroethane	75-00-3	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Trichlorofluoromethane	75-69-4	5	mg/kg	<5	<5	0.0	No Limit
EP074E: Halogenated Aliphatic Compounds (QC Lot: 4097811)									
ES2146739-001	Anonymous	EP074: 1.1-Dichloroethene	75-35-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Iodomethane	74-88-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1-Dichloroethane	75-34-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

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Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP074E: Halogenated Aliphatic Compounds (QC Lot: 4097811) - continued									
ES2146739-001	Anonymous	EP074: cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1-Dichloropropylene	563-58-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Carbon Tetrachloride	56-23-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dichloroethane	107-06-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Trichloroethene	79-01-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Dibromomethane	74-95-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.3-Dichloropropane	142-28-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Tetrachloroethene	127-18-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Pentachloroethane	76-01-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Dichlorodifluoromethane	75-71-8	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Chloromethane	74-87-3	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Vinyl chloride	75-01-4	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Bromomethane	74-83-9	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Chloroethane	75-00-3	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Trichlorofluoromethane	75-69-4	5	mg/kg	<5	<5	0.0	No Limit
EP074F: Halogenated Aromatic Compounds (QC Lot: 4097168)									
ES2146990-001	BUR_BH109_0.2	EP074: Chlorobenzene	108-90-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Bromobenzene	108-86-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 2-Chlorotoluene	95-49-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 4-Chlorotoluene	106-43-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
ES2146990-022	BUR_BH114_10.0	EP074: Chlorobenzene	108-90-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Bromobenzene	108-86-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 2-Chlorotoluene	95-49-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 4-Chlorotoluene	106-43-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

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Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP074F: Halogenated Aromatic Compounds (QC Lot: 4097168) - continued									
ES2146990-022	BUR_BH114_10.0	EP074: 1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP074F: Halogenated Aromatic Compounds (QC Lot: 4097811)									
ES2146739-001	Anonymous	EP074: Chlorobenzene	108-90-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Bromobenzene	108-86-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 2-Chlorotoluene	95-49-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 4-Chlorotoluene	106-43-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP074G: Trihalomethanes (QC Lot: 4097168)									
ES2146990-001	BUR_BH109_0.2	EP074: Chloroform	67-66-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Bromodichloromethane	75-27-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Dibromochloromethane	124-48-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Bromoform	75-25-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
ES2146990-022	BUR_BH114_10.0	EP074: Chloroform	67-66-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Bromodichloromethane	75-27-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Dibromochloromethane	124-48-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Bromoform	75-25-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP074G: Trihalomethanes (QC Lot: 4097811)									
ES2146739-001	Anonymous	EP074: Chloroform	67-66-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Bromodichloromethane	75-27-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Dibromochloromethane	124-48-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Bromoform	75-25-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP074H: Naphthalene (QC Lot: 4097168)									
ES2146990-001	BUR_BH109_0.2	EP074: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
ES2146990-022	BUR_BH114_10.0	EP074: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
EP074H: Naphthalene (QC Lot: 4097811)									
ES2146739-001	Anonymous	EP074: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 4098561)									
ES2146990-001	BUR_BH109_0.2	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

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Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 4098561) - continued									
ES2146990-001	BUR_BH109_0.2	EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
ES2146990-011	BUR_BH110_0.5	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 4098657)									
ES2146990-027	BUR_BH115_0.2	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	0.6	0.7	21.3	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	3.6	4.1	11.8	No Limit

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Sub-Matrix: **SOIL**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 4098657) - continued									
ES2146990-027	BUR_BH115_0.2	EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	1.0	1.1	9.7	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	7.1	7.9	10.6	0% - 50%
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	6.7	6.8	2.4	0% - 50%
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	3.1	3.5	12.3	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	2.5	2.7	6.9	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	3.1	3.4	11.7	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	1.4	1.8	28.2	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	2.6	2.8	6.8	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	1.5	1.7	13.5	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	1.7	1.8	0.0	No Limit
		EP075(SIM): Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	34.9	38.3	9.3	0% - 20%
		EP075(SIM): Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	3.6	3.9	9.0	No Limit
ES2146990-037	BUR_BH125_0.2	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	0.7	0.7	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	3.4	3.4	0.0	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	1.0	1.0	0.0	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	6.1	6.6	8.2	0% - 50%
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	6.1	6.5	7.5	0% - 50%
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	3.2	3.1	3.6	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	3.0	3.1	0.0	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	4.1	4.1	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	1.5	1.7	10.9	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	3.6	3.6	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	2.0	2.0	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	2.2	2.3	0.0	No Limit
		EP075(SIM): Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	36.9	38.1	3.2	0% - 20%
		EP075(SIM): Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	4.7	4.7	0.0	No Limit
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 4098678)									
ES2146990-021	BUR_BH114_5.0	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

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Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 4098678) - continued									
ES2146990-021	BUR_BH114_5.0	EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
ES2147023-061	Anonymous	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	0.9	0.8	16.8	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	2.9	2.9	0.0	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	2.6	2.8	8.2	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	1.2	1.4	11.7	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	1.2	1.3	9.5	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	2.0	2.1	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	0.7	0.7	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	1.4	1.5	8.3	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	1.1	1.2	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	1.3	1.5	12.7	No Limit
		EP075(SIM): Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	15.3	16.2	5.7	0% - 20%
		EP075(SIM): Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	1.9	2.1	7.2	No Limit
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 4102078)									
ES2147189-001	Anonymous	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

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Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 4102078) - continued									
ES2147189-001	Anonymous	EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
ES2146918-001	Anonymous	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4097167)									
ES2146990-001	BUR_BH109_0.2	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
ES2146990-022	BUR_BH114_10.0	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit

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Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4097812)									
ES2146739-001	Anonymous	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4098280)									
ES2146990-002	BUR_BH109_0.5	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
ES2146990-021	BUR_BH114_5.0	EP080: C6 - C9 Fraction	----	10	mg/kg	16	13	22.1	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4098560)									
ES2146990-001	BUR_BH109_0.2	EP071: C15 - C28 Fraction	----	100	mg/kg	110	130	14.5	No Limit
		EP071: C29 - C36 Fraction	----	100	mg/kg	330	370	11.5	No Limit
		EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
ES2146990-011	BUR_BH110_0.5	EP071: C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4098656)									
ES2146990-027	BUR_BH115_0.2	EP071: C15 - C28 Fraction	----	100	mg/kg	150	160	0.0	No Limit
		EP071: C29 - C36 Fraction	----	100	mg/kg	150	150	0.0	No Limit
		EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
ES2146990-037	BUR_BH125_0.2	EP071: C15 - C28 Fraction	----	100	mg/kg	160	170	8.7	No Limit
		EP071: C29 - C36 Fraction	----	100	mg/kg	130	140	0.0	No Limit
		EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4098677)									
ES2146990-021	BUR_BH114_5.0	EP071: C15 - C28 Fraction	----	100	mg/kg	180	210	12.8	No Limit
		EP071: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
ES2147023-061	Anonymous	EP071: C15 - C28 Fraction	----	100	mg/kg	110	110	0.0	No Limit
		EP071: C29 - C36 Fraction	----	100	mg/kg	200	160	20.6	No Limit
		EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4102079)									
ES2147189-001	Anonymous	EP071: C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
ES2146918-001	Anonymous	EP071: C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4102701)									
ES2146592-002	Anonymous	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
ES2147005-001	Anonymous	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4097167)									
ES2146990-001	BUR_BH109_0.2	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
ES2146990-022	BUR_BH114_10.0	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4097812)									

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Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4097812) - continued									
ES2146739-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4098280)									
ES2146990-002	BUR_BH109_0.5	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
ES2146990-021	BUR_BH114_5.0	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	26	22	18.5	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4098560)									
ES2146990-001	BUR_BH109_0.2	EP071: >C16 - C34 Fraction	----	100	mg/kg	300	340	10.8	No Limit
		EP071: >C34 - C40 Fraction	----	100	mg/kg	380	440	16.2	No Limit
		EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
ES2146990-011	BUR_BH110_0.5	EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4098656)									
ES2146990-027	BUR_BH115_0.2	EP071: >C16 - C34 Fraction	----	100	mg/kg	250	260	0.0	No Limit
		EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	110	0.0	No Limit
		EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
ES2146990-037	BUR_BH125_0.2	EP071: >C16 - C34 Fraction	----	100	mg/kg	240	260	7.9	No Limit
		EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4098677)									
ES2146990-021	BUR_BH114_5.0	EP071: >C16 - C34 Fraction	----	100	mg/kg	180	210	14.0	No Limit
		EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C10 - C16 Fraction	----	50	mg/kg	70	70	0.0	No Limit
ES2147023-061	Anonymous	EP071: >C16 - C34 Fraction	----	100	mg/kg	230	200	13.0	No Limit
		EP071: >C34 - C40 Fraction	----	100	mg/kg	190	130	36.3	No Limit
		EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4102079)									
ES2147189-001	Anonymous	EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
ES2146918-001	Anonymous	EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4102701)									
ES2146592-002	Anonymous	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
ES2147005-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
EP080: BTEXN (QC Lot: 4097167)									
ES2146990-001	BUR_BH109_0.2	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

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Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP080: BTEXN (QC Lot: 4097167) - continued									
ES2146990-001	BUR_BH109_0.2	EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
ES2146990-022	BUR_BH114_10.0	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
EP080: BTEXN (QC Lot: 4097812)									
ES2146739-001	Anonymous	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
EP080: BTEXN (QC Lot: 4098280)									
ES2146990-002	BUR_BH109_0.5	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
ES2146990-021	BUR_BH114_5.0	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
EP080: BTEXN (QC Lot: 4102701)									
ES2146592-002	Anonymous	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

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Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP080: BTEXN (QC Lot: 4102701) - continued									
ES2146592-002	Anonymous	EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
ES2147005-001	Anonymous	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 4104679)									
ES2146990-001	BUR_BH109_0.2	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
ES2146990-023	BUR_BH114_15.0	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 4107614)									
ES2146990-046	BUR_BH112_5.0	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4104679)									
ES2146990-001	BUR_BH109_0.2	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4104679) - continued									
ES2146990-001	BUR_BH109_0.2	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<5 µg/kg	<0.005	0.0	No Limit
ES2146990-023	BUR_BH114_15.0	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<5 µg/kg	<0.005	0.0	No Limit
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4107614)									
ES2146990-046	BUR_BH112_5.0	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<5 µg/kg	<0.005	0.0	No Limit
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4104679)									
ES2146990-001	BUR_BH109_0.2	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
ES2146990-023	BUR_BH114_15.0	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4104679) - continued									
ES2146990-023	BUR_BH114_15.0	EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4107614)									
ES2146990-046	BUR_BH112_5.0	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4104679)									
ES2146990-001	BUR_BH109_0.2	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
ES2146990-023	BUR_BH114_15.0	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit

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Sub-Matrix: **SOIL**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4104679) - continued									
ES2146990-023	BUR_BH114_15.0	EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4107614)									
ES2146990-046	BUR_BH112_5.0	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit

Sub-Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EG020T: Total Metals by ICP-MS (QC Lot: 4105888)									
ES2147090-003	Anonymous	EG020A-T: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
		EG020A-T: Arsenic	7440-38-2	0.001	mg/L	0.026	0.027	0.0	0% - 20%
		EG020A-T: Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Copper	7440-50-8	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Lead	7439-92-1	0.001	mg/L	0.001	0.004	97.8	No Limit
		EG020A-T: Nickel	7440-02-0	0.001	mg/L	0.041	0.039	5.7	0% - 20%
		EG020A-T: Zinc	7440-66-6	0.005	mg/L	0.139	0.147	5.3	0% - 20%
ES2147389-012	Anonymous	EG020A-T: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
		EG020A-T: Arsenic	7440-38-2	0.001	mg/L	0.001	0.001	0.0	No Limit
		EG020A-T: Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Copper	7440-50-8	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Nickel	7440-02-0	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Zinc	7440-66-6	0.005	mg/L	<0.005	<0.005	0.0	No Limit
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 4104356)									
ES2146869-002	Anonymous	EG035T: Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
ES2146966-001	Anonymous	EG035T: Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4100930)									
ES2146731-001	Anonymous	EP080: C6 - C9 Fraction	----	20	µg/L	<20	<20	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4102634)									
ES2146997-001	Anonymous	EP080: C6 - C9 Fraction	----	20	µg/L	40	40	0.0	No Limit
ES2146997-013	Anonymous	EP080: C6 - C9 Fraction	----	20	µg/L	<20	<20	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4100930)									
ES2146731-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	<20	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4102634)									

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Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4102634) - continued									
ES2146997-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	<20	0.0	No Limit
ES2146997-013	Anonymous	EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	<20	0.0	No Limit
EP080: BTEXN (QC Lot: 4100930)									
ES2146731-001	Anonymous	EP080: Benzene	71-43-2	1	µg/L	<1	<1	0.0	No Limit
		EP080: Toluene	108-88-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	2	µg/L	<2	<2	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	2	µg/L	<2	<2	0.0	No Limit
		EP080: Naphthalene	91-20-3	5	µg/L	<5	<5	0.0	No Limit
EP080: BTEXN (QC Lot: 4102634)									
ES2146997-001	Anonymous	EP080: Benzene	71-43-2	1	µg/L	<1	<1	0.0	No Limit
		EP080: Toluene	108-88-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	2	µg/L	<2	<2	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	2	µg/L	<2	<2	0.0	No Limit
		EP080: Naphthalene	91-20-3	5	µg/L	<5	<5	0.0	No Limit
ES2146997-013	Anonymous	EP080: Benzene	71-43-2	1	µg/L	<1	<1	0.0	No Limit
		EP080: Toluene	108-88-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	2	µg/L	<2	<2	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	2	µg/L	<2	<2	0.0	No Limit
		EP080: Naphthalene	91-20-3	5	µg/L	<5	<5	0.0	No Limit
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 4107171)									
ES2146990-024	R04_20211220	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4107171)									
ES2146990-024	R04_20211220	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit

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Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4107171) - continued									
ES2146990-024	R04_20211220	EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	0.0	No Limit
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4107171)									
ES2146990-024	R04_20211220	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4107171)									
ES2146990-024	R04_20211220	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231P: PFAS Sums (QC Lot: 4107171)									
ES2146990-024	R04_20211220	EP231X: Sum of PFAS	----	0.01	µg/L	<0.01	<0.01	0.0	No Limit

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Method Blank (MB) and Laboratory Control Sample (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Sample (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

Sub-Matrix: **SOIL**

				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4102399)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	121.1 mg/kg	89.1	88.0	113
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	0.74 mg/kg	80.0	70.0	130
EG005T: Chromium	7440-47-3	2	mg/kg	<2	19.6 mg/kg	97.2	68.0	132
EG005T: Copper	7440-50-8	5	mg/kg	<5	52.9 mg/kg	95.2	89.0	111
EG005T: Lead	7439-92-1	5	mg/kg	<5	60.8 mg/kg	88.3	82.0	119
EG005T: Nickel	7440-02-0	2	mg/kg	<2	15.3 mg/kg	89.3	80.0	120
EG005T: Zinc	7440-66-6	5	mg/kg	<5	139.3 mg/kg	82.4	66.0	133
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4102401)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	121.1 mg/kg	89.9	88.0	113
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	0.74 mg/kg	75.1	70.0	130
EG005T: Chromium	7440-47-3	2	mg/kg	<2	19.6 mg/kg	96.3	68.0	132
EG005T: Copper	7440-50-8	5	mg/kg	<5	52.9 mg/kg	89.6	89.0	111
EG005T: Lead	7439-92-1	5	mg/kg	<5	60.8 mg/kg	82.5	82.0	119
EG005T: Nickel	7440-02-0	2	mg/kg	<2	15.3 mg/kg	88.4	80.0	120
EG005T: Zinc	7440-66-6	5	mg/kg	<5	139.3 mg/kg	79.2	66.0	133
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4103630)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	121.1 mg/kg	98.4	88.0	113
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	0.74 mg/kg	90.2	70.0	130
EG005T: Chromium	7440-47-3	2	mg/kg	<2	19.6 mg/kg	103	68.0	132
EG005T: Copper	7440-50-8	5	mg/kg	<5	52.9 mg/kg	111	89.0	111
EG005T: Lead	7439-92-1	5	mg/kg	<5	60.8 mg/kg	102	82.0	119
EG005T: Nickel	7440-02-0	2	mg/kg	<2	15.3 mg/kg	100	80.0	120
EG005T: Zinc	7440-66-6	5	mg/kg	<5	139.3 mg/kg	93.5	66.0	133
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4103631)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	121.1 mg/kg	98.7	88.0	113
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	0.74 mg/kg	87.6	70.0	130
EG005T: Chromium	7440-47-3	2	mg/kg	<2	19.6 mg/kg	104	68.0	132
EG005T: Copper	7440-50-8	5	mg/kg	<5	52.9 mg/kg	109	89.0	111
EG005T: Lead	7439-92-1	5	mg/kg	<5	60.8 mg/kg	102	82.0	119
EG005T: Nickel	7440-02-0	2	mg/kg	<2	15.3 mg/kg	100	80.0	120
EG005T: Zinc	7440-66-6	5	mg/kg	<5	139.3 mg/kg	94.8	66.0	133
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4102400)								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.087 mg/kg	90.2	70.0	125
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4102402)								

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Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4102402) - continued								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.087 mg/kg	101	70.0	125
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4103629)								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.087 mg/kg	92.5	70.0	125
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4103632)								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.087 mg/kg	91.4	70.0	125
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 4098563)								
EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	1 mg/kg	89.0	62.0	126
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 4098659)								
EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	1 mg/kg	87.5	62.0	126
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 4098680)								
EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	1 mg/kg	102	62.0	126
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 4102081)								
EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	1 mg/kg	88.0	62.0	126
EP068A: Organochlorine Pesticides (OC) (QCLot: 4098562)								
EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	0.5 mg/kg	80.1	69.0	113
EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	0.5 mg/kg	79.3	65.0	117
EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	0.5 mg/kg	79.2	67.0	119
EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	0.5 mg/kg	80.1	68.0	116
EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	91.6	65.0	117
EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	0.5 mg/kg	83.1	67.0	115
EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	0.5 mg/kg	84.5	69.0	115
EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	0.5 mg/kg	87.8	62.0	118
EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	0.5 mg/kg	85.6	63.0	117
EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	0.5 mg/kg	83.0	66.0	116
EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	0.5 mg/kg	78.7	64.0	116
EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	0.5 mg/kg	88.6	66.0	116
EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	0.5 mg/kg	87.0	67.0	115
EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	0.5 mg/kg	90.8	67.0	123
EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	0.5 mg/kg	80.3	69.0	115
EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	0.5 mg/kg	86.1	69.0	121
EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	0.5 mg/kg	93.6	56.0	120
EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	0.5 mg/kg	87.1	62.0	124
EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	0.5 mg/kg	97.4	66.0	120
EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	0.5 mg/kg	82.8	64.0	122
EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	0.5 mg/kg	81.5	54.0	130
EP068A: Organochlorine Pesticides (OC) (QCLot: 4098658)								
EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	0.5 mg/kg	85.0	69.0	113

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Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report		
					Spike	Spike Recovery (%)	Acceptable Limits (%)
				Result	Concentration	LCS	Low	High
EP068A: Organochlorine Pesticides (OC) (QCLot: 4098658) - continued								
EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	0.5 mg/kg	81.9	65.0	117
EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	0.5 mg/kg	91.5	67.0	119
EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	0.5 mg/kg	91.3	68.0	116
EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	89.4	65.0	117
EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	0.5 mg/kg	80.7	67.0	115
EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	0.5 mg/kg	90.9	69.0	115
EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	0.5 mg/kg	83.8	62.0	118
EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	0.5 mg/kg	79.5	63.0	117
EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	0.5 mg/kg	78.1	66.0	116
EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	0.5 mg/kg	79.8	64.0	116
EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	0.5 mg/kg	75.7	66.0	116
EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	0.5 mg/kg	73.7	67.0	115
EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	0.5 mg/kg	89.9	67.0	123
EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	0.5 mg/kg	76.2	69.0	115
EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	0.5 mg/kg	81.0	69.0	121
EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	0.5 mg/kg	89.7	56.0	120
EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	0.5 mg/kg	91.1	62.0	124
EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	0.5 mg/kg	83.6	66.0	120
EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	0.5 mg/kg	98.5	64.0	122
EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	0.5 mg/kg	97.6	54.0	130
EP068A: Organochlorine Pesticides (OC) (QCLot: 4098679)								
EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	0.5 mg/kg	90.8	69.0	113
EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	0.5 mg/kg	86.5	65.0	117
EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	0.5 mg/kg	97.7	67.0	119
EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	0.5 mg/kg	96.0	68.0	116
EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	96.7	65.0	117
EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	0.5 mg/kg	85.5	67.0	115
EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	0.5 mg/kg	96.2	69.0	115
EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	0.5 mg/kg	94.4	62.0	118
EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	0.5 mg/kg	93.7	63.0	117
EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	0.5 mg/kg	99.1	66.0	116
EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	0.5 mg/kg	94.4	64.0	116
EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	0.5 mg/kg	94.5	66.0	116
EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	0.5 mg/kg	94.2	67.0	115
EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	0.5 mg/kg	78.0	67.0	123
EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	0.5 mg/kg	95.2	69.0	115
EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	0.5 mg/kg	99.9	69.0	121
EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	0.5 mg/kg	103	56.0	120
EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	0.5 mg/kg	90.4	62.0	124

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Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report		
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP068A: Organochlorine Pesticides (OC) (QCLot: 4098679) - continued								
EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	0.5 mg/kg	82.2	66.0	120
EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	0.5 mg/kg	96.2	64.0	122
EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	0.5 mg/kg	89.0	54.0	130
EP068A: Organochlorine Pesticides (OC) (QCLot: 4102080)								
EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	0.5 mg/kg	93.8	69.0	113
EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	0.5 mg/kg	83.0	65.0	117
EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	0.5 mg/kg	102	67.0	119
EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	0.5 mg/kg	102	68.0	116
EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	98.4	65.0	117
EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	0.5 mg/kg	85.7	67.0	115
EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	0.5 mg/kg	98.2	69.0	115
EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	0.5 mg/kg	87.6	62.0	118
EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	0.5 mg/kg	88.2	63.0	117
EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	0.5 mg/kg	89.0	66.0	116
EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	0.5 mg/kg	87.9	64.0	116
EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	0.5 mg/kg	87.9	66.0	116
EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	0.5 mg/kg	87.0	67.0	115
EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	0.5 mg/kg	84.6	67.0	123
EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	0.5 mg/kg	84.1	69.0	115
EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	0.5 mg/kg	82.7	69.0	121
EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	0.5 mg/kg	99.5	56.0	120
EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	0.5 mg/kg	90.9	62.0	124
EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	0.5 mg/kg	85.1	66.0	120
EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	0.5 mg/kg	102	64.0	122
EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	0.5 mg/kg	73.2	54.0	130
EP068B: Organophosphorus Pesticides (OP) (QCLot: 4098562)								
EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	0.5 mg/kg	79.0	59.0	119
EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	77.8	62.0	128
EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	0.5 mg/kg	64.5	54.0	126
EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	0.5 mg/kg	84.2	67.0	119
EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	0.5 mg/kg	87.0	70.0	120
EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	0.5 mg/kg	83.0	72.0	120
EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	0.5 mg/kg	80.5	68.0	120
EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	0.5 mg/kg	83.8	68.0	122
EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	0.5 mg/kg	83.6	69.0	117
EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	0.5 mg/kg	80.2	76.0	118
EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	0.5 mg/kg	85.2	64.0	122
EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	0.5 mg/kg	82.6	70.0	116
EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	0.5 mg/kg	84.3	69.0	121

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Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report		
					Spike	Spike Recovery (%)	Acceptable Limits (%)
				Result	Concentration	LCS	Low	High
EP068B: Organophosphorus Pesticides (OP) (QCLot: 4098562) - continued								
EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	0.5 mg/kg	79.0	66.0	118
EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	0.5 mg/kg	82.1	68.0	124
EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	0.5 mg/kg	80.8	62.0	112
EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	0.5 mg/kg	87.9	68.0	120
EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	0.5 mg/kg	76.1	65.0	127
EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	0.5 mg/kg	69.4	41.0	123
EP068B: Organophosphorus Pesticides (OP) (QCLot: 4098658)								
EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	0.5 mg/kg	99.3	59.0	119
EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	77.7	62.0	128
EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	0.5 mg/kg	62.1	54.0	126
EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	0.5 mg/kg	99.7	67.0	119
EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	0.5 mg/kg	87.8	70.0	120
EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	0.5 mg/kg	77.6	72.0	120
EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	0.5 mg/kg	73.0	68.0	120
EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	0.5 mg/kg	74.7	68.0	122
EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	0.5 mg/kg	85.9	69.0	117
EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	0.5 mg/kg	84.8	76.0	118
EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	0.5 mg/kg	98.3	64.0	122
EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	0.5 mg/kg	85.5	70.0	116
EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	0.5 mg/kg	90.9	69.0	121
EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	0.5 mg/kg	74.3	66.0	118
EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	0.5 mg/kg	109	68.0	124
EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	0.5 mg/kg	76.2	62.0	112
EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	0.5 mg/kg	76.1	68.0	120
EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	0.5 mg/kg	70.3	65.0	127
EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	0.5 mg/kg	78.4	41.0	123
EP068B: Organophosphorus Pesticides (OP) (QCLot: 4098679)								
EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	0.5 mg/kg	80.6	59.0	119
EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	72.2	62.0	128
EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	0.5 mg/kg	69.0	54.0	126
EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	0.5 mg/kg	91.4	67.0	119
EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	0.5 mg/kg	92.9	70.0	120
EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	0.5 mg/kg	84.6	72.0	120
EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	0.5 mg/kg	72.4	68.0	120
EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	0.5 mg/kg	84.6	68.0	122
EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	0.5 mg/kg	91.8	69.0	117
EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	0.5 mg/kg	91.5	76.0	118
EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	0.5 mg/kg	80.8	64.0	122
EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	0.5 mg/kg	88.4	70.0	116

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Sub-Matrix: **SOIL**

				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EP068B: Organophosphorus Pesticides (OP) (QCLot: 4098679) - continued								
EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	0.5 mg/kg	102	69.0	121
EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	0.5 mg/kg	87.8	66.0	118
EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	0.5 mg/kg	74.6	68.0	124
EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	0.5 mg/kg	91.7	62.0	112
EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	0.5 mg/kg	94.4	68.0	120
EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	0.5 mg/kg	77.7	65.0	127
EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	0.5 mg/kg	71.9	41.0	123
EP068B: Organophosphorus Pesticides (OP) (QCLot: 4102080)								
EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	0.5 mg/kg	114	59.0	119
EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	80.2	62.0	128
EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	0.5 mg/kg	95.9	54.0	126
EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	0.5 mg/kg	93.2	67.0	119
EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	0.5 mg/kg	99.7	70.0	120
EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	0.5 mg/kg	84.0	72.0	120
EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	0.5 mg/kg	87.4	68.0	120
EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	0.5 mg/kg	81.8	68.0	122
EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	0.5 mg/kg	86.4	69.0	117
EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	0.5 mg/kg	90.9	76.0	118
EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	0.5 mg/kg	83.4	64.0	122
EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	0.5 mg/kg	96.1	70.0	116
EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	0.5 mg/kg	85.1	69.0	121
EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	0.5 mg/kg	80.0	66.0	118
EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	0.5 mg/kg	89.5	68.0	124
EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	0.5 mg/kg	100	62.0	112
EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	0.5 mg/kg	78.6	68.0	120
EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	0.5 mg/kg	99.0	65.0	127
EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	0.5 mg/kg	79.6	41.0	123
EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 4097168)								
EP074: Styrene	100-42-5	0.5	mg/kg	<0.5	1 mg/kg	94.5	67.0	113
EP074: Isopropylbenzene	98-82-8	0.5	mg/kg	<0.5	1 mg/kg	97.2	65.0	117
EP074: n-Propylbenzene	103-65-1	0.5	mg/kg	<0.5	1 mg/kg	90.2	66.0	122
EP074: 1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	<0.5	1 mg/kg	91.7	68.0	118
EP074: sec-Butylbenzene	135-98-8	0.5	mg/kg	<0.5	1 mg/kg	93.2	69.0	119
EP074: 1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	<0.5	1 mg/kg	91.1	69.0	117
EP074: tert-Butylbenzene	98-06-6	0.5	mg/kg	<0.5	1 mg/kg	92.8	69.0	115
EP074: p-Isopropyltoluene	99-87-6	0.5	mg/kg	<0.5	1 mg/kg	93.1	66.0	118
EP074: n-Butylbenzene	104-51-8	0.5	mg/kg	<0.5	1 mg/kg	90.3	59.0	125
EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 4097811)								

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Sub-Matrix: **SOIL**

				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 4097811) - continued								
EP074: Styrene	100-42-5	0.5	mg/kg	<0.5	1 mg/kg	89.5	67.0	113
EP074: Isopropylbenzene	98-82-8	0.5	mg/kg	<0.5	1 mg/kg	93.2	65.0	117
EP074: n-Propylbenzene	103-65-1	0.5	mg/kg	<0.5	1 mg/kg	87.5	66.0	122
EP074: 1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	<0.5	1 mg/kg	88.2	68.0	118
EP074: sec-Butylbenzene	135-98-8	0.5	mg/kg	<0.5	1 mg/kg	91.3	69.0	119
EP074: 1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	<0.5	1 mg/kg	89.4	69.0	117
EP074: tert-Butylbenzene	98-06-6	0.5	mg/kg	<0.5	1 mg/kg	89.5	69.0	115
EP074: p-Isopropyltoluene	99-87-6	0.5	mg/kg	<0.5	1 mg/kg	89.1	66.0	118
EP074: n-Butylbenzene	104-51-8	0.5	mg/kg	<0.5	1 mg/kg	88.3	59.0	125
EP074B: Oxygenated Compounds (QCLot: 4097168)								
EP074: Vinyl Acetate	108-05-4	5	mg/kg	<5	10 mg/kg	114	29.6	156
EP074: 2-Butanone (MEK)	78-93-3	5	mg/kg	<5	10 mg/kg	77.2	58.0	136
EP074: 4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	<5	10 mg/kg	104	62.0	132
EP074: 2-Hexanone (MBK)	591-78-6	5	mg/kg	<5	10 mg/kg	87.2	54.0	136
EP074B: Oxygenated Compounds (QCLot: 4097811)								
EP074: Vinyl Acetate	108-05-4	5	mg/kg	<5	10 mg/kg	77.4	29.6	156
EP074: 2-Butanone (MEK)	78-93-3	5	mg/kg	<5	10 mg/kg	66.4	58.0	136
EP074: 4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	<5	10 mg/kg	92.7	62.0	132
EP074: 2-Hexanone (MBK)	591-78-6	5	mg/kg	<5	10 mg/kg	77.8	54.0	136
EP074C: Sulfonated Compounds (QCLot: 4097168)								
EP074: Carbon disulfide	75-15-0	0.5	mg/kg	<0.5	1 mg/kg	92.2	54.0	126
EP074C: Sulfonated Compounds (QCLot: 4097811)								
EP074: Carbon disulfide	75-15-0	0.5	mg/kg	<0.5	1 mg/kg	83.9	54.0	126
EP074D: Fumigants (QCLot: 4097168)								
EP074: 2.2-Dichloropropane	594-20-7	0.5	mg/kg	<0.5	1 mg/kg	96.4	60.0	126
EP074: 1.2-Dichloropropane	78-87-5	0.5	mg/kg	<0.5	1 mg/kg	95.1	68.0	124
EP074: cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	<0.5	1 mg/kg	93.4	51.0	119
EP074: trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	<0.5	1 mg/kg	96.5	52.0	114
EP074: 1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	<0.5	1 mg/kg	102	63.0	115
EP074D: Fumigants (QCLot: 4097811)								
EP074: 2.2-Dichloropropane	594-20-7	0.5	mg/kg	<0.5	1 mg/kg	84.8	60.0	126
EP074: 1.2-Dichloropropane	78-87-5	0.5	mg/kg	<0.5	1 mg/kg	91.3	68.0	124
EP074: cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	<0.5	1 mg/kg	83.8	51.0	119
EP074: trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	<0.5	1 mg/kg	86.3	52.0	114
EP074: 1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	<0.5	1 mg/kg	91.9	63.0	115
EP074E: Halogenated Aliphatic Compounds (QCLot: 4097168)								
EP074: Dichlorodifluoromethane	75-71-8	5	mg/kg	<5	10 mg/kg	83.0	30.0	148
EP074: Chloromethane	74-87-3	5	mg/kg	<5	10 mg/kg	93.4	41.0	141

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Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report		
					Spike	Spike Recovery (%)	Acceptable Limits (%)
				Result	Concentration	LCS	Low	High
EP074E: Halogenated Aliphatic Compounds (QCLot: 4097168) - continued								
EP074: Vinyl chloride	75-01-4	5	mg/kg	<5	10 mg/kg	90.2	43.0	147
EP074: Bromomethane	74-83-9	5	mg/kg	<5	10 mg/kg	60.2	47.0	141
EP074: Chloroethane	75-00-3	5	mg/kg	<5	10 mg/kg	93.0	49.0	143
EP074: Trichlorofluoromethane	75-69-4	5	mg/kg	<5	10 mg/kg	97.2	49.0	135
EP074: 1.1-Dichloroethene	75-35-4	0.5	mg/kg	<0.5	1 mg/kg	99.2	54.0	126
EP074: Iodomethane	74-88-4	0.5	mg/kg	<0.5	1 mg/kg	90.6	43.0	129
EP074: trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	<0.5	1 mg/kg	92.8	64.0	120
EP074: 1.1-Dichloroethane	75-34-3	0.5	mg/kg	<0.5	1 mg/kg	95.2	67.0	125
EP074: cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	<0.5	1 mg/kg	97.2	69.0	121
EP074: 1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	<0.5	1 mg/kg	96.5	65.0	117
EP074: 1.1-Dichloropropylene	563-58-6	0.5	mg/kg	<0.5	1 mg/kg	95.3	65.0	123
EP074: Carbon Tetrachloride	56-23-5	0.5	mg/kg	<0.5	1 mg/kg	97.6	59.0	125
EP074: 1.2-Dichloroethane	107-06-2	0.5	mg/kg	<0.5	1 mg/kg	102	65.0	125
EP074: Trichloroethene	79-01-6	0.5	mg/kg	<0.5	1 mg/kg	94.9	70.0	118
EP074: Dibromomethane	74-95-3	0.5	mg/kg	<0.5	1 mg/kg	100	68.0	118
EP074: 1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	<0.5	1 mg/kg	102	64.0	126
EP074: 1.3-Dichloropropane	142-28-9	0.5	mg/kg	<0.5	1 mg/kg	98.5	68.0	122
EP074: Tetrachloroethene	127-18-4	0.5	mg/kg	<0.5	1 mg/kg	80.2	67.0	143
EP074: 1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	<0.5	1 mg/kg	96.2	62.0	122
EP074: trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	<0.5	1 mg/kg	101	54.0	128
EP074: cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	<0.5	1 mg/kg	99.4	55.0	129
EP074: 1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	<0.5	1 mg/kg	108	65.0	121
EP074: 1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	<0.5	1 mg/kg	108	61.0	125
EP074: Pentachloroethane	76-01-7	0.5	mg/kg	<0.5	1 mg/kg	124	19.8	134
EP074: 1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	<0.5	1 mg/kg	97.7	53.0	129
EP074: Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	1 mg/kg	100	50.0	128
EP074E: Halogenated Aliphatic Compounds (QCLot: 4097811)								
EP074: Dichlorodifluoromethane	75-71-8	5	mg/kg	<5	10 mg/kg	51.6	30.0	148
EP074: Chloromethane	74-87-3	5	mg/kg	<5	10 mg/kg	81.1	41.0	141
EP074: Vinyl chloride	75-01-4	5	mg/kg	<5	10 mg/kg	84.0	43.0	147
EP074: Bromomethane	74-83-9	5	mg/kg	<5	10 mg/kg	114	47.0	141
EP074: Chloroethane	75-00-3	5	mg/kg	<5	10 mg/kg	88.3	49.0	143
EP074: Trichlorofluoromethane	75-69-4	5	mg/kg	<5	10 mg/kg	89.5	49.0	135
EP074: 1.1-Dichloroethene	75-35-4	0.5	mg/kg	<0.5	1 mg/kg	90.8	54.0	126
EP074: Iodomethane	74-88-4	0.5	mg/kg	<0.5	1 mg/kg	77.1	43.0	129
EP074: trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	<0.5	1 mg/kg	89.6	64.0	120
EP074: 1.1-Dichloroethane	75-34-3	0.5	mg/kg	<0.5	1 mg/kg	92.3	67.0	125
EP074: cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	<0.5	1 mg/kg	92.4	69.0	121
EP074: 1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	<0.5	1 mg/kg	91.5	65.0	117

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Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
				Result	Spike Concentration	Spike Recovery (%)	Acceptable Limits (%)	
						LCS	Low	High
EP074E: Halogenated Aliphatic Compounds (QCLot: 4097811) - continued								
EP074: 1.1-Dichloropropylene	563-58-6	0.5	mg/kg	<0.5	1 mg/kg	91.4	65.0	123
EP074: Carbon Tetrachloride	56-23-5	0.5	mg/kg	<0.5	1 mg/kg	91.3	59.0	125
EP074: 1.2-Dichloroethane	107-06-2	0.5	mg/kg	<0.5	1 mg/kg	93.8	65.0	125
EP074: Trichloroethene	79-01-6	0.5	mg/kg	<0.5	1 mg/kg	91.4	70.0	118
EP074: Dibromomethane	74-95-3	0.5	mg/kg	<0.5	1 mg/kg	91.2	68.0	118
EP074: 1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	<0.5	1 mg/kg	93.8	64.0	126
EP074: 1.3-Dichloropropane	142-28-9	0.5	mg/kg	<0.5	1 mg/kg	92.5	68.0	122
EP074: Tetrachloroethene	127-18-4	0.5	mg/kg	<0.5	1 mg/kg	78.1	67.0	143
EP074: 1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	<0.5	1 mg/kg	89.6	62.0	122
EP074: trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	<0.5	1 mg/kg	76.3	54.0	128
EP074: cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	<0.5	1 mg/kg	76.9	55.0	129
EP074: 1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	<0.5	1 mg/kg	96.6	65.0	121
EP074: 1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	<0.5	1 mg/kg	93.5	61.0	125
EP074: Pentachloroethane	76-01-7	0.5	mg/kg	<0.5	1 mg/kg	113	19.8	134
EP074: 1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	<0.5	1 mg/kg	92.5	53.0	129
EP074: Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	1 mg/kg	94.0	50.0	128
EP074F: Halogenated Aromatic Compounds (QCLot: 4097168)								
EP074: Chlorobenzene	108-90-7	0.5	mg/kg	<0.5	1 mg/kg	98.8	68.0	116
EP074: Bromobenzene	108-86-1	0.5	mg/kg	<0.5	1 mg/kg	93.8	70.0	114
EP074: 2-Chlorotoluene	95-49-8	0.5	mg/kg	<0.5	1 mg/kg	93.0	68.0	122
EP074: 4-Chlorotoluene	106-43-4	0.5	mg/kg	<0.5	1 mg/kg	92.0	67.0	123
EP074: 1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	1 mg/kg	95.2	70.0	116
EP074: 1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	1 mg/kg	95.5	67.0	117
EP074: 1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	1 mg/kg	97.7	70.0	114
EP074: 1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	1 mg/kg	98.4	48.0	122
EP074: 1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	<0.5	1 mg/kg	108	52.0	122
EP074F: Halogenated Aromatic Compounds (QCLot: 4097811)								
EP074: Chlorobenzene	108-90-7	0.5	mg/kg	<0.5	1 mg/kg	93.0	68.0	116
EP074: Bromobenzene	108-86-1	0.5	mg/kg	<0.5	1 mg/kg	89.1	70.0	114
EP074: 2-Chlorotoluene	95-49-8	0.5	mg/kg	<0.5	1 mg/kg	90.4	68.0	122
EP074: 4-Chlorotoluene	106-43-4	0.5	mg/kg	<0.5	1 mg/kg	89.8	67.0	123
EP074: 1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	1 mg/kg	91.1	70.0	116
EP074: 1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	1 mg/kg	90.5	67.0	117
EP074: 1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	1 mg/kg	91.6	70.0	114
EP074: 1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	1 mg/kg	90.8	48.0	122
EP074: 1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	<0.5	1 mg/kg	93.9	52.0	122
EP074G: Trihalomethanes (QCLot: 4097168)								
EP074: Chloroform	67-66-3	0.5	mg/kg	<0.5	1 mg/kg	99.5	66.0	124

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Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
				Result	Spike Concentration	Spike Recovery (%)	Acceptable Limits (%)	
						LCS	Low	High
EP074G: Trihalomethanes (QCLot: 4097168) - continued								
EP074: Bromodichloromethane	75-27-4	0.5	mg/kg	<0.5	1 mg/kg	96.2	61.0	121
EP074: Dibromochloromethane	124-48-1	0.5	mg/kg	<0.5	1 mg/kg	99.1	63.0	121
EP074: Bromoform	75-25-2	0.5	mg/kg	<0.5	1 mg/kg	102	60.0	126
EP074G: Trihalomethanes (QCLot: 4097811)								
EP074: Chloroform	67-66-3	0.5	mg/kg	<0.5	1 mg/kg	93.4	66.0	124
EP074: Bromodichloromethane	75-27-4	0.5	mg/kg	<0.5	1 mg/kg	90.0	61.0	121
EP074: Dibromochloromethane	124-48-1	0.5	mg/kg	<0.5	1 mg/kg	89.6	63.0	121
EP074: Bromoform	75-25-2	0.5	mg/kg	<0.5	1 mg/kg	88.9	60.0	126
EP074H: Naphthalene (QCLot: 4097168)								
EP074: Naphthalene	91-20-3	1	mg/kg	<1	1 mg/kg	112	67.0	129
EP074H: Naphthalene (QCLot: 4097811)								
EP074: Naphthalene	91-20-3	1	mg/kg	<1	1 mg/kg	94.2	67.0	129
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 4098561)								
EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	6 mg/kg	94.8	77.0	125
EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	6 mg/kg	89.6	72.0	124
EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	6 mg/kg	87.9	73.0	127
EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	6 mg/kg	88.4	72.0	126
EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	6 mg/kg	89.9	75.0	127
EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	6 mg/kg	97.5	77.0	127
EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	6 mg/kg	92.1	73.0	127
EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	6 mg/kg	98.7	74.0	128
EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	6 mg/kg	90.3	69.0	123
EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	6 mg/kg	98.2	75.0	127
EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	6 mg/kg	92.9	68.0	116
EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	6 mg/kg	99.7	74.0	126
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	6 mg/kg	88.8	70.0	126
EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	6 mg/kg	80.1	61.0	121
EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	6 mg/kg	79.2	62.0	118
EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	6 mg/kg	75.4	63.0	121
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 4098657)								
EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	6 mg/kg	93.6	77.0	125
EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	6 mg/kg	92.1	72.0	124
EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	6 mg/kg	88.5	73.0	127
EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	6 mg/kg	88.8	72.0	126
EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	6 mg/kg	90.1	75.0	127
EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	6 mg/kg	87.9	77.0	127
EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	6 mg/kg	92.1	73.0	127

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Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report		
				Result	Spike Concentration	Spike Recovery (%)	Acceptable Limits (%)
						LCS	Low	High
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 4098657) - continued								
EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	6 mg/kg	91.0	74.0	128
EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	6 mg/kg	92.1	69.0	123
EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	6 mg/kg	99.9	75.0	127
EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	6 mg/kg	88.8	68.0	116
EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	6 mg/kg	100	74.0	126
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	6 mg/kg	89.0	70.0	126
EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	6 mg/kg	96.4	61.0	121
EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	6 mg/kg	95.2	62.0	118
EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	6 mg/kg	93.3	63.0	121
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 4098678)								
EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	6 mg/kg	96.3	77.0	125
EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	6 mg/kg	97.6	72.0	124
EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	6 mg/kg	95.6	73.0	127
EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	6 mg/kg	98.6	72.0	126
EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	6 mg/kg	98.8	75.0	127
EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	6 mg/kg	94.2	77.0	127
EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	6 mg/kg	100	73.0	127
EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	6 mg/kg	95.8	74.0	128
EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	6 mg/kg	102	69.0	123
EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	6 mg/kg	101	75.0	127
EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	6 mg/kg	99.3	68.0	116
EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	6 mg/kg	101	74.0	126
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	6 mg/kg	92.7	70.0	126
EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	6 mg/kg	98.3	61.0	121
EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	6 mg/kg	95.4	62.0	118
EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	6 mg/kg	98.9	63.0	121
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 4102078)								
EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	6 mg/kg	99.0	77.0	125
EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	6 mg/kg	88.7	72.0	124
EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	6 mg/kg	96.2	73.0	127
EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	6 mg/kg	100.0	72.0	126
EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	6 mg/kg	101	75.0	127
EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	6 mg/kg	94.9	77.0	127
EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	6 mg/kg	100	73.0	127
EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	6 mg/kg	102	74.0	128
EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	6 mg/kg	91.1	69.0	123
EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	6 mg/kg	99.7	75.0	127

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Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 4102078) - continued								
EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	6 mg/kg	88.1	68.0	116
EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	6 mg/kg	95.4	74.0	126
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	6 mg/kg	92.5	70.0	126
EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	6 mg/kg	93.4	61.0	121
EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	6 mg/kg	94.8	62.0	118
EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	6 mg/kg	88.4	63.0	121
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4097167)								
EP080: C6 - C9 Fraction	----	10	mg/kg	<10	26 mg/kg	103	68.4	128
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4097812)								
EP080: C6 - C9 Fraction	----	10	mg/kg	<10	26 mg/kg	85.9	68.4	128
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4098280)								
EP080: C6 - C9 Fraction	----	10	mg/kg	<10	26 mg/kg	73.6	68.4	128
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4098560)								
EP071: C10 - C14 Fraction	----	50	mg/kg	<50	300 mg/kg	81.0	75.0	129
EP071: C15 - C28 Fraction	----	100	mg/kg	<100	450 mg/kg	101	77.0	131
EP071: C29 - C36 Fraction	----	100	mg/kg	<100	300 mg/kg	97.7	71.0	129
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4098656)								
EP071: C10 - C14 Fraction	----	50	mg/kg	<50	300 mg/kg	117	75.0	129
EP071: C15 - C28 Fraction	----	100	mg/kg	<100	450 mg/kg	106	77.0	131
EP071: C29 - C36 Fraction	----	100	mg/kg	<100	300 mg/kg	99.2	71.0	129
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4098677)								
EP071: C10 - C14 Fraction	----	50	mg/kg	<50	300 mg/kg	86.1	75.0	129
EP071: C15 - C28 Fraction	----	100	mg/kg	<100	450 mg/kg	86.3	77.0	131
EP071: C29 - C36 Fraction	----	100	mg/kg	<100	300 mg/kg	84.6	71.0	129
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4102079)								
EP071: C10 - C14 Fraction	----	50	mg/kg	<50	300 mg/kg	94.7	75.0	129
EP071: C15 - C28 Fraction	----	100	mg/kg	<100	450 mg/kg	92.3	77.0	131
EP071: C29 - C36 Fraction	----	100	mg/kg	<100	300 mg/kg	91.7	71.0	129
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4102701)								
EP080: C6 - C9 Fraction	----	10	mg/kg	<10	26 mg/kg	95.1	68.4	128
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4097167)								
EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	31 mg/kg	104	68.4	128
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4097812)								
EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	31 mg/kg	84.5	68.4	128
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4098280)								
EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	31 mg/kg	70.7	68.4	128

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Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
				Result	Spike Concentration	Spike Recovery (%)	Acceptable Limits (%)	
						LCS	Low	High
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4098560)								
EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	375 mg/kg	92.6	77.0	125
EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	525 mg/kg	109	74.0	138
EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	225 mg/kg	95.9	63.0	131
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4098656)								
EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	375 mg/kg	114	77.0	125
EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	525 mg/kg	102	74.0	138
EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	225 mg/kg	100	63.0	131
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4098677)								
EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	375 mg/kg	86.7	77.0	125
EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	525 mg/kg	85.0	74.0	138
EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	225 mg/kg	84.1	63.0	131
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4102079)								
EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	375 mg/kg	94.7	77.0	125
EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	525 mg/kg	91.3	74.0	138
EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	225 mg/kg	93.7	63.0	131
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4102701)								
EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	31 mg/kg	95.9	68.4	128
EP080: BTEXN (QCLot: 4097167)								
EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	1 mg/kg	104	62.0	116
EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	1 mg/kg	101	67.0	121
EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	1 mg/kg	103	65.0	117
EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	2 mg/kg	106	66.0	118
EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	1 mg/kg	107	68.0	120
EP080: Naphthalene	91-20-3	1	mg/kg	<1	1 mg/kg	80.0	63.0	119
EP080: BTEXN (QCLot: 4097812)								
EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	1 mg/kg	85.2	62.0	116
EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	1 mg/kg	88.5	67.0	121
EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	1 mg/kg	89.4	65.0	117
EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	2 mg/kg	89.1	66.0	118
EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	1 mg/kg	87.6	68.0	120
EP080: Naphthalene	91-20-3	1	mg/kg	<1	1 mg/kg	83.3	63.0	119
EP080: BTEXN (QCLot: 4098280)								
EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	1 mg/kg	89.2	62.0	116
EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	1 mg/kg	90.8	67.0	121
EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	1 mg/kg	84.8	65.0	117

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Sub-Matrix: **SOIL**

				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EP080: BTEXN (QCLot: 4098280) - continued								
EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	2 mg/kg	86.4	66.0	118
EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	1 mg/kg	82.5	68.0	120
EP080: Naphthalene	91-20-3	1	mg/kg	<1	1 mg/kg	83.6	63.0	119
EP080: BTEXN (QCLot: 4102701)								
EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	1 mg/kg	93.6	62.0	116
EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	1 mg/kg	100.0	67.0	121
EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	1 mg/kg	101	65.0	117
EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	2 mg/kg	98.6	66.0	118
EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	1 mg/kg	101	68.0	120
EP080: Naphthalene	91-20-3	1	mg/kg	<1	1 mg/kg	94.2	63.0	119
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4104679)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	0.00125 mg/kg	101	72.0	128
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	90.8	73.0	123
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	96.0	67.0	130
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	94.4	70.0	132
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	108	68.0	136
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	0.00125 mg/kg	99.2	59.0	134
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4107614)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	0.00125 mg/kg	120	72.0	128
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	115	73.0	123
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	108	67.0	130
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	114	70.0	132
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	115	68.0	136
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	0.00125 mg/kg	118	59.0	134
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4104679)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	0.00625 mg/kg	93.2	71.0	135
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	0.00125 mg/kg	110	69.0	132
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	111	70.0	132
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	110	71.0	131
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	121	69.0	133
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	106	72.0	129
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	0.00125 mg/kg	110	69.0	133
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	111	64.0	136
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	110	69.0	135
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	108	66.0	139
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	98.2	69.0	133

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Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report		
					Spike	Spike Recovery (%)	Acceptable Limits (%)
				Result	Concentration	LCS	Low	High
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4107614)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	0.00625 mg/kg	107	71.0	135
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	0.00125 mg/kg	116	69.0	132
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	123	70.0	132
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	122	71.0	131
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	121	69.0	133
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	117	72.0	129
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	0.00125 mg/kg	117	69.0	133
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	118	64.0	136
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	125	69.0	135
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	116	66.0	139
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	115	69.0	133
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4104679)								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	93.6	67.0	137
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	0.00312 mg/kg	109	71.6	129
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	100	69.8	131
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	100	68.7	130
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	97.9	65.1	134
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	99.6	63.0	144
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	108	61.0	139
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4107614)								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	111	67.0	137
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	0.00312 mg/kg	120	71.6	129
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	110	69.8	131
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	99.8	68.7	130
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	97.3	65.1	134
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	117	63.0	144
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	114	61.0	139
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4104679)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	0.00125 mg/kg	96.0	62.0	145
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	0.00125 mg/kg	93.6	64.0	140
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	0.00125 mg/kg	116	65.0	137

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Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4104679) - continued								
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	0.00125 mg/kg	106	69.2	143
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4107614)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	0.00125 mg/kg	121	62.0	145
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	0.00125 mg/kg	119	64.0	140
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	0.00125 mg/kg	120	65.0	137
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	0.00125 mg/kg	124	69.2	143

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EG020T: Total Metals by ICP-MS (QCLot: 4105888)								
EG020A-T: Arsenic	7440-38-2	0.001	mg/L	<0.001	0.1 mg/L	90.5	82.0	114
EG020A-T: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	0.1 mg/L	90.9	84.0	112
EG020A-T: Chromium	7440-47-3	0.001	mg/L	<0.001	0.1 mg/L	91.5	86.0	116
EG020A-T: Copper	7440-50-8	0.001	mg/L	<0.001	0.1 mg/L	88.8	83.0	118
EG020A-T: Lead	7439-92-1	0.001	mg/L	<0.001	0.1 mg/L	90.8	85.0	115
EG020A-T: Nickel	7440-02-0	0.001	mg/L	<0.001	0.1 mg/L	88.2	84.0	116
EG020A-T: Zinc	7440-66-6	0.005	mg/L	<0.005	0.1 mg/L	88.8	79.0	117
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4104356)								
EG035T: Mercury	7439-97-6	0.0001	mg/L	<0.0001	0.01 mg/L	96.0	77.0	111
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4098605)								
EP071: C10 - C14 Fraction	----	50	µg/L	<50	400 µg/L	73.9	55.8	112
EP071: C15 - C28 Fraction	----	100	µg/L	<100	600 µg/L	94.1	71.6	113
EP071: C29 - C36 Fraction	----	50	µg/L	<50	400 µg/L	104	56.0	121
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4100930)								
EP080: C6 - C9 Fraction	----	20	µg/L	<20	260 µg/L	112	75.0	127
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4102634)								
EP080: C6 - C9 Fraction	----	20	µg/L	<20	260 µg/L	94.0	75.0	127
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4098605)								
EP071: >C10 - C16 Fraction	----	100	µg/L	<100	500 µg/L	77.9	57.9	119
EP071: >C16 - C34 Fraction	----	100	µg/L	<100	700 µg/L	101	62.5	110
EP071: >C34 - C40 Fraction	----	100	µg/L	<100	300 µg/L	97.4	61.5	121
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4100930)								
EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	310 µg/L	113	75.0	127
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4102634)								
EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	310 µg/L	90.5	75.0	127
EP080: BTEXN (QCLot: 4100930)								
EP080: Benzene	71-43-2	1	µg/L	<1	10 µg/L	105	70.0	122

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Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report		
				Result	Spike Concentration	Spike Recovery (%)	Acceptable Limits (%)
						LCS	Low	High
EP080: BTEXN (QCLot: 4100930) - continued								
EP080: Toluene	108-88-3	2	µg/L	<2	10 µg/L	110	69.0	123
EP080: Ethylbenzene	100-41-4	2	µg/L	<2	10 µg/L	113	70.0	120
EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	10 µg/L	110	69.0	121
EP080: ortho-Xylene	95-47-6	2	µg/L	<2	10 µg/L	105	72.0	122
EP080: Naphthalene	91-20-3	5	µg/L	<5	10 µg/L	97.0	70.0	120
EP080: BTEXN (QCLot: 4102634)								
EP080: Benzene	71-43-2	1	µg/L	<1	10 µg/L	103	70.0	122
EP080: Toluene	108-88-3	2	µg/L	<2	10 µg/L	97.4	69.0	123
EP080: Ethylbenzene	100-41-4	2	µg/L	<2	10 µg/L	99.5	70.0	120
EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	10 µg/L	97.3	69.0	121
EP080: ortho-Xylene	95-47-6	2	µg/L	<2	10 µg/L	101	72.0	122
EP080: Naphthalene	91-20-3	5	µg/L	<5	10 µg/L	101	70.0	120
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4107171)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	0.25 µg/L	118	72.0	130
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	0.25 µg/L	107	71.0	127
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.25 µg/L	93.8	68.0	131
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	0.25 µg/L	111	69.0	134
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.25 µg/L	104	65.0	140
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	0.25 µg/L	116	53.0	142
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4107171)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	1.25 µg/L	85.0	73.0	129
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	0.25 µg/L	100	72.0	129
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.25 µg/L	119	72.0	129
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	0.25 µg/L	124	72.0	130
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	0.25 µg/L	129	71.0	133
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	0.25 µg/L	111	69.0	130
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	0.25 µg/L	119	71.0	129
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	0.25 µg/L	114	69.0	133
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	0.25 µg/L	117	72.0	134
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	0.25 µg/L	111	65.0	144
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	0.625 µg/L	102	71.0	132
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4107171)								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	0.25 µg/L	108	67.0	137
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	0.625 µg/L	105	68.0	141
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	0.625 µg/L	106	62.6	147

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Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4107171) - continued								
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	0.625 µg/L	97.4	66.0	145
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	0.625 µg/L	104	57.6	145
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	0.25 µg/L	118	65.0	136
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.25 µg/L	115	61.0	135
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4107171)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.25 µg/L	106	63.0	143
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	0.25 µg/L	99.4	64.0	140
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	0.25 µg/L	120	67.0	138
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	0.25 µg/L	109	71.4	144

Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

Sub-Matrix: **SOIL**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	SpikeRecovery(%): MS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4102399)							
ES2146990-001	BUR_BH109_0.2	EG005T: Arsenic	7440-38-2	50 mg/kg	95.1	70.0	130
		EG005T: Cadmium	7440-43-9	50 mg/kg	95.4	70.0	130
		EG005T: Chromium	7440-47-3	50 mg/kg	94.9	68.0	132
		EG005T: Copper	7440-50-8	250 mg/kg	98.8	70.0	130
		EG005T: Lead	7439-92-1	250 mg/kg	93.1	70.0	130
		EG005T: Nickel	7440-02-0	50 mg/kg	105	70.0	130
		EG005T: Zinc	7440-66-6	250 mg/kg	93.0	66.0	133
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4102401)							
ES2146990-021	BUR_BH114_5.0	EG005T: Arsenic	7440-38-2	50 mg/kg	93.3	70.0	130
		EG005T: Cadmium	7440-43-9	50 mg/kg	97.3	70.0	130
		EG005T: Chromium	7440-47-3	50 mg/kg	96.4	68.0	132
		EG005T: Copper	7440-50-8	250 mg/kg	97.7	70.0	130
		EG005T: Lead	7439-92-1	250 mg/kg	96.6	70.0	130
		EG005T: Nickel	7440-02-0	50 mg/kg	88.1	70.0	130
		EG005T: Zinc	7440-66-6	250 mg/kg	91.6	66.0	133
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4103630)							

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Sub-Matrix: **SOIL**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4103630) - continued							
ES2146169-001	Anonymous	EG005T: Arsenic	7440-38-2	50 mg/kg	93.2	70.0	130
		EG005T: Cadmium	7440-43-9	50 mg/kg	97.0	70.0	130
		EG005T: Chromium	7440-47-3	50 mg/kg	93.2	68.0	132
		EG005T: Copper	7440-50-8	250 mg/kg	99.0	70.0	130
		EG005T: Lead	7439-92-1	250 mg/kg	96.2	70.0	130
		EG005T: Nickel	7440-02-0	50 mg/kg	95.9	70.0	130
		EG005T: Zinc	7440-66-6	250 mg/kg	95.4	66.0	133
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4103631)							
ES2146990-040	BUR_BH101_0.1	EG005T: Arsenic	7440-38-2	50 mg/kg	94.9	70.0	130
		EG005T: Cadmium	7440-43-9	50 mg/kg	95.3	70.0	130
		EG005T: Chromium	7440-47-3	50 mg/kg	95.4	68.0	132
		EG005T: Copper	7440-50-8	250 mg/kg	102	70.0	130
		EG005T: Lead	7439-92-1	250 mg/kg	100.0	70.0	130
		EG005T: Nickel	7440-02-0	50 mg/kg	107	70.0	130
		EG005T: Zinc	7440-66-6	250 mg/kg	99.0	66.0	133
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4102400)							
ES2146990-001	BUR_BH109_0.2	EG035T: Mercury	7439-97-6	5 mg/kg	103	70.0	130
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4102402)							
ES2146990-021	BUR_BH114_5.0	EG035T: Mercury	7439-97-6	5 mg/kg	102	70.0	130
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4103629)							
ES2146169-001	Anonymous	EG035T: Mercury	7439-97-6	5 mg/kg	94.6	70.0	130
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4103632)							
ES2146990-040	BUR_BH101_0.1	EG035T: Mercury	7439-97-6	5 mg/kg	91.2	70.0	130
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 4098563)							
ES2146990-001	BUR_BH109_0.2	EP066: Total Polychlorinated biphenyls	----	1 mg/kg	99.2	70.0	130
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 4098659)							
ES2146990-027	BUR_BH115_0.2	EP066: Total Polychlorinated biphenyls	----	1 mg/kg	117	70.0	130
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 4098680)							
ES2146990-021	BUR_BH114_5.0	EP066: Total Polychlorinated biphenyls	----	1 mg/kg	95.8	70.0	130
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 4102081)							
ES2146918-001	Anonymous	EP066: Total Polychlorinated biphenyls	----	1 mg/kg	106	70.0	130
EP068A: Organochlorine Pesticides (OC) (QCLot: 4098562)							
ES2146990-001	BUR_BH109_0.2	EP068: gamma-BHC	58-89-9	0.5 mg/kg	99.4	70.0	130
		EP068: Heptachlor	76-44-8	0.5 mg/kg	89.5	70.0	130
		EP068: Aldrin	309-00-2	0.5 mg/kg	90.6	70.0	130

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Sub-Matrix: **SOIL**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP068A: Organochlorine Pesticides (OC) (QCLot: 4098562) - continued							
ES2146990-001	BUR_BH109_0.2	EP068: Dieldrin	60-57-1	0.5 mg/kg	94.1	70.0	130
		EP068: Endrin	72-20-8	2 mg/kg	100	70.0	130
		EP068: 4.4`-DDT	50-29-3	2 mg/kg	98.8	70.0	130
EP068A: Organochlorine Pesticides (OC) (QCLot: 4098658)							
ES2146990-027	BUR_BH115_0.2	EP068: gamma-BHC	58-89-9	0.5 mg/kg	84.0	70.0	130
		EP068: Heptachlor	76-44-8	0.5 mg/kg	91.1	70.0	130
		EP068: Aldrin	309-00-2	0.5 mg/kg	89.0	70.0	130
		EP068: Dieldrin	60-57-1	0.5 mg/kg	90.8	70.0	130
		EP068: Endrin	72-20-8	2 mg/kg	86.1	70.0	130
		EP068: 4.4`-DDT	50-29-3	2 mg/kg	104	70.0	130
EP068A: Organochlorine Pesticides (OC) (QCLot: 4098679)							
ES2146990-021	BUR_BH114_5.0	EP068: gamma-BHC	58-89-9	0.5 mg/kg	90.0	70.0	130
		EP068: Heptachlor	76-44-8	0.5 mg/kg	96.4	70.0	130
		EP068: Aldrin	309-00-2	0.5 mg/kg	94.7	70.0	130
		EP068: Dieldrin	60-57-1	0.5 mg/kg	91.9	70.0	130
		EP068: Endrin	72-20-8	2 mg/kg	104	70.0	130
		EP068: 4.4`-DDT	50-29-3	2 mg/kg	92.0	70.0	130
EP068A: Organochlorine Pesticides (OC) (QCLot: 4102080)							
ES2146918-001	Anonymous	EP068: gamma-BHC	58-89-9	0.5 mg/kg	105	70.0	130
		EP068: Heptachlor	76-44-8	0.5 mg/kg	99.9	70.0	130
		EP068: Aldrin	309-00-2	0.5 mg/kg	118	70.0	130
		EP068: Dieldrin	60-57-1	0.5 mg/kg	108	70.0	130
		EP068: Endrin	72-20-8	2 mg/kg	94.0	70.0	130
		EP068: 4.4`-DDT	50-29-3	2 mg/kg	90.8	70.0	130
EP068B: Organophosphorus Pesticides (OP) (QCLot: 4098562)							
ES2146990-001	BUR_BH109_0.2	EP068: Diazinon	333-41-5	0.5 mg/kg	97.7	70.0	130
		EP068: Chlorpyrifos-methyl	5598-13-0	0.5 mg/kg	98.6	70.0	130
		EP068: Pirimphos-ethyl	23505-41-1	0.5 mg/kg	83.2	70.0	130
		EP068: Bromophos-ethyl	4824-78-6	0.5 mg/kg	114	70.0	130
		EP068: Prothiofos	34643-46-4	0.5 mg/kg	86.0	70.0	130
EP068B: Organophosphorus Pesticides (OP) (QCLot: 4098658)							
ES2146990-027	BUR_BH115_0.2	EP068: Diazinon	333-41-5	0.5 mg/kg	108	70.0	130
		EP068: Chlorpyrifos-methyl	5598-13-0	0.5 mg/kg	86.8	70.0	130
		EP068: Pirimphos-ethyl	23505-41-1	0.5 mg/kg	86.9	70.0	130
		EP068: Bromophos-ethyl	4824-78-6	0.5 mg/kg	85.1	70.0	130
		EP068: Prothiofos	34643-46-4	0.5 mg/kg	100	70.0	130
EP068B: Organophosphorus Pesticides (OP) (QCLot: 4098679)							

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Sub-Matrix: **SOIL**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP068B: Organophosphorus Pesticides (OP) (QCLot: 4098679) - continued							
ES2146990-021	BUR_BH114_5.0	EP068: Diazinon	333-41-5	0.5 mg/kg	99.2	70.0	130
		EP068: Chlorpyrifos-methyl	5598-13-0	0.5 mg/kg	86.5	70.0	130
		EP068: Pirimphos-ethyl	23505-41-1	0.5 mg/kg	93.1	70.0	130
		EP068: Bromophos-ethyl	4824-78-6	0.5 mg/kg	92.3	70.0	130
		EP068: Prothiofos	34643-46-4	0.5 mg/kg	102	70.0	130
EP068B: Organophosphorus Pesticides (OP) (QCLot: 4102080)							
ES2146918-001	Anonymous	EP068: Diazinon	333-41-5	0.5 mg/kg	118	70.0	130
		EP068: Chlorpyrifos-methyl	5598-13-0	0.5 mg/kg	93.6	70.0	130
		EP068: Pirimphos-ethyl	23505-41-1	0.5 mg/kg	99.6	70.0	130
		EP068: Bromophos-ethyl	4824-78-6	0.5 mg/kg	93.1	70.0	130
		EP068: Prothiofos	34643-46-4	0.5 mg/kg	110	70.0	130
EP074E: Halogenated Aliphatic Compounds (QCLot: 4097168)							
ES2146990-001	BUR_BH109_0.2	EP074: 1.1-Dichloroethene	75-35-4	2.5 mg/kg	78.7	70.0	130
		EP074: Trichloroethene	79-01-6	2.5 mg/kg	70.6	70.0	130
EP074E: Halogenated Aliphatic Compounds (QCLot: 4097811)							
ES2146739-001	Anonymous	EP074: 1.1-Dichloroethene	75-35-4	2.5 mg/kg	84.2	70.0	130
		EP074: Trichloroethene	79-01-6	2.5 mg/kg	85.6	70.0	130
EP074F: Halogenated Aromatic Compounds (QCLot: 4097168)							
ES2146990-001	BUR_BH109_0.2	EP074: Chlorobenzene	108-90-7	2.5 mg/kg	77.2	70.0	130
EP074F: Halogenated Aromatic Compounds (QCLot: 4097811)							
ES2146739-001	Anonymous	EP074: Chlorobenzene	108-90-7	2.5 mg/kg	90.7	70.0	130
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 4098561)							
ES2146990-001	BUR_BH109_0.2	EP075(SIM): Acenaphthene	83-32-9	10 mg/kg	86.8	70.0	130
		EP075(SIM): Pyrene	129-00-0	10 mg/kg	97.2	70.0	130
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 4098657)							
ES2146990-027	BUR_BH115_0.2	EP075(SIM): Acenaphthene	83-32-9	10 mg/kg	95.1	70.0	130
		EP075(SIM): Pyrene	129-00-0	10 mg/kg	97.5	70.0	130
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 4098678)							
ES2146990-021	BUR_BH114_5.0	EP075(SIM): Acenaphthene	83-32-9	10 mg/kg	81.6	70.0	130
		EP075(SIM): Pyrene	129-00-0	10 mg/kg	87.6	70.0	130
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 4102078)							
ES2146918-001	Anonymous	EP075(SIM): Acenaphthene	83-32-9	10 mg/kg	98.6	70.0	130
		EP075(SIM): Pyrene	129-00-0	10 mg/kg	106	70.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4097167)							
ES2146990-001	BUR_BH109_0.2	EP080: C6 - C9 Fraction	---	32.5 mg/kg	109	70.0	130

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Sub-Matrix: **SOIL**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4097812)							
ES2146739-001	Anonymous	EP080: C6 - C9 Fraction	----	32.5 mg/kg	103	70.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4098280)							
ES2146990-002	BUR_BH109_0.5	EP080: C6 - C9 Fraction	----	32.5 mg/kg	73.6	70.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4098560)							
ES2146990-001	BUR_BH109_0.2	EP071: C10 - C14 Fraction	----	480 mg/kg	99.1	73.0	137
		EP071: C15 - C28 Fraction	----	3100 mg/kg	105	53.0	131
		EP071: C29 - C36 Fraction	----	2060 mg/kg	108	52.0	132
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4098656)							
ES2146990-027	BUR_BH115_0.2	EP071: C10 - C14 Fraction	----	480 mg/kg	77.8	73.0	137
		EP071: C15 - C28 Fraction	----	3100 mg/kg	90.5	53.0	131
		EP071: C29 - C36 Fraction	----	2060 mg/kg	99.8	52.0	132
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4098677)							
ES2146990-021	BUR_BH114_5.0	EP071: C10 - C14 Fraction	----	480 mg/kg	104	73.0	137
		EP071: C15 - C28 Fraction	----	3100 mg/kg	112	53.0	131
		EP071: C29 - C36 Fraction	----	2060 mg/kg	116	52.0	132
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4102079)							
ES2146918-001	Anonymous	EP071: C10 - C14 Fraction	----	480 mg/kg	102	73.0	137
		EP071: C15 - C28 Fraction	----	3100 mg/kg	104	53.0	131
		EP071: C29 - C36 Fraction	----	2060 mg/kg	108	52.0	132
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4102701)							
ES2146592-002	Anonymous	EP080: C6 - C9 Fraction	----	32.5 mg/kg	94.5	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4097167)							
ES2146990-001	BUR_BH109_0.2	EP080: C6 - C10 Fraction	C6_C10	37.5 mg/kg	107	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4097812)							
ES2146739-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	37.5 mg/kg	102	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4098280)							
ES2146990-002	BUR_BH109_0.5	EP080: C6 - C10 Fraction	C6_C10	37.5 mg/kg	71.3	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4098560)							
ES2146990-001	BUR_BH109_0.2	EP071: >C10 - C16 Fraction	----	860 mg/kg	103	73.0	137
		EP071: >C16 - C34 Fraction	----	4320 mg/kg	108	53.0	131
		EP071: >C34 - C40 Fraction	----	890 mg/kg	111	52.0	132
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4098656)							
ES2146990-027	BUR_BH115_0.2	EP071: >C10 - C16 Fraction	----	860 mg/kg	84.1	73.0	137
		EP071: >C16 - C34 Fraction	----	4320 mg/kg	93.0	53.0	131
		EP071: >C34 - C40 Fraction	----	890 mg/kg	107	52.0	132

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Sub-Matrix: **SOIL**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4098677)							
ES2146990-021	BUR_BH114_5.0	EP071: >C10 - C16 Fraction	----	860 mg/kg	106	73.0	137
		EP071: >C16 - C34 Fraction	----	4320 mg/kg	115	53.0	131
		EP071: >C34 - C40 Fraction	----	890 mg/kg	107	52.0	132
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4102079)							
ES2146918-001	Anonymous	EP071: >C10 - C16 Fraction	----	860 mg/kg	103	73.0	137
		EP071: >C16 - C34 Fraction	----	4320 mg/kg	107	53.0	131
		EP071: >C34 - C40 Fraction	----	890 mg/kg	109	52.0	132
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4102701)							
ES2146592-002	Anonymous	EP080: C6 - C10 Fraction	C6_C10	37.5 mg/kg	97.4	70.0	130
EP080: BTEXN (QCLot: 4097167)							
ES2146990-001	BUR_BH109_0.2	EP080: Benzene	71-43-2	2.5 mg/kg	101	70.0	130
		EP080: Toluene	108-88-3	2.5 mg/kg	104	70.0	130
		EP080: Ethylbenzene	100-41-4	2.5 mg/kg	108	70.0	130
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2.5 mg/kg	106	70.0	130
		EP080: ortho-Xylene	95-47-6	2.5 mg/kg	109	70.0	130
		EP080: Naphthalene	91-20-3	2.5 mg/kg	111	70.0	130
EP080: BTEXN (QCLot: 4097812)							
ES2146739-001	Anonymous	EP080: Benzene	71-43-2	2.5 mg/kg	96.0	70.0	130
		EP080: Toluene	108-88-3	2.5 mg/kg	93.5	70.0	130
		EP080: Ethylbenzene	100-41-4	2.5 mg/kg	93.6	70.0	130
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2.5 mg/kg	90.8	70.0	130
		EP080: ortho-Xylene	95-47-6	2.5 mg/kg	94.5	70.0	130
		EP080: Naphthalene	91-20-3	2.5 mg/kg	94.6	70.0	130
EP080: BTEXN (QCLot: 4098280)							
ES2146990-002	BUR_BH109_0.5	EP080: Benzene	71-43-2	2.5 mg/kg	78.1	70.0	130
		EP080: Toluene	108-88-3	2.5 mg/kg	81.7	70.0	130
		EP080: Ethylbenzene	100-41-4	2.5 mg/kg	80.6	70.0	130
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2.5 mg/kg	78.8	70.0	130
		EP080: ortho-Xylene	95-47-6	2.5 mg/kg	78.9	70.0	130
		EP080: Naphthalene	91-20-3	2.5 mg/kg	71.2	70.0	130
EP080: BTEXN (QCLot: 4102701)							
ES2146592-002	Anonymous	EP080: Benzene	71-43-2	2.5 mg/kg	81.4	70.0	130
		EP080: Toluene	108-88-3	2.5 mg/kg	82.0	70.0	130
		EP080: Ethylbenzene	100-41-4	2.5 mg/kg	89.7	70.0	130

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Sub-Matrix: **SOIL**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP080: BTEXN (QCLot: 4102701) - continued							
ES2146592-002	Anonymous	EP080: meta- & para-Xylene	108-38-3 106-42-3	2.5 mg/kg	92.0	70.0	130
		EP080: ortho-Xylene	95-47-6	2.5 mg/kg	94.3	70.0	130
		EP080: Naphthalene	91-20-3	2.5 mg/kg	84.0	70.0	130
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4104679)							
ES2146990-001	BUR_BH109_0.2	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.00125 mg/kg	96.8	72.0	128
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00125 mg/kg	84.8	73.0	123
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.00125 mg/kg	95.2	67.0	130
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00125 mg/kg	94.4	70.0	132
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.00125 mg/kg	105	68.0	136
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.00125 mg/kg	103	59.0	134
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4107614)							
ES2146990-046	BUR_BH112_5.0	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.00125 mg/kg	120	72.0	128
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00125 mg/kg	117	73.0	123
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.00125 mg/kg	110	67.0	130
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00125 mg/kg	113	70.0	132
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.00125 mg/kg	117	68.0	136
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.00125 mg/kg	122	59.0	134
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4104679)							
ES2146990-001	BUR_BH109_0.2	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.00625 mg/kg	91.9	71.0	135
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.00125 mg/kg	118	69.0	132
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.00125 mg/kg	112	70.0	132
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.00125 mg/kg	115	71.0	131
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.00125 mg/kg	125	69.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.00125 mg/kg	114	72.0	129
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.00125 mg/kg	113	69.0	133
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.00125 mg/kg	106	64.0	136
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.00125 mg/kg	117	69.0	135
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.00125 mg/kg	98.8	66.0	139
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.00312 mg/kg	99.2	69.0	133
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4107614)							
ES2146990-046	BUR_BH112_5.0	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.00625 mg/kg	109	71.0	135
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.00125 mg/kg	120	69.0	132
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.00125 mg/kg	124	70.0	132
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.00125 mg/kg	121	71.0	131
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.00125 mg/kg	120	69.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.00125 mg/kg	117	72.0	129
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.00125 mg/kg	120	69.0	133

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Sub-Matrix: **SOIL**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4107614) - continued							
ES2146990-046	BUR_BH112_5.0	EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.00125 mg/kg	118	64.0	136
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.00125 mg/kg	124	69.0	135
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.00125 mg/kg	118	66.0	139
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.00312 mg/kg	117	69.0	133
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4104679)							
ES2146990-001	BUR_BH109_0.2	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.00125 mg/kg	101	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.00312 mg/kg	112	71.6	129
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.00312 mg/kg	102	69.8	131
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.00312 mg/kg	106	68.7	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.00312 mg/kg	97.8	65.1	134
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.00125 mg/kg	98.4	63.0	144
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.00125 mg/kg	110	61.0	139
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4107614)							
ES2146990-046	BUR_BH112_5.0	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.00125 mg/kg	114	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.00312 mg/kg	117	71.6	129
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.00312 mg/kg	110	69.8	131
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.00312 mg/kg	111	68.7	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.00312 mg/kg	92.9	65.1	134
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.00125 mg/kg	114	63.0	144
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.00125 mg/kg	114	61.0	139
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4104679)							
ES2146990-001	BUR_BH109_0.2	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.00125 mg/kg	97.6	62.0	145
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.00125 mg/kg	99.2	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.00125 mg/kg	110	65.0	137
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.00125 mg/kg	118	69.2	143
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4107614)							
ES2146990-046	BUR_BH112_5.0	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.00125 mg/kg	118	62.0	145
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.00125 mg/kg	125	64.0	140

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Sub-Matrix: **SOIL**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	SpikeRecovery(%): MS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4107614) - continued							
ES2146990-046	BUR_BH112_5.0	EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.00125 mg/kg	115	65.0	137
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.00125 mg/kg	112	69.2	143

Sub-Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	SpikeRecovery(%): MS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EG020T: Total Metals by ICP-MS (QCLot: 4105888)							
ES2146990-024	R04_20211220	EG020A-T: Arsenic	7440-38-2	1 mg/L	85.8	70.0	130
		EG020A-T: Cadmium	7440-43-9	0.25 mg/L	90.4	70.0	130
		EG020A-T: Chromium	7440-47-3	1 mg/L	91.3	70.0	130
		EG020A-T: Copper	7440-50-8	1 mg/L	87.4	70.0	130
		EG020A-T: Lead	7439-92-1	1 mg/L	88.7	70.0	130
		EG020A-T: Nickel	7440-02-0	1 mg/L	85.9	70.0	130
		EG020A-T: Zinc	7440-66-6	1 mg/L	86.8	70.0	130
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4104356)							
ES2146870-001	Anonymous	EG035T: Mercury	7439-97-6	0.01 mg/L	97.0	70.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4100930)							
ES2146731-001	Anonymous	EP080: C6 - C9 Fraction	----	325 µg/L	123	70.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4102634)							
ES2146997-001	Anonymous	EP080: C6 - C9 Fraction	----	325 µg/L	92.8	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4100930)							
ES2146731-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	375 µg/L	122	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4102634)							
ES2146997-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	375 µg/L	86.0	70.0	130
EP080: BTEXN (QCLot: 4100930)							
ES2146731-001	Anonymous	EP080: Benzene	71-43-2	25 µg/L	101	70.0	130
		EP080: Toluene	108-88-3	25 µg/L	121	70.0	130
		EP080: Ethylbenzene	100-41-4	25 µg/L	114	70.0	130
		EP080: meta- & para-Xylene	108-38-3 106-42-3	25 µg/L	121	70.0	130
		EP080: ortho-Xylene	95-47-6	25 µg/L	111	70.0	130
		EP080: Naphthalene	91-20-3	25 µg/L	102	70.0	130
EP080: BTEXN (QCLot: 4102634)							
ES2146997-001	Anonymous	EP080: Benzene	71-43-2	25 µg/L	94.8	70.0	130
		EP080: Toluene	108-88-3	25 µg/L	96.5	70.0	130
		EP080: Ethylbenzene	100-41-4	25 µg/L	100	70.0	130

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Sub-Matrix: **WATER**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP080: BTEXN (QCLot: 4102634) - continued							
ES2146997-001	Anonymous	EP080: meta- & para-Xylene	108-38-3 106-42-3	25 µg/L	99.5	70.0	130
		EP080: ortho-Xylene	95-47-6	25 µg/L	104	70.0	130
		EP080: Naphthalene	91-20-3	25 µg/L	106	70.0	130
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4107171)							
ES2146990-025	R05_20211221	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.25 µg/L	124	72.0	130
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.25 µg/L	113	71.0	127
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.25 µg/L	96.4	68.0	131
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.25 µg/L	111	69.0	134
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.25 µg/L	104	65.0	140
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.25 µg/L	118	53.0	142
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4107171)							
ES2146990-025	R05_20211221	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	1.25 µg/L	84.4	73.0	129
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.25 µg/L	105	72.0	129
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.25 µg/L	123	72.0	129
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.25 µg/L	129	72.0	130
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.25 µg/L	123	71.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.25 µg/L	114	69.0	130
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.25 µg/L	124	71.0	129
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.25 µg/L	120	69.0	133
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.25 µg/L	116	72.0	134
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.25 µg/L	121	65.0	144
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.625 µg/L	114	71.0	132
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4107171)							
ES2146990-025	R05_20211221	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.25 µg/L	117	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.625 µg/L	101	68.0	141
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.625 µg/L	102	62.6	147
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.625 µg/L	105	66.0	145
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.625 µg/L	118	57.6	145
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.25 µg/L	112	65.0	136
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.25 µg/L	124	61.0	135
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4107171)							
ES2146990-025	R05_20211221	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.25 µg/L	103	63.0	143

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Sub-Matrix: **WATER**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4107171) - continued							
ES2146990-025	R05_20211221	EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.25 µg/L	104	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.25 µg/L	123	67.0	138
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.25 µg/L	116	71.4	144

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ALS Environmental

QA/QC Compliance Assessment to assist with Quality Review

Work Order	: **ES2146990**	Page	: 1 of 27
Amendment	: **3**		
Client	: **ENVIRONMENTAL RESOURCES MANAGEMENT (ERM)**	Laboratory	: Environmental Division Sydney
Contact	: MS JESSICA LAWRENCE	Telephone	: +61-2-8784 8555
Project	: 0577577 - Burwood	Date Samples Received	: 22-Dec-2021
Site	: ----	Issue Date	: 02-Feb-2022
Sampler	: TRISTAN RODRIGUES	No. of samples received	: 58
Order number	: ----	No. of samples analysed	: 51

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

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Summary of Outliers

Outliers : Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- **NO Method Blank value outliers occur.**
- **NO Duplicate outliers occur.**
- **NO Laboratory Control outliers occur.**
- **NO Matrix Spike outliers occur.**
- **Surrogate recovery outliers exist for all regular sample matrices - please see following pages for full details.**

Outliers : Analysis Holding Time Compliance

- **Analysis Holding Time Outliers exist - please see following pages for full details.**

Outliers : Frequency of Quality Control Samples

- **Quality Control Sample Frequency Outliers exist - please see following pages for full details.**

Regular Sample Surrogates

Sub-Matrix: **SOIL**

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Samples Submitted							
EP080S: TPH(V)/BTEX Surrogates	ES2146990-007	D05_20211220	**4-Bromofluorobenzene**	460-00-4	70.8 %	71.6-130 %	**Recovery less than lower data quality objective**

Outliers : Analysis Holding Time Compliance

Matrix: **WATER**

Method / Container / Client Sample ID(s)	Extraction / Preparation: Date extracted	Extraction / Preparation: Due for extraction	Extraction / Preparation: Days overdue	Analysis: Date analysed	Analysis: Due for analysis	Analysis: Days overdue
EP080/071: Total Petroleum Hydrocarbons						
Amber Glass Bottle - Unpreserved						
R04_20211220	28-Dec-2021	27-Dec-2021	1	---	---	---
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions						
Amber Glass Bottle - Unpreserved						
R04_20211220	28-Dec-2021	27-Dec-2021	1	---	---	---

Outliers : Frequency of Quality Control Samples

Matrix: **WATER**

Quality Control Sample Type / Method	Count: QC	Count: Regular	Rate (%): Actual	Rate (%): Expected	Quality Control Specification
Laboratory Duplicates (DUP)					
TRH - Semivolatile Fraction	0	14	0.00	10.00	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)					
TRH - Semivolatile Fraction	0	14	0.00	5.00	NEPM 2013 B3 & ALS QC Standard

Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for ***VOC in soils*** vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation: Date extracted	Extraction / Preparation: Due for extraction	Extraction / Preparation: Evaluation	Analysis: Date analysed	Analysis: Due for analysis	Analysis: Evaluation

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EA055: Moisture Content (Dried @ 105-110°C)							
Soil Glass Jar - Unpreserved (EA055)							
BUR_BH109_0.2, BUR_BH109_0.5, BUR_BH109_1.0, BUR_BH109_3.0, BUR_BH111_0.2, BUR_BH111_0.5, D05_20211220, BUR_BH111_2.0, BUR_BH111_5.0, BUR_BH110_0.2, BUR_BH110_0.5, BUR_BH110_1.0, BUR_BH110_5.0, BUR_BH113_0.2, BUR_BH113_1.0, BUR_BH113_2.0, D06__2021220, BUR_BH113_5.0, BUR_BH114_0.2, BUR_BH114_0.5, BUR_BH114_5.0, BUR_BH114_10.0, BUR_BH114_15.0	**20-Dec-2021**	----	----	----	**29-Dec-2021**	03-Jan-2022	✓
Soil Glass Jar - Unpreserved (EA055)							
BUR_BH115_0.2, BUR_BH115_0.5	**21-Dec-2021**	----	----	----	**29-Dec-2021**	04-Jan-2022	✓
Soil Glass Jar - Unpreserved (EA055)							
BUR_BH115_1.0, BUR_BH115_5.0, BUR_BH115_10.0, BUR_BH115_15.0, BUR_BH117_0.2, BUR_BH117_1.0, BUR_BH117_3.0, D08_20211221, BUR_BH125_0.2, BUR_BH125_0.5, BUR_BH125_5.0, BUR_BH101_0.1, BUR_BH112_0.2, BUR_BH112_0.5, BUR_BH112_5.0, BUR_BH116_0.2, D07_20211221, BUR_BH116_0.5, BUR_BH116_3.0	**21-Dec-2021**	----	----	----	**30-Dec-2021**	04-Jan-2022	✓
Soil Glass Jar - Unpreserved (EA055)							
BUR_BH101_2.0	**21-Dec-2021**	----	----	----	**31-Dec-2021**	04-Jan-2022	✓
EA200: AS 4964 - 2004 Identification of Asbestos in Soils							
Snap Lock Bag (EA200)							
BUR_BH109_0.2, BUR_BH113_0.2, BUR_BH114_0.2	**20-Dec-2021**	----	----	----	**24-Dec-2021**	18-Jun-2022	✓
Snap Lock Bag (EA200)							
BUR_BH115_0.2, BUR_BH117_0.2, BUR_BH125_0.2, BUR_BH101_0.1, BUR_BH112_0.2	**21-Dec-2021**	----	----	----	**24-Dec-2021**	19-Jun-2022	✓

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Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)		Sample Date	Extraction / Preparation			Analysis		
			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EG005(ED093)T: Total Metals by ICP-AES								
Soil Glass Jar - Unpreserved (EG005T)								
BUR_BH109_0.2,	BUR_BH109_0.5,	**20-Dec-2021**	**29-Dec-2021**	18-Jun-2022	✓	**31-Dec-2021**	18-Jun-2022	✓
BUR_BH109_1.0,	BUR_BH109_3.0,							
BUR_BH111_0.2,	BUR_BH111_0.5,							
D05_20211220,	BUR_BH111_2.0,							
BUR_BH111_5.0,	BUR_BH110_0.2,							
BUR_BH110_0.5,	BUR_BH110_1.0,							
BUR_BH110_5.0,	BUR_BH113_0.2,							
BUR_BH113_1.0,	BUR_BH113_2.0,							
D06__2021220,								
BUR_BH113_5.0,	BUR_BH114_0.2, BUR_BH114_0.5,							
BUR_BH114_5.0,	BUR_BH114_10.0,							
BUR_BH114_15.0								
Soil Glass Jar - Unpreserved (EG005T)								
BUR_BH115_0.2,	BUR_BH115_0.5	**21-Dec-2021**	**29-Dec-2021**	19-Jun-2022	✓	**31-Dec-2021**	19-Jun-2022	✓
Soil Glass Jar - Unpreserved (EG005T)								
BUR_BH115_1.0,	BUR_BH115_5.0,	**21-Dec-2021**	**30-Dec-2021**	19-Jun-2022	✓	**31-Dec-2021**	19-Jun-2022	✓
BUR_BH115_10.0,	BUR_BH115_15.0,							
BUR_BH117_0.2,	BUR_BH117_1.0,							
BUR_BH117_3.0,	D08_20211221,							
BUR_BH125_0.2,	BUR_BH125_0.5,							
BUR_BH125_5.0,	BUR_BH101_0.1,							
BUR_BH112_0.2,	BUR_BH112_0.5,							
BUR_BH112_5.0,	BUR_BH116_0.2,							
D07_20211221,	BUR_BH116_0.5,							
BUR_BH116_3.0								

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Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EG035T: Total Recoverable Mercury by FIMS							
Soil Glass Jar - Unpreserved (EG035T)							
BUR_BH109_0.2, BUR_BH109_0.5, BUR_BH109_1.0, BUR_BH109_3.0, BUR_BH111_0.2, BUR_BH111_0.5, D05_20211220, BUR_BH111_2.0, BUR_BH111_5.0, BUR_BH110_0.2, BUR_BH110_0.5, BUR_BH110_1.0, BUR_BH110_5.0, BUR_BH113_0.2, BUR_BH113_1.0, BUR_BH113_2.0, D06__2021220, BUR_BH113_5.0, BUR_BH114_0.2, BUR_BH114_0.5, BUR_BH114_5.0, BUR_BH114_10.0, BUR_BH114_15.0	**20-Dec-2021**	**29-Dec-2021**	17-Jan-2022	✓	**31-Dec-2021**	17-Jan-2022	✓
Soil Glass Jar - Unpreserved (EG035T)							
BUR_BH115_0.2, BUR_BH115_0.5	**21-Dec-2021**	**29-Dec-2021**	18-Jan-2022	✓	**31-Dec-2021**	18-Jan-2022	✓
Soil Glass Jar - Unpreserved (EG035T)							
BUR_BH115_1.0, BUR_BH115_5.0, BUR_BH115_10.0, BUR_BH115_15.0, BUR_BH117_0.2, BUR_BH117_1.0, BUR_BH117_3.0, D08_20211221, BUR_BH125_0.2, BUR_BH125_0.5, BUR_BH125_5.0, BUR_BH101_0.1, BUR_BH112_0.2, BUR_BH112_0.5, BUR_BH112_5.0, BUR_BH116_0.2, D07_20211221, BUR_BH116_0.5, BUR_BH116_3.0	**21-Dec-2021**	**30-Dec-2021**	18-Jan-2022	✓	**31-Dec-2021**	18-Jan-2022	✓

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Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP066: Polychlorinated Biphenyls (PCB)							
Soil Glass Jar - Unpreserved (EP066)							
BUR_BH109_0.2, BUR_BH109_0.5, BUR_BH109_1.0, BUR_BH109_3.0, BUR_BH111_0.2, BUR_BH111_0.5, D05_20211220, BUR_BH111_2.0, BUR_BH111_5.0, BUR_BH110_0.2, BUR_BH110_0.5, BUR_BH110_1.0, BUR_BH110_5.0, BUR_BH113_0.2, BUR_BH113_1.0, BUR_BH113_2.0, D06__2021220, BUR_BH113_5.0, BUR_BH114_0.2, BUR_BH114_0.5, BUR_BH114_5.0, BUR_BH114_10.0, BUR_BH114_15.0	**20-Dec-2021**	**30-Dec-2021**	03-Jan-2022	✓	**04-Jan-2022**	08-Feb-2022	✓
Soil Glass Jar - Unpreserved (EP066)							
BUR_BH115_0.2, BUR_BH115_0.5, BUR_BH115_1.0, BUR_BH115_5.0, BUR_BH115_10.0, BUR_BH115_15.0, BUR_BH117_0.2, BUR_BH117_1.0, BUR_BH117_3.0, D08_20211221, BUR_BH125_0.2, BUR_BH125_0.5, BUR_BH125_5.0, BUR_BH101_0.1, BUR_BH112_0.2, BUR_BH112_0.5, BUR_BH112_5.0, BUR_BH116_0.2, D07_20211221, BUR_BH116_0.5	**21-Dec-2021**	**30-Dec-2021**	04-Jan-2022	✓	**04-Jan-2022**	08-Feb-2022	✓
Soil Glass Jar - Unpreserved (EP066)							
BUR_BH116_3.0	**21-Dec-2021**	**30-Dec-2021**	04-Jan-2022	✓	**05-Jan-2022**	08-Feb-2022	✓

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Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP068A: Organochlorine Pesticides (OC)							
Soil Glass Jar - Unpreserved (EP068)							
BUR_BH109_0.2, BUR_BH109_0.5, BUR_BH109_1.0, BUR_BH109_3.0, BUR_BH111_0.2, BUR_BH111_0.5, D05_20211220, BUR_BH111_2.0, BUR_BH111_5.0, BUR_BH110_0.2, BUR_BH110_0.5, BUR_BH110_1.0, BUR_BH110_5.0, BUR_BH113_0.2, BUR_BH113_1.0, BUR_BH113_2.0, D06__2021220, BUR_BH113_5.0, BUR_BH114_0.2, BUR_BH114_0.5, BUR_BH114_5.0, BUR_BH114_10.0, BUR_BH114_15.0	**20-Dec-2021**	**30-Dec-2021**	03-Jan-2022	✓	**04-Jan-2022**	08-Feb-2022	✓
Soil Glass Jar - Unpreserved (EP068)							
BUR_BH115_0.2, BUR_BH115_0.5, BUR_BH115_1.0, BUR_BH115_5.0, BUR_BH115_10.0, BUR_BH115_15.0, BUR_BH117_0.2, BUR_BH117_1.0, BUR_BH117_3.0, D08_20211221, BUR_BH125_0.2, BUR_BH125_0.5, BUR_BH125_5.0, BUR_BH101_0.1, BUR_BH112_0.2, BUR_BH112_0.5, BUR_BH112_5.0, BUR_BH116_0.2, D07_20211221, BUR_BH116_0.5	**21-Dec-2021**	**30-Dec-2021**	04-Jan-2022	✓	**04-Jan-2022**	08-Feb-2022	✓
Soil Glass Jar - Unpreserved (EP068)							
BUR_BH116_3.0	**21-Dec-2021**	**30-Dec-2021**	04-Jan-2022	✓	**05-Jan-2022**	08-Feb-2022	✓

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Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP068B: Organophosphorus Pesticides (OP)							
Soil Glass Jar - Unpreserved (EP068)							
BUR_BH109_0.2, BUR_BH109_0.5, BUR_BH109_1.0, BUR_BH109_3.0, BUR_BH111_0.2, BUR_BH111_0.5, D05_20211220, BUR_BH111_2.0, BUR_BH111_5.0, BUR_BH110_0.2, BUR_BH110_0.5, BUR_BH110_1.0, BUR_BH110_5.0, BUR_BH113_0.2, BUR_BH113_1.0, BUR_BH113_2.0, D06__2021220, BUR_BH113_5.0, BUR_BH114_0.2, BUR_BH114_0.5, BUR_BH114_5.0, BUR_BH114_10.0, BUR_BH114_15.0	**20-Dec-2021**	**30-Dec-2021**	03-Jan-2022	✓	**04-Jan-2022**	08-Feb-2022	✓
Soil Glass Jar - Unpreserved (EP068)							
BUR_BH115_0.2, BUR_BH115_0.5, BUR_BH115_1.0, BUR_BH115_5.0, BUR_BH115_10.0, BUR_BH115_15.0, BUR_BH117_0.2, BUR_BH117_1.0, BUR_BH117_3.0, D08_20211221, BUR_BH125_0.2, BUR_BH125_0.5, BUR_BH125_5.0, BUR_BH101_0.1, BUR_BH112_0.2, BUR_BH112_0.5, BUR_BH112_5.0, BUR_BH116_0.2, D07_20211221, BUR_BH116_0.5	**21-Dec-2021**	**30-Dec-2021**	04-Jan-2022	✓	**04-Jan-2022**	08-Feb-2022	✓
Soil Glass Jar - Unpreserved (EP068)							
BUR_BH116_3.0	**21-Dec-2021**	**30-Dec-2021**	04-Jan-2022	✓	**05-Jan-2022**	08-Feb-2022	✓
EP074A: Monocyclic Aromatic Hydrocarbons							
Soil Glass Jar - Unpreserved (EP074)							
BUR_BH109_0.2, BUR_BH109_1.0, BUR_BH111_0.2, BUR_BH111_2.0, BUR_BH110_0.2, BUR_BH110_1.0, BUR_BH113_0.2, BUR_BH113_2.0, D06__2021220, BUR_BH114_0.5, BUR_BH114_10.0	**20-Dec-2021**	**24-Dec-2021**	27-Dec-2021	✓	**24-Dec-2021**	27-Dec-2021	✓
Soil Glass Jar - Unpreserved (EP074)							
BUR_BH115_0.2, BUR_BH115_1.0, BUR_BH115_10.0, BUR_BH117_0.2, D08_20211221, BUR_BH125_0.5, BUR_BH101_0.1, BUR_BH101_2.0, BUR_BH112_0.5, BUR_BH112_5.0, BUR_BH116_0.5	**21-Dec-2021**	**24-Dec-2021**	28-Dec-2021	✓	**24-Dec-2021**	28-Dec-2021	✓

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Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)		Sample Date	Extraction / Preparation			Analysis		
			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP074B: Oxygenated Compounds								
Soil Glass Jar - Unpreserved (EP074)								
BUR_BH109_0.2,	BUR_BH109_1.0,	**20-Dec-2021**	**24-Dec-2021**	27-Dec-2021	✓	**24-Dec-2021**	27-Dec-2021	✓
BUR_BH111_0.2,	BUR_BH111_2.0,							
BUR_BH110_0.2,	BUR_BH110_1.0,							
BUR_BH113_0.2,	BUR_BH113_2.0,							
D06__2021220,	BUR_BH114_0.5,							
BUR_BH114_10.0								
Soil Glass Jar - Unpreserved (EP074)								
BUR_BH115_0.2,	BUR_BH115_1.0,	**21-Dec-2021**	**24-Dec-2021**	28-Dec-2021	✓	**24-Dec-2021**	28-Dec-2021	✓
BUR_BH115_10.0,	BUR_BH117_0.2,							
D08_20211221,	BUR_BH125_0.5,							
BUR_BH101_0.1,	BUR_BH101_2.0,							
BUR_BH112_0.5,	BUR_BH112_5.0,							
BUR_BH116_0.5								
EP074C: Sulfonated Compounds								
Soil Glass Jar - Unpreserved (EP074)								
BUR_BH109_0.2,	BUR_BH109_1.0,	**20-Dec-2021**	**24-Dec-2021**	27-Dec-2021	✓	**24-Dec-2021**	27-Dec-2021	✓
BUR_BH111_0.2,	BUR_BH111_2.0,							
BUR_BH110_0.2,	BUR_BH110_1.0,							
BUR_BH113_0.2,	BUR_BH113_2.0,							
D06__2021220,	BUR_BH114_0.5,							
BUR_BH114_10.0								
Soil Glass Jar - Unpreserved (EP074)								
BUR_BH115_0.2,	BUR_BH115_1.0,	**21-Dec-2021**	**24-Dec-2021**	28-Dec-2021	✓	**24-Dec-2021**	28-Dec-2021	✓
BUR_BH115_10.0,	BUR_BH117_0.2,							
D08_20211221,	BUR_BH125_0.5,							
BUR_BH101_0.1,	BUR_BH101_2.0,							
BUR_BH112_0.5,	BUR_BH112_5.0,							
BUR_BH116_0.5								

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Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)		Sample Date	Extraction / Preparation			Analysis		
			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP074D: Fumigants								
Soil Glass Jar - Unpreserved (EP074)								
BUR_BH109_0.2,	BUR_BH109_1.0,	**20-Dec-2021**	**24-Dec-2021**	27-Dec-2021	✓	**24-Dec-2021**	27-Dec-2021	✓
BUR_BH111_0.2,	BUR_BH111_2.0,							
BUR_BH110_0.2,	BUR_BH110_1.0,							
BUR_BH113_0.2,	BUR_BH113_2.0,							
D06__2021220,	BUR_BH114_0.5,							
BUR_BH114_10.0								
Soil Glass Jar - Unpreserved (EP074)								
BUR_BH115_0.2,	BUR_BH115_1.0,	**21-Dec-2021**	**24-Dec-2021**	28-Dec-2021	✓	**24-Dec-2021**	28-Dec-2021	✓
BUR_BH115_10.0,	BUR_BH117_0.2,							
D08_20211221,	BUR_BH125_0.5,							
BUR_BH101_0.1,	BUR_BH101_2.0,							
BUR_BH112_0.5,	BUR_BH112_5.0,							
BUR_BH116_0.5								
EP074E: Halogenated Aliphatic Compounds								
Soil Glass Jar - Unpreserved (EP074)								
BUR_BH109_0.2,	BUR_BH109_1.0,	**20-Dec-2021**	**24-Dec-2021**	27-Dec-2021	✓	**24-Dec-2021**	27-Dec-2021	✓
BUR_BH111_0.2,	BUR_BH111_2.0,							
BUR_BH110_0.2,	BUR_BH110_1.0,							
BUR_BH113_0.2,	BUR_BH113_2.0,							
D06__2021220,	BUR_BH114_0.5,							
BUR_BH114_10.0								
Soil Glass Jar - Unpreserved (EP074)								
BUR_BH115_0.2,	BUR_BH115_1.0,	**21-Dec-2021**	**24-Dec-2021**	28-Dec-2021	✓	**24-Dec-2021**	28-Dec-2021	✓
BUR_BH115_10.0,	BUR_BH117_0.2,							
D08_20211221,	BUR_BH125_0.5,							
BUR_BH101_0.1,	BUR_BH101_2.0,							
BUR_BH112_0.5,	BUR_BH112_5.0,							
BUR_BH116_0.5								

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Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)		Sample Date	Extraction / Preparation			Analysis		
			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP074F: Halogenated Aromatic Compounds								
Soil Glass Jar - Unpreserved (EP074)								
BUR_BH109_0.2,	BUR_BH109_1.0,	**20-Dec-2021**	**24-Dec-2021**	27-Dec-2021	✓	**24-Dec-2021**	27-Dec-2021	✓
BUR_BH111_0.2,	BUR_BH111_2.0,							
BUR_BH110_0.2,	BUR_BH110_1.0,							
BUR_BH113_0.2,	BUR_BH113_2.0,							
D06__2021220,	BUR_BH114_0.5,							
BUR_BH114_10.0								
Soil Glass Jar - Unpreserved (EP074)								
BUR_BH115_0.2,	BUR_BH115_1.0,	**21-Dec-2021**	**24-Dec-2021**	28-Dec-2021	✓	**24-Dec-2021**	28-Dec-2021	✓
BUR_BH115_10.0,	BUR_BH117_0.2,							
D08_20211221,	BUR_BH125_0.5,							
BUR_BH101_0.1,	BUR_BH101_2.0,							
BUR_BH112_0.5,	BUR_BH112_5.0,							
BUR_BH116_0.5								
EP074G: Trihalomethanes								
Soil Glass Jar - Unpreserved (EP074)								
BUR_BH109_0.2,	BUR_BH109_1.0,	**20-Dec-2021**	**24-Dec-2021**	27-Dec-2021	✓	**24-Dec-2021**	27-Dec-2021	✓
BUR_BH111_0.2,	BUR_BH111_2.0,							
BUR_BH110_0.2,	BUR_BH110_1.0,							
BUR_BH113_0.2,	BUR_BH113_2.0,							
D06__2021220,	BUR_BH114_0.5,							
BUR_BH114_10.0								
Soil Glass Jar - Unpreserved (EP074)								
BUR_BH115_0.2,	BUR_BH115_1.0,	**21-Dec-2021**	**24-Dec-2021**	28-Dec-2021	✓	**24-Dec-2021**	28-Dec-2021	✓
BUR_BH115_10.0,	BUR_BH117_0.2,							
D08_20211221,	BUR_BH125_0.5,							
BUR_BH101_0.1,	BUR_BH101_2.0,							
BUR_BH112_0.5,	BUR_BH112_5.0,							
BUR_BH116_0.5								

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Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP074H: Naphthalene							
Soil Glass Jar - Unpreserved (EP074)							
BUR_BH109_0.2, BUR_BH109_1.0, BUR_BH111_0.2, BUR_BH111_2.0, BUR_BH110_0.2, BUR_BH110_1.0, BUR_BH113_0.2, BUR_BH113_2.0, D06__2021220, BUR_BH114_0.5, BUR_BH114_10.0	**20-Dec-2021**	**24-Dec-2021**	27-Dec-2021	✓	**24-Dec-2021**	27-Dec-2021	✓
Soil Glass Jar - Unpreserved (EP074)							
BUR_BH115_0.2, BUR_BH115_1.0, BUR_BH115_10.0, BUR_BH117_0.2, D08_20211221, BUR_BH125_0.5, BUR_BH101_0.1, BUR_BH101_2.0, BUR_BH112_0.5, BUR_BH112_5.0, BUR_BH116_0.5	**21-Dec-2021**	**24-Dec-2021**	28-Dec-2021	✓	**24-Dec-2021**	28-Dec-2021	✓
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons							
Soil Glass Jar - Unpreserved (EP075(SIM))							
BUR_BH109_0.2, BUR_BH109_0.5, BUR_BH109_1.0, BUR_BH109_3.0, BUR_BH111_0.2, BUR_BH111_0.5, D05_20211220, BUR_BH111_2.0, BUR_BH111_5.0, BUR_BH110_0.2, BUR_BH110_0.5, BUR_BH110_1.0, BUR_BH110_5.0, BUR_BH113_0.2, BUR_BH113_1.0, BUR_BH113_2.0, D06__2021220, BUR_BH113_5.0, BUR_BH114_0.2, BUR_BH114_0.5, BUR_BH114_5.0, BUR_BH114_10.0, BUR_BH114_15.0	**20-Dec-2021**	**30-Dec-2021**	03-Jan-2022	✓	**04-Jan-2022**	08-Feb-2022	✓
Soil Glass Jar - Unpreserved (EP075(SIM))							
BUR_BH115_0.2, BUR_BH115_0.5, BUR_BH115_1.0, BUR_BH115_5.0, BUR_BH115_10.0, BUR_BH115_15.0, BUR_BH117_0.2, BUR_BH117_1.0, BUR_BH117_3.0, D08_20211221, BUR_BH125_0.2, BUR_BH125_0.5, BUR_BH125_5.0, BUR_BH101_0.1, BUR_BH112_0.2, BUR_BH112_0.5, BUR_BH112_5.0, BUR_BH116_0.2, D07_20211221, BUR_BH116_0.5	**21-Dec-2021**	**30-Dec-2021**	04-Jan-2022	✓	**04-Jan-2022**	08-Feb-2022	✓
Soil Glass Jar - Unpreserved (EP075(SIM))							
BUR_BH116_3.0	**21-Dec-2021**	**30-Dec-2021**	04-Jan-2022	✓	**31-Dec-2021**	08-Feb-2022	✓

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Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP080/071: Total Petroleum Hydrocarbons							
Soil Glass Jar - Unpreserved (EP080)							
BUR_BH109_0.2, BUR_BH109_1.0, BUR_BH111_0.2, BUR_BH111_2.0, BUR_BH110_0.2, BUR_BH110_1.0, BUR_BH113_0.2, BUR_BH113_2.0, D06__2021220, BUR_BH114_0.5, BUR_BH114_10.0	**20-Dec-2021**	**24-Dec-2021**	03-Jan-2022	✓	**24-Dec-2021**	03-Jan-2022	✓
Soil Glass Jar - Unpreserved (EP080)							
BUR_BH109_0.5, BUR_BH109_3.0, BUR_BH111_0.5, D05_20211220, BUR_BH111_5.0, BUR_BH110_0.5, BUR_BH110_5.0, BUR_BH113_1.0, BUR_BH113_5.0, BUR_BH114_0.2, BUR_BH114_5.0, BUR_BH114_15.0	**20-Dec-2021**	**24-Dec-2021**	03-Jan-2022	✓	**31-Dec-2021**	03-Jan-2022	✓
Soil Glass Jar - Unpreserved (EP071)							
BUR_BH109_0.2, BUR_BH109_0.5, BUR_BH109_1.0, BUR_BH109_3.0, BUR_BH111_0.2, BUR_BH111_0.5, D05_20211220, BUR_BH111_2.0, BUR_BH111_5.0, BUR_BH110_0.2, BUR_BH110_0.5, BUR_BH110_1.0, BUR_BH110_5.0, BUR_BH113_0.2, BUR_BH113_1.0, BUR_BH113_2.0, D06__2021220, BUR_BH113_5.0, BUR_BH114_0.2, BUR_BH114_0.5, BUR_BH114_5.0, BUR_BH114_10.0, BUR_BH114_15.0	**20-Dec-2021**	**30-Dec-2021**	03-Jan-2022	✓	**04-Jan-2022**	08-Feb-2022	✓
Soil Glass Jar - Unpreserved (EP080)							
TB	**20-Dec-2021**	**30-Dec-2021**	03-Jan-2022	✓	**31-Dec-2021**	03-Jan-2022	✓
Soil Glass Jar - Unpreserved (EP080)							
BUR_BH115_0.2, BUR_BH115_1.0, BUR_BH115_10.0, BUR_BH117_0.2, D08_20211221, BUR_BH125_0.5, BUR_BH101_0.1, BUR_BH112_0.5, BUR_BH112_5.0, BUR_BH116_0.5	**21-Dec-2021**	**24-Dec-2021**	04-Jan-2022	✓	**24-Dec-2021**	04-Jan-2022	✓
Soil Glass Jar - Unpreserved (EP080)							
BUR_BH115_0.5, BUR_BH115_5.0, BUR_BH115_15.0, BUR_BH117_1.0, BUR_BH117_3.0, BUR_BH125_0.2, BUR_BH125_5.0	**21-Dec-2021**	**24-Dec-2021**	04-Jan-2022	✓	**31-Dec-2021**	04-Jan-2022	✓
Soil Glass Jar - Unpreserved (EP071)							

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Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)		Sample Date	Extraction / Preparation			Analysis		
			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP080/071: Total Petroleum Hydrocarbons - Continued								
BUR_BH115_0.2, BUR_BH115_1.0, BUR_BH115_10.0, BUR_BH117_0.2, BUR_BH117_3.0, BUR_BH125_0.2, BUR_BH125_5.0, BUR_BH112_0.2, BUR_BH112_5.0, D07_20211221, BUR_BH116_3.0	BUR_BH115_0.5, BUR_BH115_5.0, BUR_BH115_15.0, BUR_BH117_1.0, D08_20211221, BUR_BH125_0.5, BUR_BH101_0.1, BUR_BH112_0.5, BUR_BH116_0.2, BUR_BH116_0.5,	**21-Dec-2021**	**30-Dec-2021**	04-Jan-2022	✓	**04-Jan-2022**	08-Feb-2022	✓
Soil Glass Jar - Unpreserved (EP080)								
BUR_BH112_0.2, D07_20211221,	BUR_BH116_0.2, BUR_BH116_3.0	**21-Dec-2021**	**30-Dec-2021**	04-Jan-2022	✓	**31-Dec-2021**	04-Jan-2022	✓

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Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions							
Soil Glass Jar - Unpreserved (EP080)							
BUR_BH109_0.2, BUR_BH109_1.0, BUR_BH111_0.2, BUR_BH111_2.0, BUR_BH110_0.2, BUR_BH110_1.0, BUR_BH113_0.2, BUR_BH113_2.0, D06__2021220, BUR_BH114_0.5, BUR_BH114_10.0	**20-Dec-2021**	**24-Dec-2021**	03-Jan-2022	✓	**24-Dec-2021**	03-Jan-2022	✓
Soil Glass Jar - Unpreserved (EP080)							
BUR_BH109_0.5, BUR_BH109_3.0, BUR_BH111_0.5, D05_20211220, BUR_BH111_5.0, BUR_BH110_0.5, BUR_BH110_5.0, BUR_BH113_1.0, BUR_BH113_5.0, BUR_BH114_0.2, BUR_BH114_5.0, BUR_BH114_15.0	**20-Dec-2021**	**24-Dec-2021**	03-Jan-2022	✓	**31-Dec-2021**	03-Jan-2022	✓
Soil Glass Jar - Unpreserved (EP071)							
BUR_BH109_0.2, BUR_BH109_0.5, BUR_BH109_1.0, BUR_BH109_3.0, BUR_BH111_0.2, BUR_BH111_0.5, D05_20211220, BUR_BH111_2.0, BUR_BH111_5.0, BUR_BH110_0.2, BUR_BH110_0.5, BUR_BH110_1.0, BUR_BH110_5.0, BUR_BH113_0.2, BUR_BH113_1.0, BUR_BH113_2.0, D06__2021220, BUR_BH113_5.0, BUR_BH114_0.2, BUR_BH114_0.5, BUR_BH114_5.0, BUR_BH114_10.0, BUR_BH114_15.0	**20-Dec-2021**	**30-Dec-2021**	03-Jan-2022	✓	**04-Jan-2022**	08-Feb-2022	✓
Soil Glass Jar - Unpreserved (EP080)							
TB	**20-Dec-2021**	**30-Dec-2021**	03-Jan-2022	✓	**31-Dec-2021**	03-Jan-2022	✓
Soil Glass Jar - Unpreserved (EP080)							
BUR_BH115_0.2, BUR_BH115_1.0, BUR_BH115_10.0, BUR_BH117_0.2, D08_20211221, BUR_BH125_0.5, BUR_BH101_0.1, BUR_BH112_0.5, BUR_BH112_5.0, BUR_BH116_0.5	**21-Dec-2021**	**24-Dec-2021**	04-Jan-2022	✓	**24-Dec-2021**	04-Jan-2022	✓
Soil Glass Jar - Unpreserved (EP080)							
BUR_BH115_0.5, BUR_BH115_5.0, BUR_BH115_15.0, BUR_BH117_1.0, BUR_BH117_3.0, BUR_BH125_0.2, BUR_BH125_5.0	**21-Dec-2021**	**24-Dec-2021**	04-Jan-2022	✓	**31-Dec-2021**	04-Jan-2022	✓
Soil Glass Jar - Unpreserved (EP071)							

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Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued							
BUR_BH115_0.2, BUR_BH115_0.5, BUR_BH115_1.0, BUR_BH115_5.0, BUR_BH115_10.0, BUR_BH115_15.0, BUR_BH117_0.2, BUR_BH117_1.0, BUR_BH117_3.0, D08_20211221, BUR_BH125_0.2, BUR_BH125_0.5, BUR_BH125_5.0, BUR_BH101_0.1, BUR_BH112_0.2, BUR_BH112_0.5, BUR_BH112_5.0, BUR_BH116_0.2, D07_20211221, BUR_BH116_0.5, BUR_BH116_3.0	**21-Dec-2021**	**30-Dec-2021**	04-Jan-2022	✓	**04-Jan-2022**	08-Feb-2022	✓
Soil Glass Jar - Unpreserved (EP080)							
BUR_BH112_0.2, BUR_BH116_0.2, D07_20211221, BUR_BH116_3.0	**21-Dec-2021**	**30-Dec-2021**	04-Jan-2022	✓	**31-Dec-2021**	04-Jan-2022	✓

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Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)		Sample Date	Extraction / Preparation			Analysis		
			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP080: BTEXN								
Soil Glass Jar - Unpreserved (EP080)								
BUR_BH109_0.2, BUR_BH111_0.2, BUR_BH110_0.2, BUR_BH113_0.2, D06__2021220, BUR_BH114_10.0	BUR_BH109_1.0, BUR_BH111_2.0, BUR_BH110_1.0, BUR_BH113_2.0, BUR_BH114_0.5,	**20-Dec-2021**	**24-Dec-2021**	03-Jan-2022	✓	**24-Dec-2021**	03-Jan-2022	✓
Soil Glass Jar - Unpreserved (EP080)								
BUR_BH109_0.5, BUR_BH111_0.5, BUR_BH111_5.0, BUR_BH110_5.0, BUR_BH113_5.0, BUR_BH114_5.0, TS 22	BUR_BH109_3.0, D05_20211220, BUR_BH110_0.5, BUR_BH113_1.0, BUR_BH114_0.2, BUR_BH114_15.0,	**20-Dec-2021**	**24-Dec-2021**	03-Jan-2022	✓	**31-Dec-2021**	03-Jan-2022	✓
Soil Glass Jar - Unpreserved (EP080)								
TB,	Trip Spike Control 22	**20-Dec-2021**	**30-Dec-2021**	03-Jan-2022	✓	**31-Dec-2021**	03-Jan-2022	✓
Soil Glass Jar - Unpreserved (EP080)								
BUR_BH115_0.2, BUR_BH115_10.0, D08_20211221, BUR_BH101_0.1, BUR_BH112_5.0,	BUR_BH115_1.0, BUR_BH117_0.2, BUR_BH125_0.5, BUR_BH112_0.5, BUR_BH116_0.5	**21-Dec-2021**	**24-Dec-2021**	04-Jan-2022	✓	**24-Dec-2021**	04-Jan-2022	✓
Soil Glass Jar - Unpreserved (EP080)								
BUR_BH115_0.5, BUR_BH115_15.0, BUR_BH117_3.0, BUR_BH125_5.0	BUR_BH115_5.0, BUR_BH117_1.0, BUR_BH125_0.2,	**21-Dec-2021**	**24-Dec-2021**	04-Jan-2022	✓	**31-Dec-2021**	04-Jan-2022	✓
Soil Glass Jar - Unpreserved (EP080)								
BUR_BH112_0.2, D07_20211221,	BUR_BH116_0.2, BUR_BH116_3.0	**21-Dec-2021**	**30-Dec-2021**	04-Jan-2022	✓	**31-Dec-2021**	04-Jan-2022	✓

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Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)		Sample Date	Extraction / Preparation			Analysis		
			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP231A: Perfluoroalkyl Sulfonic Acids								
HDPE Soil Jar (EP231X)								
BUR_BH109_0.2, BUR_BH111_0.5, BUR_BH111_5.0, BUR_BH110_5.0, BUR_BH113_5.0, BUR_BH114_15.0	BUR_BH109_3.0, D05_20211220, BUR_BH110_0.2, BUR_BH113_0.2, BUR_BH114_0.2,	20-Dec-2021	31-Dec-2021	18-Jun-2022	✓	05-Jan-2022	09-Feb-2022	✓
HDPE Soil Jar (EP231X)								
BUR_BH112_5.0, D07_20211221,	BUR_BH116_0.2, BUR_BH116_3.0	21-Dec-2021	05-Jan-2022	19-Jun-2022	✓	06-Jan-2022	14-Feb-2022	✓
HDPE Soil Jar (EP231X)								
BUR_BH115_0.2, BUR_BH117_0.2, D08_20211221, BUR_BH125_5.0, BUR_BH112_0.2	BUR_BH115_15.0, BUR_BH117_3.0, BUR_BH125_0.2, BUR_BH101_0.1,	21-Dec-2021	31-Dec-2021	19-Jun-2022	✓	05-Jan-2022	09-Feb-2022	✓
EP231B: Perfluoroalkyl Carboxylic Acids								
HDPE Soil Jar (EP231X)								
BUR_BH109_0.2, BUR_BH111_0.5, BUR_BH111_5.0, BUR_BH110_5.0, BUR_BH113_5.0, BUR_BH114_15.0	BUR_BH109_3.0, D05_20211220, BUR_BH110_0.2, BUR_BH113_0.2, BUR_BH114_0.2,	20-Dec-2021	31-Dec-2021	18-Jun-2022	✓	05-Jan-2022	09-Feb-2022	✓
HDPE Soil Jar (EP231X)								
BUR_BH112_5.0, D07_20211221,	BUR_BH116_0.2, BUR_BH116_3.0	21-Dec-2021	05-Jan-2022	19-Jun-2022	✓	06-Jan-2022	14-Feb-2022	✓
HDPE Soil Jar (EP231X)								
BUR_BH115_0.2, BUR_BH117_0.2, D08_20211221, BUR_BH125_5.0, BUR_BH112_0.2	BUR_BH115_15.0, BUR_BH117_3.0, BUR_BH125_0.2, BUR_BH101_0.1,	21-Dec-2021	31-Dec-2021	19-Jun-2022	✓	05-Jan-2022	09-Feb-2022	✓

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Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)		Sample Date	Extraction / Preparation			Analysis		
			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP231C: Perfluoroalkyl Sulfonamides								
HDPE Soil Jar (EP231X)								
BUR_BH109_0.2, BUR_BH111_0.5, BUR_BH111_5.0, BUR_BH110_5.0, BUR_BH113_5.0, BUR_BH114_15.0	BUR_BH109_3.0, D05_20211220, BUR_BH110_0.2, BUR_BH113_0.2, BUR_BH114_0.2,	**20-Dec-2021**	**31-Dec-2021**	18-Jun-2022	✓	**05-Jan-2022**	09-Feb-2022	✓
HDPE Soil Jar (EP231X)								
BUR_BH112_5.0, D07_20211221,	BUR_BH116_0.2, BUR_BH116_3.0	**21-Dec-2021**	**05-Jan-2022**	19-Jun-2022	✓	**06-Jan-2022**	14-Feb-2022	✓
HDPE Soil Jar (EP231X)								
BUR_BH115_0.2, BUR_BH117_0.2, D08_20211221, BUR_BH125_5.0, BUR_BH112_0.2	BUR_BH115_15.0, BUR_BH117_3.0, BUR_BH125_0.2, BUR_BH101_0.1,	**21-Dec-2021**	**31-Dec-2021**	19-Jun-2022	✓	**05-Jan-2022**	09-Feb-2022	✓
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
HDPE Soil Jar (EP231X)								
BUR_BH109_0.2, BUR_BH111_0.5, BUR_BH111_5.0, BUR_BH110_5.0, BUR_BH113_5.0, BUR_BH114_15.0	BUR_BH109_3.0, D05_20211220, BUR_BH110_0.2, BUR_BH113_0.2, BUR_BH114_0.2,	**20-Dec-2021**	**31-Dec-2021**	18-Jun-2022	✓	**05-Jan-2022**	09-Feb-2022	✓
HDPE Soil Jar (EP231X)								
BUR_BH112_5.0, D07_20211221,	BUR_BH116_0.2, BUR_BH116_3.0	**21-Dec-2021**	**05-Jan-2022**	19-Jun-2022	✓	**06-Jan-2022**	14-Feb-2022	✓
HDPE Soil Jar (EP231X)								
BUR_BH115_0.2, BUR_BH117_0.2, D08_20211221, BUR_BH125_5.0, BUR_BH112_0.2	BUR_BH115_15.0, BUR_BH117_3.0, BUR_BH125_0.2, BUR_BH101_0.1,	**21-Dec-2021**	**31-Dec-2021**	19-Jun-2022	✓	**05-Jan-2022**	09-Feb-2022	✓

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Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP231P: PFAS Sums							
HDPE Soil Jar (EP231X)							
BUR_BH109_0.2, BUR_BH109_3.0, BUR_BH111_0.5, D05_20211220, BUR_BH111_5.0, BUR_BH110_0.2, BUR_BH110_5.0, BUR_BH113_0.2, BUR_BH113_5.0, BUR_BH114_0.2, BUR_BH114_15.0	20-Dec-2021	31-Dec-2021	18-Jun-2022	✓	05-Jan-2022	09-Feb-2022	✓
HDPE Soil Jar (EP231X)							
BUR_BH112_5.0, BUR_BH116_0.2, D07_20211221, BUR_BH116_3.0	21-Dec-2021	05-Jan-2022	19-Jun-2022	✓	06-Jan-2022	14-Feb-2022	✓
HDPE Soil Jar (EP231X)							
BUR_BH115_0.2, BUR_BH115_15.0, BUR_BH117_0.2, BUR_BH117_3.0, D08_20211221, BUR_BH125_0.2, BUR_BH125_5.0, BUR_BH101_0.1, BUR_BH112_0.2	21-Dec-2021	31-Dec-2021	19-Jun-2022	✓	05-Jan-2022	09-Feb-2022	✓

Matrix: **SOLID**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EA200: AS 4964 - 2004 Identification of Asbestos in bulk samples							
Snap Lock Bag (EA200)							
BUR_BH116_0.2 ACM	21-Dec-2021	----	----	----	24-Dec-2021	19-Jun-2022	✓

Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EG020T: Total Metals by ICP-MS							
Clear Plastic Bottle - Nitric Acid; Unfiltered (EG020A-T)							
R04_20211220	20-Dec-2021	04-Jan-2022	18-Jun-2022	✓	04-Jan-2022	18-Jun-2022	✓
Clear Plastic Bottle - Nitric Acid; Unfiltered (EG020A-T)							
R05_20211221	21-Dec-2021	04-Jan-2022	19-Jun-2022	✓	04-Jan-2022	19-Jun-2022	✓
EG035T: Total Recoverable Mercury by FIMS							
Clear Plastic Bottle - Nitric Acid; Unfiltered (EG035T)							
R04_20211220	20-Dec-2021	----	----	----	04-Jan-2022	17-Jan-2022	✓
Clear Plastic Bottle - Nitric Acid; Unfiltered (EG035T)							
R05_20211221	21-Dec-2021	----	----	----	04-Jan-2022	18-Jan-2022	✓

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Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP080/071: Total Petroleum Hydrocarbons							
Amber Glass Bottle - Unpreserved (EP071) R04_20211220	20-Dec-2021	28-Dec-2021	27-Dec-2021	×	31-Dec-2021	06-Feb-2022	✓
Amber Glass Bottle - Unpreserved (EP071) R05_20211221	21-Dec-2021	28-Dec-2021	28-Dec-2021	✓	31-Dec-2021	06-Feb-2022	✓
Amber VOC Vial - Sulfuric Acid (EP080) R04_20211220	20-Dec-2021	31-Dec-2021	03-Jan-2022	✓	31-Dec-2021	03-Jan-2022	✓
Amber VOC Vial - Sulfuric Acid (EP080) R05_20211221	21-Dec-2021	04-Jan-2022	04-Jan-2022	✓	04-Jan-2022	04-Jan-2022	✓
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions							
Amber Glass Bottle - Unpreserved (EP071) R04_20211220	20-Dec-2021	28-Dec-2021	27-Dec-2021	×	31-Dec-2021	06-Feb-2022	✓
Amber Glass Bottle - Unpreserved (EP071) R05_20211221	21-Dec-2021	28-Dec-2021	28-Dec-2021	✓	31-Dec-2021	06-Feb-2022	✓
Amber VOC Vial - Sulfuric Acid (EP080) R04_20211220	20-Dec-2021	31-Dec-2021	03-Jan-2022	✓	31-Dec-2021	03-Jan-2022	✓
Amber VOC Vial - Sulfuric Acid (EP080) R05_20211221	21-Dec-2021	04-Jan-2022	04-Jan-2022	✓	04-Jan-2022	04-Jan-2022	✓
EP080: BTEXN							
Amber VOC Vial - Sulfuric Acid (EP080) R04_20211220	20-Dec-2021	31-Dec-2021	03-Jan-2022	✓	31-Dec-2021	03-Jan-2022	✓
Amber VOC Vial - Sulfuric Acid (EP080) R05_20211221	21-Dec-2021	04-Jan-2022	04-Jan-2022	✓	04-Jan-2022	04-Jan-2022	✓
EP231A: Perfluoroalkyl Sulfonic Acids							
HDPE (no PTFE) (EP231X) R04_20211220	20-Dec-2021	06-Jan-2022	18-Jun-2022	✓	06-Jan-2022	18-Jun-2022	✓
HDPE (no PTFE) (EP231X) R05_20211221	21-Dec-2021	06-Jan-2022	19-Jun-2022	✓	06-Jan-2022	19-Jun-2022	✓
EP231B: Perfluoroalkyl Carboxylic Acids							
HDPE (no PTFE) (EP231X) R04_20211220	20-Dec-2021	06-Jan-2022	18-Jun-2022	✓	06-Jan-2022	18-Jun-2022	✓
HDPE (no PTFE) (EP231X) R05_20211221	21-Dec-2021	06-Jan-2022	19-Jun-2022	✓	06-Jan-2022	19-Jun-2022	✓
EP231C: Perfluoroalkyl Sulfonamides							
HDPE (no PTFE) (EP231X) R04_20211220	20-Dec-2021	06-Jan-2022	18-Jun-2022	✓	06-Jan-2022	18-Jun-2022	✓
HDPE (no PTFE) (EP231X) R05_20211221	21-Dec-2021	06-Jan-2022	19-Jun-2022	✓	06-Jan-2022	19-Jun-2022	✓
EP231D: (n:2) Fluorotelomer Sulfonic Acids							
HDPE (no PTFE) (EP231X) R04_20211220	20-Dec-2021	06-Jan-2022	18-Jun-2022	✓	06-Jan-2022	18-Jun-2022	✓
HDPE (no PTFE) (EP231X) R05_20211221	21-Dec-2021	06-Jan-2022	19-Jun-2022	✓	06-Jan-2022	19-Jun-2022	✓

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Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP231P: PFAS Sums							
HDPE (no PTFE) (EP231X) R04_20211220	**20-Dec-2021**	**06-Jan-2022**	18-Jun-2022	✓	**06-Jan-2022**	18-Jun-2022	✓
HDPE (no PTFE) (EP231X) R05_20211221	**21-Dec-2021**	**06-Jan-2022**	19-Jun-2022	✓	**06-Jan-2022**	19-Jun-2022	✓

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Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(were) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

Matrix: **SOIL**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Laboratory Duplicates (DUP)							
Moisture Content	EA055	7	60	**11.67**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (SIM)	EP075(SIM)	8	80	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	3	24	**12.50**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	7	70	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	7	70	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	7	61	**11.48**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	7	63	**11.11**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	8	80	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	7	64	**10.94**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds	EP074	3	28	**10.71**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
PAH/Phenols (SIM)	EP075(SIM)	4	80	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	2	24	**8.33**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	4	70	**5.71**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	4	70	**5.71**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	4	61	**6.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	4	63	**6.35**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	4	80	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	4	64	**6.25**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds	EP074	2	28	**7.14**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
PAH/Phenols (SIM)	EP075(SIM)	4	80	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	2	24	**8.33**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	4	70	**5.71**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	4	70	**5.71**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	4	61	**6.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	4	63	**6.35**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	4	80	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	4	64	**6.25**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds	EP074	2	28	**7.14**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
PAH/Phenols (SIM)	EP075(SIM)	4	80	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	2	24	**8.33**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	4	70	**5.71**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	4	70	**5.71**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	4	61	**6.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard

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Matrix: **SOIL**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Matrix Spikes (MS) - Continued							
Total Metals by ICP-AES	EG005T	4	63	**6.35**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	4	80	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	4	64	**6.25**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds	EP074	2	28	**7.14**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard

Matrix: **WATER**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Laboratory Duplicates (DUP)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	2	**50.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-MS - Suite A	EG020A-T	2	14	**14.29**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	0	14	**0.00**	**10.00**	×	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	3	30	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	2	**50.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-MS - Suite A	EG020A-T	1	14	**7.14**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	14	**7.14**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	2	30	**6.67**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	2	**50.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-MS - Suite A	EG020A-T	1	14	**7.14**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	14	**7.14**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	2	30	**6.67**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	2	**50.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-MS - Suite A	EG020A-T	1	14	**7.14**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	0	14	**0.00**	**5.00**	×	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	2	30	**6.67**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard

Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
Moisture Content	EA055	SOIL	In house: A gravimetric procedure based on weight loss over a 12 hour drying period at 105-110 degrees C. This method is compliant with NEPM Schedule B(3).
Asbestos Identification in Soils	EA200	SOIL	AS 4964 Method for the qualitative identification of asbestos in bulk samples Analysis by Polarised Light Microscopy including dispersion staining
Total Metals by ICP-AES	EG005T	SOIL	In house: Referenced to APHA 3120; USEPA SW 846 - 6010. Metals are determined following an appropriate acid digestion of the soil. The ICPAES technique ionises samples in a plasma, emitting a characteristic spectrum based on metals present. Intensities at selected wavelengths are compared against those of matrix matched standards. This method is compliant with NEPM Schedule B(3)
Total Mercury by FIMS	EG035T	SOIL	In house: Referenced to APHA 3112 Hg - B (Flow-injection (SnCl2) (Cold Vapour generation) AAS) FIM-AAS is an automated flameless atomic absorption technique. Mercury in solids are determined following an appropriate acid digestion. Ionic mercury is reduced online to atomic mercury vapour by SnCl2 which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM Schedule B(3)
Polychlorinated Biphenyls (PCB)	EP066	SOIL	In house: Referenced to USEPA SW 846 - 8270 Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3).
Pesticides by GCMS	EP068	SOIL	In house: Referenced to USEPA SW 846 - 8270 Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This technique is compliant with NEPM Schedule B(3).
TRH - Semivolatile Fraction	EP071	SOIL	In house: Referenced to USEPA SW 846 - 8015 Sample extracts are analysed by Capillary GC/FID and quantified against alkane standards over the range C10 - C40. Compliant with NEPM Schedule B(3).
Volatile Organic Compounds	EP074	SOIL	In house: Referenced to USEPA SW 846 - 8260 Extracts are analysed by Purge and Trap, Capillary GC/MS. Quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3).
PAH/Phenols (SIM)	EP075(SIM)	SOIL	In house: Referenced to USEPA SW 846 - 8270. Extracts are analysed by Capillary GC/MS in Selective Ion Mode (SIM) and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3)
TRH Volatiles/BTEX	EP080	SOIL	In house: Referenced to USEPA SW 846 - 8260. Extracts are analysed by Purge and Trap, Capillary GC/MS. Quantification is by comparison against an established 5 point calibration curve. Compliant with NEPM Schedule B(3) amended.
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	SOIL	In-house: Analysis of soils by solvent extraction followed by LC-Electrospray-MS-MS, Negative Mode using MRM using internal standard quantitation. Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to a portion of soil which is then extracted with MTBE and an ion pairing reagent. A portion of extract is exchanged into the analytical solvent mixture, combined with an equal volume reagent water and filtered for analysis. Method procedures and data quality objectives conform to US DoD QSM 5.3, table B-15 requirements.

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Analytical Methods	Method	Matrix	Method Descriptions
Asbestos Identification in Bulk Solids	EA200	SOLID	In house: Referenced to AS 4964 Method for the qualitative identification of asbestos in bulk samples Analysis by Polarised Light Microscopy including dispersion staining
Total Metals by ICP-MS - Suite A	EG020A-T	WATER	In house: Referenced to APHA 3125; USEPA SW846 - 6020, ALS QWI-EN/EG020. The ICPMS technique utilizes a highly efficient argon plasma to ionize selected elements. Ions are then passed into a high vacuum mass spectrometer, which separates the analytes based on their distinct mass to charge ratios prior to their measurement by a discrete dynode ion detector.
Total Mercury by FIMS	EG035T	WATER	In house: Referenced to APHA 3112 Hg - B (Flow-injection (SnCl2)(Cold Vapour generation) AAS) FIM-AAS is an automated flameless atomic absorption technique. A bromate/bromide reagent is used to oxidise any organic mercury compounds in the unfiltered sample. The ionic mercury is reduced online to atomic mercury vapour by SnCl2 which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM Schedule B(3).
TRH - Semivolatile Fraction	EP071	WATER	In house: Referenced to USEPA SW 846 - 8015 The sample extract is analysed by Capillary GC/FID and quantification is by comparison against an established 5 point calibration curve of n-Alkane standards. This method is compliant with the QC requirements of NEPM Schedule B(3)
TRH Volatiles/BTEX	EP080	WATER	In house: Referenced to USEPA SW 846 - 8260 Water samples are directly purged prior to analysis by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. Alternatively, a sample is equilibrated in a headspace vial and a portion of the headspace determined by GCMS analysis. This method is compliant with the QC requirements of NEPM Schedule B(3)
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	WATER	In-house: Analysis of fresh and saline waters by Solid Phase Extraction (SPE) followed by LC-Electrospray-MS-MS, Negative Mode using MRM and internal standard quantitation. Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to the sample container. The entire contents are transferred to a solid phase extraction (SPE) cartridge. The sample container is successively rinsed with aliquots of the elution solvent. The eluted extract is combined with an equal volume of reagent water and a portion is filtered for analysis. Method procedures and data quality objectives conform to US DoD QSM 5.3, table B-15 requirements.

Preparation Methods	Method	Matrix	Method Descriptions
Hot Block Digest for metals in soils sediments and sludges	EN69	SOIL	In house: Referenced to USEPA 200.2. Hot Block Acid Digestion 1.0g of sample is heated with Nitric and Hydrochloric acids, then cooled. Peroxide is added and samples heated and cooled again before being filtered and bulked to volume for analysis. Digest is appropriate for determination of selected metals in sludge, sediments, and soils. This method is compliant with NEPM Schedule B(3).
Methanolic Extraction of Soils for Purge and Trap	ORG16	SOIL	In house: Referenced to USEPA SW 846 - 5030A. 5g of solid is shaken with surrogate and 10mL methanol prior to analysis by Purge and Trap - GC/MS.
Tumbler Extraction of Solids	ORG17	SOIL	In house: Mechanical agitation (tumbler). 10g of sample, Na2SO4 and surrogate are extracted with 30mL 1:1 DCM/Acetone by end over end tumble. The solvent is decanted, dehydrated and concentrated (by KD) to the desired volume for analysis.
QuECheRS Extraction of Solids	ORG71	SOIL	In house: Sequential extractions with Acetonitrile/Methanol by shaking. Extraction efficiency aided by the addition of salts under acidic conditions. Where relevant, interferences from co-extracted organics are removed with dispersive clean-up media (dSPE). The extract is either diluted or concentrated and exchanged into the analytical solvent.

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Preparation Methods	Method	Matrix	Method Descriptions
Digestion for Total Recoverable Metals	EN25	WATER	In house: Referenced to USEPA SW846-3005. Method 3005 is a Nitric/Hydrochloric acid digestion procedure used to prepare surface and ground water samples for analysis by ICPAES or ICPMS. This method is compliant with NEPM Schedule B(3)
Separatory Funnel Extraction of Liquids	ORG14	WATER	In house: Referenced to USEPA SW 846 - 3510 100 mL to 1L of sample is transferred to a separatory funnel and serially extracted three times using DCM for each extract. The resultant extracts are combined, dehydrated and concentrated for analysis. This method is compliant with NEPM Schedule B(3) . ALS default excludes sediment which may be resident in the container.
Volatiles Water Preparation	ORG16-W	WATER	A 5 mL aliquot or 5 mL of a diluted sample is added to a 40 mL VOC vial for purging.
Solid Phase Extraction (SPE) for PFAS in water	ORG72	WATER	In-house: Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to the sample container. The entire contents are transferred to a solid phase extraction (SPE) cartridge. The sample container is successively rinsed with aliquots of the elution solvent. The eluted extract is combined with an equal volume of reagent water and a portion is filtered for analysis. Method procedures conform to US DoD QSM 5.3, table B-15 requirements.

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CHAIN OF CUSTODY

ALS Laboratory: please tick →

☐ Sydney: 277 Woodpark Rd, Smithfield NSW 2164 Ph: 02 8784 8555 E: samples.sydney@alsenviro.com

☐ Newcastle: 5 Rosegum Rd, Warabrook NSW 2304 Ph: 02 4958 9630 E: samples.newcastle@alsenviro.com

☐ Brisbane: 32 Shand St, Stafford QLD 4053 Ph: 07 3243 7222 E: samples.brisbane@alsenviro.com

☐ Townsville: 14-15 Desma Ct, Bohle QLD 4818 Ph: 07 4796 0600 E: townsville.environmental@alsenviro.com

☐ Melbourne: 2-4 Westall Rd, Springvale VIC 3171 Ph: 03 8549 9600 E: samples.melbourne@alsenviro.com

☐ Adelaide: 2-1 Burma Rd, Pooraka SA 5095 Ph: 08 8359 0890 E: adelaide@alsenviro.com

CLIENT:	ERM	TURNAROUND REQUIREMENTS: (Standard TAT may be longer for some tests e.g. Ultra Trace Organics)	☐ Standard TAT (List due date): ☐ Non Standard or urgent TAT (List due date):
OFFICE:	Sydney		
PROJECT:	0577577 - Burwood	ALS QUOTE NO.:	
ORDER NUMBER:			
PROJECT MANAGER:	Jessica Lawrence	CONTACT PH: 0404935554	
SAMPLER:	Tristan Rodrigues	SAMPLER MOBILE: 0417187687	
COC emailed to ALS?	YES	EDD FORMAT (or default):	
Email Reports to:	jessica.lawrence@erm.com, tristan.rodrigues@erm.com		
Email Invoice to:	jessica.lawrence@erm.com		

FOR LABORATORY USE ONLY (Circle)

Custody seal intact? Yes No N/A

Cooling Method: Ice Ice Brick present upon receipt? Yes No N/A

Random Sample Temperature on Receipt: 1.3 °C

Other comments:

COC SEQUENCE NUMBER (Circle)

COC: 1 2 3 4 5 6 7

OF: 1 2 3 4 5 6 7

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Tristan Rodrigues			
DATE/TIME: 22/12/21	DATE/TIME: 22/12/21 1610	DATE/TIME:	DATE/TIME:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE ONLY	SAMPLE DETAILS (MATRIX: Solid(S) Water(W))			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to attract suite price). Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required).							Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL BOTTLES	PFAS (28 analytes) LOR= 5ug/kg	S16	Asbestos	VOC			HOLD	Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc. Please use the lower hexavalent chromium LOR.
1	BUR_BH109_0.2	20/12/21	Soil			X	X	X	X				
2	-0.5						X						
3	-1.0						X		X			X	
4	-3.0					X	X						
5	BUR_BH111_0.2					[redacted]	X		X				
6	-0.5					X	X						
7	DUP-20211220					X	X						
—	TUP-20211220					X	X						Please Send to ALS
8	-2.0						X		X				
9	-5.0					X	X						
10	BUR_BH110_0.2					X	X		X				
11	-0.5						X						
12	-1.0						X		X				
13	-5.0					X	X						
					TOTAL								

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide/Cd Preserved; S = Sodium Hydroxide Preserved Plastic; AG = Amber Glass Unpreserved; AP = Airfreight Unpreserved Plastic
V = VOA Vial HCl Preserved; VB = VOA Vial Sodium Bisulphate Preserved; VS = VOA Vial Sulfuric Preserved; AV = Airfreight Unpreserved Vial SG = Sulfuric Preserved Amber Glass; H = HCl preserved Plastic; HS = HCl preserved Speciation bottle; SP = Sulfuric Preserved Plastic; F = For
Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; ASS = Plastic Bag for Acid Sulphate Soils; B = Unpreserved Bag.

Environmental Division
Sydney
Work Order Reference
ES2146990

Telephone : +61-2-8784 8555

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CHAIN OF CUSTODY

ALS Laboratory: please tick →

☐ Sydney: 277 Woodpark Rd, Smithfield NSW 2164 Ph: 02 8784 8555 E: samples.sydney@alsenviro.com

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☐ Townsville: 14-15 Desma Ct, Bohle QLD 4818 Ph: 07 4796 0600 E: townsville.environmental@alsenviro.com

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☐ Adelaide: 21 Burma Rd, Pooraka SA 5095 Ph: 08 8359 0890 E: adelaide@alsenviro.com

CLIENT:	ERM	TURNAROUND REQUIREMENTS : (Standard TAT may be longer for some tests e.g., Ultra Trace Organics)	☐ Standard TAT (List due date): ☐ Non Standard or urgent TAT (List due date):
OFFICE:	Sydney		
PROJECT:	0577577 - Burwood	ALS QUOTE NO.:	
ORDER NUMBER:			
PROJECT MANAGER:	Jessica Lawrence	CONTACT PH: 0404935554	
SAMPLER:	Tristan Rodrigues	SAMPLER MOBILE: 0417187687	
COC emailed to ALS? YES		EDD FORMAT (or default):	
Email Reports to: jessica.lawrence@erm.com, tristan.rodrigues@erm.com			
Email Invoice to: jessica.lawrence@erm.com			

FOR LABORATORY USE ONLY (Circle)

Chemical Impact: Yes / No / N/A

Free Ice / Frozen Ice bricks present upon receipt: Yes / No / N/A

Random Sample Temperature on Receipt: °C

Other comment: - 1 - 3

COC SEQUENCE NUMBER (Circle)

COC: 1 2 3 4 5 6 7

OF: 1 2 3 4 5 6 7

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Tristan Rodrigues	Scott Mc Kay		
DATE/TIME: 22/12/21	DATE/TIME: 22/12/21 1410	DATE/TIME:	DATE/TIME:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE ONLY	SAMPLE DETAILS MATRIX: Solid(S) Water(W)			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required).								Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL BOTTLES	PFAS (28 analytes) LOR= 5ug/kg	S16	Asbestos	VOC	8 Metals	BTEXN	TRH	HOLD	Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc. Please use the lower hexavalent chromium LOR.
14	BUR_BH15_0.2	20/12/21	Soil			X	X	X	X					
15	-1.0						X							
16	-2.0						X		X					
17	-5.0					X	X							
18	DOG_20211220						X		X					
—	TOG_20211220						X		X					Please Send to Eurofins
19	BUR_BH11A_0.2					X	X	X						
20	-0.5						X		X					
21	-5.0						X							
22	-10.0						X		X					
23	-15.0					X	X							
24	ROW_20211220	20/12/21	Water			X				X	X	X		
25	ROS_20211221	21/12/21	Water			Y				X	X	X		
26	TS/TB 53		Soil								X	X		
					TOTAL									

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide/Cd Preserved; S = Sodium Hydroxide Preserved Plastic; AG = Amber Glass Unpreserved; AP - Airfreight Unpreserved Plastic
V = VOA Vial HCl Preserved; VB = VOA Vial Sodium Bisulphate Preserved; VS = VOA Vial Sulfuric Preserved; AV = Airfreight Unpreserved Vial SG = Sulfuric Preserved Amber Glass; H = HCl preserved Plastic; HS = HCl preserved Speciation bottle; SP = Sulfuric Preserved Plastic; F = Formaldehyde Preserved Glass;
Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; ASS = Plastic Bag for Acid Sulphate Soils; B = Unpreserved Bag.

DRAFT

CHAIN OF CUSTODY

ALS Laboratory: please tick →

☐ Sydney: 277 Woodpark Rd, Smithfield NSW 2164 Ph: 02 8784 8555 E:samples.sydney@alsenviro.com

☐ Newcastle: 5 Rosegum Rd, Warabrook NSW 2304 Ph:02 4868 9433 E:samples.newcastle@alsenviro.com

☐ Brisbane: 32 Shand St, Stafford QLD 4053 Ph:07 3243 7222 E:samples.brisbane@alsenviro.com

☐ Townsville: 14-15 Desma Ct, Bohle QLD 4818 Ph:07 4796 0600 E: townsville.environmental@alsenviro.com

☐ Melbourne: 2-4 Westall Rd, Springvale VIC 3171 Ph:03 8549 9600 E: samples.melbourne@alsenviro.com

☐ Adelaide: 2-1 Burma Rd, Pooraka SA 5095 Ph: 08 8359 0890 E:adelaide@alsenviro.com

CLIENT:	ERM	TURNAROUND REQUIREMENTS : (Standard TAT may be longer for some tests e.g., Ultra Trace Organics)	☐ Standard TAT (List due date): ☐ Non Standard or urgent TAT (List due date):
OFFICE:	Sydney		
PROJECT:	0577577 - Burwood	ALS QUOTE NO.:	COC SEQUENCE NUMBER (Circle) COC: 1 2 3 4 5 6 7 OF: 1 2 3 4 5 6 7
ORDER NUMBER:			
PROJECT MANAGER:	Jessica Lawrence	CONTACT PH: 0404935554	
SAMPLER:	Tristan Rodrigues	SAMPLER MOBILE: 0417187687	
COC emailed to ALS? YES		EDD FORMAT (or default):	
Email Reports to: jessica.lawrence@erm.com, tristan.rodrigues@erm.com			
Email Invoice to: jessica.lawrence@erm.com			

FOR LABORATORY USE ONLY: (Circle)
Custody Seal Intact? Yes No N/A
Ice bricks/frozen ice bricks present upon arrival? Yes No N/A
Random Sample Temperature on Receipt: -13 °C
Other comment:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Tristan Rodrigues	SC AJ		
DATE/TIME: 22/12/21	DATE/TIME: 22/12/21 1410	DATE/TIME:	DATE/TIME:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE ONLY	SAMPLE DETAILS MATRIX: Solid(S) Water(W)			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required).								Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL BOTTLES	PFAS (28 analytes) LOR= 5ug/kg	S16	Asbestos	VOC				HOLD	Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc. Please use the lower hexavalent chromium LOR.
27	BUR_BH115_0.2	21/12/21	Soil			✓	✓	✓	✓					
28	-0.5						✓							
29	-1.0						✓		✓					
30	-5.0						✓							
31	-10.0						✓		✓					
32	-15.0					✓	✓							
33	BUR_BH117_0.2					✓	✓	✓	✓					
34	-1.0						✓							
35	-3.0					✓	✓							
36	DUP_20211221					✓	✓	✓	✓					
	TRIP_20211221					✓	✓	✓	✓					Please Send to Envirolab
37	BUR_BH125_0.2					✓	✓	✓						
38	-1.0						✓		✓					
39	-5.0					✓	✓							
					TOTAL									

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V = VOA Vial HCl Preserved; VB = VOA Vial Sodium Bisulphate Preserved; VS = VOA Vial Sulfuric Preserved; AV = Airfreight Unpreserved Vial SG = Sulfuric Preserved Amber Glass; H = HCl preserved Plastic; HS = HCl preserved Speciation bottle; SP = Sulfuric Preserved Plastic; F = Formaldehyde Preserved Glass;
Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; ASS = Plastic Bag for Acid Sulphate Soils; B = Unpreserved Bag.

DRAFT

CHAIN OF CUSTODY

ALS Laboratory: please tick →

☐ Sydney: 277 Woodpark Rd, Smithfield NSW 2164 Ph: 02 8784 8555 E:samples.sydney@alsenviro.com

☐ Newcastle: 5 Rosegum Rd, Warabrook NSW 2304 Ph:02 4968 8433 E:samples.newcastle@alsenviro.com

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☐ Townsville: 14-15 Desma Ct, Bohle QLD 4818 Ph:07 4796 0600 E: townsville.environmental@alsenviro.com

☐ Melbourne: 2-4 Westall Rd, Springvale VIC 3171 Ph:03 8549 9600 E: samples.melbourne@alsenviro.com

☐ Adelaide: 2-1 Burma Rd, Pooraka SA 5095 Ph: 08 8359 0890 E:adelaide@alsenviro.com

CLIENT:	ERM	TURNAROUND REQUIREMENTS : (Standard TAT may be longer for some tests e.g. Ultra Trace Organics)	☐ Standard TAT (List due date): ☐ Non Standard or urgent TAT (List due date):
OFFICE:	Sydney		
PROJECT:	0577577 - Burwood	ALS QUOTE NO.:	COC SEQUENCE NUMBER (Circle) COC: 1 2 3 4 5 6 7 OF: 1 2 3 4 5 6 7
ORDER NUMBER:			
PROJECT MANAGER:	Jessica Lawrence	CONTACT PH: 0404935554	
SAMPLER:	Tristan Rodrigues	SAMPLER MOBILE: 0417187687	
COC emailed to ALS? YES		EDD FORMAT (or default):	
Email Reports to: jessica.lawrence@erm.com, tristan.rodrigues@erm.com			
Email Invoice to: jessica.lawrence@erm.com			

FOR LABORATORY USE ONLY (Circle)
Custody Seal Intact? Yes No N/A
Free ice / frozen ice packs present upon receipt? Yes No N/A
Random Sample Temperature on Receipt: °C
Other comments: 1 & 3

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Tristan Rodrigues	SCO		
DATE/TIME: 22/12/21	DATE/TIME: 22/12/21 1410	DATE/TIME:	DATE/TIME:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE ONLY	SAMPLE DETAILS MATRIX: Solid(S) Water(W)			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required).								Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL BOTTLES	PFAS (28 analytes) LOR= 5ug/kg	S16	Asbestos	VOC				HOLD	Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc. Please use the lower hexavalent chromium LOR.
40	BUR_BH101_0.1	21/12/21	Soil			✓	✓	✓	✓					
41	-0.5													
42	-2.0								✓					
43	BUR_BH112_0.2					✓	✓	✓						
44	-0.5						X		✓					
45	-2.0													
46	-5.0					✓	✓		✓					
47	BUR_BH116_0.2					✓	✓							
48	DO7_20211221					✓	✓							
—	TO7_20211221					✓	✓							Please Send to Eurofins
49	BUR_BH116_0.5						✓		✓					
50	-3.0					✓	✓							
51	BUR_BH116_0.2_ACM		Frag					✓						
52	BUR_BH115_0.2		Soil			✓	✓	✓	✓					
				TOTAL	---	---	---	---	---	---	---	---	---	---

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide/Cd Preserved; S = Sodium Hydroxide Preserved Plastic; AG = Amber Glass Unpreserved; AP - Airfreight Unpreserved Plastic
V = VOA Vial HCl Preserved; VB = VOA Vial Sodium Bisulphate Preserved; VS = VOA Vial Sulfuric Preserved; AV = Airfreight Unpreserved Vial SG = Sulfuric Preserved Amber Glass; H = HCl preserved Plastic; HS = HCl preserved Speciation bottle; SP = Sulfuric Preserved Plastic; F = Formaldehyde Preserved Glass;
Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; ASS = Plastic Bag for Acid Sulphate Soils; B = Unpreserved Bag

DRAFT

Thank Khaleda,

Happy New Year and apologies for the late reply on this.

- Could Sample 38 be labelled as BH125 – 0.5
- Noted for sample 115-0.2
- Sorry no asbestos analysis required on sample 36

Could you please reissue the result with the updated labelling

Kind Regards

Tristan Rodrigues
Environmental Consultant

ERM
Unit 11, 277 Lane Cove Road | Macquarie Park | NSW | 2113
T +61 2 8586 8750 **M** +61417187687
E Tristan.Rodrigues@erm.com | **W** www.erm.com

ERM *The business of sustainability*

Environmental Division
Sydney
Work Order Reference
ES2146990

Telephone : +61-2-8784 8555

From: Khaleda Ataei <khaleda.ataei@ALSGlobal.com>
Sent: Friday, December 24, 2021 2:16 PM
To: Tristan Rodrigues <Tristan.Rodrigues@erm.com>
Subject: ALS Workorder ES2146990, Client ENVRES, Project 0577577 - Burwood

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi Tristan,

I hope you are doing well.

I just wanted to let you know that for the attached COC, we have received 2 sets of TB and TS samples. We have scheduled one for analysis as per the COC and kept the other one on hold.

- Sample 38 - BH125 -1.0 was received as BH125 – 0.5
- Sample BH115 – 0.2 has been listed twice on the COC as #27 and 52, we have logged this as #27
- No Asbestos bag was received for sample 36 therefore Asbestos was not logged.
- One Asbestos bag was received without any sample ID – has been kept on hold.

Thank you

Kind regards,

Khaleda Ataei

Client Services Officer, Environmental
Sydney

DRAFT

D +61 2 8784 8603

F +61 2 8784 8500

Khaleda.ataei@alsglobal.com

277-289 Woodpark Road
Smithfield NSW 2164 AUSTRALIA

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ALS Environmental

CERTIFICATE OF ANALYSIS

Work Order	: **ES2201979**	Page	: 1 of 18
Client	: **ENVIRONMENTAL RESOURCES MANAGEMENT (ERM)**	Laboratory	: Environmental Division Sydney
Contact	: NICHOLAS GRBICH	Contact	: Customer Services ES
Address	: LEVEL 15 309 KENT STREET SYDNEY NSW AUSTRALIA 2000	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: ----	Telephone	: +61-2-8784 8555
Project	: 0628507	Date Samples Received	: 20-Jan-2022 19:00
Order number	: ----	Date Analysis Commenced	: 22-Jan-2022
C-O-C number	: ----	Issue Date	: 31-Jan-2022 18:28
Sampler	: TAJ MONDON		
Site	: ----		
Quote number	: EN/114		
No. of samples received	: 16		
No. of samples analysed	: 14		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Ankit Joshi	Inorganic Chemist	Sydney Inorganics, Smithfield, NSW
Edwandy Fadjar	Organic Coordinator	Sydney Organics, Smithfield, NSW
Ivan Taylor	Analyst	Sydney Inorganics, Smithfield, NSW

DRAFT

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- EK059G: LOR raised for NOx due to sample matrix.
- EP075 (SIM): Where reported, Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) per the NEPM (2013) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a.h)anthracene (1.0), Benzo(g.h.i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero.
- EP080: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EP074: Where reported, Total Trihalomethanes is the sum of the reported concentrations of all Trihalomethanes at or above the LOR.
- EP074: Where reported, Total Trimethylbenzenes is the sum of the reported concentrations of 1.2.3-Trimethylbenzene, 1.2.4-Trimethylbenzene and 1.3.5-Trimethylbenzene at or above the LOR.
- EP075(SIM): Where reported, Total Cresol is the sum of the reported concentrations of 2-Methylphenol and 3- & 4-Methylphenol at or above the LOR.
- EK057G: LOR raised for Nitrite on a few samples due to sample matrix.
- EP080&74: ES2201979-08 has been confrimed by re-analysis.
- TDS by method EA-015 may bias high for various samples due to the presence of fine particulate matter, which may pass through the prescribed GF/C paper.
- Sodium Adsorption Ratio (where reported): Where results for Na, Ca or Mg are <LOR, a concentration at half the reported LOR is incorporated into the SAR calculation. This represents a conservative approach for Na relative to the assumption that <LOR = zero concentration and a conservative approach for Ca & Mg relative to the assumption that <LOR is equivalent to the LOR concentration.

DRAFT

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	S51	S54	S02_d	S06	S40_s
				Sampling date / time	20-Jan-2022 00:00	20-Jan-2022 00:00	20-Jan-2022 00:00	20-Jan-2022 00:00	20-Jan-2022 00:00
Compound	CAS Number	LOR	Unit		ES2201979-001	ES2201979-002	ES2201979-003	ES2201979-004	ES2201979-005
					Result	Result	Result	Result	Result
EA015: Total Dissolved Solids dried at 180 ± 5 °C									
Total Dissolved Solids @180°C	----	10	mg/L		831	8360	2550	1280	446
ED037P: Alkalinity by PC Titrator									
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L		<1	<1	<1	<1	<1
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L		<1	<1	<1	<1	<1
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L		700	59	270	418	205
Total Alkalinity as CaCO3	----	1	mg/L		700	59	270	418	205
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA									
Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L		6	334	126	102	64
ED045G: Chloride by Discrete Analyser									
Chloride	16887-00-6	1	mg/L		44	4650	767	457	48
ED093F: Dissolved Major Cations									
Calcium	7440-70-2	1	mg/L		150	105	15	26	77
Magnesium	7439-95-4	1	mg/L		49	279	24	30	9
Sodium	7440-23-5	1	mg/L		67	2060	554	376	35
Potassium	7440-09-7	1	mg/L		23	90	28	33	12
EG020F: Dissolved Metals by ICP-MS									
Arsenic	7440-38-2	0.001	mg/L		0.065	0.002	0.001	0.002	<0.001
Cadmium	7440-43-9	0.0001	mg/L		<0.0001	<0.0001	<0.0001	<0.0001	0.0003
Chromium	7440-47-3	0.001	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001
Copper	7440-50-8	0.001	mg/L		<0.001	0.006	0.002	0.002	0.011
Lead	7439-92-1	0.001	mg/L		<0.001	0.002	<0.001	<0.001	<0.001
Nickel	7440-02-0	0.001	mg/L		<0.001	0.002	0.002	0.002	0.007
Zinc	7440-66-6	0.005	mg/L		<0.005	0.006	<0.005	<0.005	0.287
Iron	7439-89-6	0.05	mg/L		19.1	51.5	0.44	13.4	0.32
EG035F: Dissolved Mercury by FIMS									
Mercury	7439-97-6	0.0001	mg/L		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
EK055G: Ammonia as N by Discrete Analyser									
Ammonia as N	7664-41-7	0.01	mg/L		4.75	0.64	0.29	0.57	0.04
EK057G: Nitrite as N by Discrete Analyser									
Nitrite as N	14797-65-0	0.01	mg/L		<0.10	<0.10	<0.01	<0.01	0.03
EK058G: Nitrate as N by Discrete Analyser									
Nitrate as N	14797-55-8	0.01	mg/L		<0.10	<0.10	0.04	0.02	0.46
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser									

DRAFT

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	S51	S54	S02_d	S06	S40_s
			Sampling date / time	20-Jan-2022 00:00	20-Jan-2022 00:00	20-Jan-2022 00:00	20-Jan-2022 00:00	20-Jan-2022 00:00
Compound	CAS Number	LOR	Unit	ES2201979-001	ES2201979-002	ES2201979-003	ES2201979-004	ES2201979-005
				Result	Result	Result	Result	Result
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser - Continued								
Nitrite + Nitrate as N	----	0.01	mg/L	<0.10	<0.10	0.04	0.02	0.49
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser								
Total Kjeldahl Nitrogen as N	----	0.1	mg/L	6.8	3.9	4.6	1.0	0.3
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser								
^ Total Nitrogen as N	----	0.1	mg/L	6.8	3.9	4.6	1.0	0.8
EK067G: Total Phosphorus as P by Discrete Analyser								
Total Phosphorus as P	----	0.01	mg/L	0.68	1.15	1.45	0.03	0.66
EN055: Ionic Balance								
ø Total Anions	----	0.01	meq/L	15.4	139	29.6	23.4	6.78
ø Total Cations	----	0.01	meq/L	15.0	120	27.5	21.0	6.41
ø Ionic Balance	----	0.01	%	1.09	7.40	3.70	5.42	2.80
EP074A: Monocyclic Aromatic Hydrocarbons								
Styrene	100-42-5	5	µg/L	<5	<5	<5	<5	<5
Isopropylbenzene	98-82-8	5	µg/L	<5	<5	<5	<5	<5
n-Propylbenzene	103-65-1	5	µg/L	<5	<5	<5	<5	<5
1.3.5-Trimethylbenzene	108-67-8	5	µg/L	<5	<5	<5	<5	<5
sec-Butylbenzene	135-98-8	5	µg/L	<5	<5	<5	<5	<5
1.2.4-Trimethylbenzene	95-63-6	5	µg/L	<5	<5	<5	<5	<5
tert-Butylbenzene	98-06-6	5	µg/L	<5	<5	<5	<5	<5
p-Isopropyltoluene	99-87-6	5	µg/L	<5	<5	<5	<5	<5
n-Butylbenzene	104-51-8	5	µg/L	<5	<5	<5	<5	<5
EP074B: Oxygenated Compounds								
Vinyl Acetate	108-05-4	50	µg/L	<50	<50	<50	<50	<50
2-Butanone (MEK)	78-93-3	50	µg/L	<50	<50	<50	<50	<50
4-Methyl-2-pentanone (MIBK)	108-10-1	50	µg/L	<50	<50	<50	<50	<50
2-Hexanone (MBK)	591-78-6	50	µg/L	<50	<50	<50	<50	<50
EP074C: Sulfonated Compounds								
Carbon disulfide	75-15-0	5	µg/L	<5	<5	<5	<5	<5
EP074D: Fumigants								
2.2-Dichloropropane	594-20-7	5	µg/L	<5	<5	<5	<5	<5
1.2-Dichloropropane	78-87-5	5	µg/L	<5	<5	<5	<5	<5
cis-1.3-Dichloropropylene	10061-01-5	5	µg/L	<5	<5	<5	<5	<5
trans-1.3-Dichloropropylene	10061-02-6	5	µg/L	<5	<5	<5	<5	<5
1.2-Dibromoethane (EDB)	106-93-4	5	µg/L	<5	<5	<5	<5	<5

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Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	S51	S54	S02_d	S06	S40_s
			Sampling date / time	20-Jan-2022 00:00	20-Jan-2022 00:00	20-Jan-2022 00:00	20-Jan-2022 00:00	20-Jan-2022 00:00
Compound	CAS Number	LOR	Unit	ES2201979-001	ES2201979-002	ES2201979-003	ES2201979-004	ES2201979-005
				Result	Result	Result	Result	Result
EP074E: Halogenated Aliphatic Compounds								
Dichlorodifluoromethane	75-71-8	50	µg/L	<50	<50	<50	<50	<50
Chloromethane	74-87-3	50	µg/L	<50	<50	<50	<50	<50
Vinyl chloride	75-01-4	50	µg/L	<50	<50	<50	<50	<50
Bromomethane	74-83-9	50	µg/L	<50	<50	<50	<50	<50
Chloroethane	75-00-3	50	µg/L	<50	<50	<50	<50	<50
Trichlorofluoromethane	75-69-4	50	µg/L	<50	<50	<50	<50	<50
1.1-Dichloroethene	75-35-4	5	µg/L	<5	<5	<5	<5	<5
Iodomethane	74-88-4	5	µg/L	<5	<5	<5	<5	<5
trans-1.2-Dichloroethene	156-60-5	5	µg/L	<5	<5	<5	<5	<5
1.1-Dichloroethane	75-34-3	5	µg/L	<5	<5	<5	<5	<5
cis-1.2-Dichloroethene	156-59-2	5	µg/L	<5	<5	<5	<5	<5
1.1.1-Trichloroethane	71-55-6	5	µg/L	<5	<5	<5	<5	<5
1.1-Dichloropropylene	563-58-6	5	µg/L	<5	<5	<5	<5	<5
Carbon Tetrachloride	56-23-5	5	µg/L	<5	<5	<5	<5	<5
1.2-Dichloroethane	107-06-2	5	µg/L	<5	<5	<5	<5	<5
Trichloroethene	79-01-6	5	µg/L	<5	<5	<5	<5	<5
Dibromomethane	74-95-3	5	µg/L	<5	<5	<5	<5	<5
1.1.2-Trichloroethane	79-00-5	5	µg/L	<5	<5	<5	<5	<5
1.3-Dichloropropane	142-28-9	5	µg/L	<5	<5	<5	<5	<5
Tetrachloroethene	127-18-4	5	µg/L	<5	<5	<5	<5	<5
1.1.1.2-Tetrachloroethane	630-20-6	5	µg/L	<5	<5	<5	<5	<5
trans-1.4-Dichloro-2-butene	110-57-6	5	µg/L	<5	<5	<5	<5	<5
cis-1.4-Dichloro-2-butene	1476-11-5	5	µg/L	<5	<5	<5	<5	<5
1.1.2.2-Tetrachloroethane	79-34-5	5	µg/L	<5	<5	<5	<5	<5
1.2.3-Trichloropropane	96-18-4	5	µg/L	<5	<5	<5	<5	<5
Pentachloroethane	76-01-7	5	µg/L	<5	<5	<5	<5	<5
1.2-Dibromo-3-chloropropane	96-12-8	5	µg/L	<5	<5	<5	<5	<5
Hexachlorobutadiene	87-68-3	5	µg/L	<5	<5	<5	<5	<5
EP074F: Halogenated Aromatic Compounds								
Chlorobenzene	108-90-7	5	µg/L	<5	<5	<5	<5	<5
Bromobenzene	108-86-1	5	µg/L	<5	<5	<5	<5	<5
2-Chlorotoluene	95-49-8	5	µg/L	<5	<5	<5	<5	<5
4-Chlorotoluene	106-43-4	5	µg/L	<5	<5	<5	<5	<5
1.3-Dichlorobenzene	541-73-1	5	µg/L	<5	<5	<5	<5	<5
1.4-Dichlorobenzene	106-46-7	5	µg/L	<5	<5	<5	<5	<5

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Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	S51	S54	S02_d	S06	S40_s
				Sampling date / time	20-Jan-2022 00:00	20-Jan-2022 00:00	20-Jan-2022 00:00	20-Jan-2022 00:00	20-Jan-2022 00:00
Compound	CAS Number	LOR	Unit		ES2201979-001	ES2201979-002	ES2201979-003	ES2201979-004	ES2201979-005
					Result	Result	Result	Result	Result
EP074F: Halogenated Aromatic Compounds - Continued									
1.2-Dichlorobenzene	95-50-1	5	µg/L		<5	<5	<5	<5	<5
1.2.4-Trichlorobenzene	120-82-1	5	µg/L		<5	<5	<5	<5	<5
1.2.3-Trichlorobenzene	87-61-6	5	µg/L		<5	<5	<5	<5	<5
EP074G: Trihalomethanes									
Chloroform	67-66-3	5	µg/L		<5	<5	<5	<5	<5
Bromodichloromethane	75-27-4	5	µg/L		<5	<5	<5	<5	<5
Dibromochloromethane	124-48-1	5	µg/L		<5	<5	<5	<5	<5
Bromoform	75-25-2	5	µg/L		<5	<5	<5	<5	<5
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Acenaphthylene	208-96-8	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Acenaphthene	83-32-9	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Fluorene	86-73-7	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Phenanthrene	85-01-8	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Anthracene	120-12-7	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Fluoranthene	206-44-0	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Pyrene	129-00-0	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benz(a)anthracene	56-55-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Chrysene	218-01-9	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(b+j)fluoranthene	205-99-2 205-82-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(k)fluoranthene	207-08-9	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(a)pyrene	50-32-8	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Dibenz(a.h)anthracene	53-70-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(g.h.i)perylene	191-24-2	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	20	µg/L		<20	<20	<20	<20	<20
C10 - C14 Fraction	----	50	µg/L		<50	<50	<50	<50	<50
C15 - C28 Fraction	----	100	µg/L		<100	<100	<100	<100	<100
C29 - C36 Fraction	----	50	µg/L		<50	<50	<50	<50	<50
^ C10 - C36 Fraction (sum)	----	50	µg/L		<50	<50	<50	<50	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									

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Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	S51	S54	S02_d	S06	S40_s
				Sampling date / time	20-Jan-2022 00:00	20-Jan-2022 00:00	20-Jan-2022 00:00	20-Jan-2022 00:00	20-Jan-2022 00:00
Compound	CAS Number	LOR	Unit		ES2201979-001	ES2201979-002	ES2201979-003	ES2201979-004	ES2201979-005
					Result	Result	Result	Result	Result
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued									
C6 - C10 Fraction	C6_C10	20	µg/L		<20	<20	<20	<20	<20
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	µg/L		<20	<20	<20	<20	<20
>C10 - C16 Fraction	----	100	µg/L		<100	<100	<100	<100	<100
>C16 - C34 Fraction	----	100	µg/L		<100	<100	<100	<100	<100
>C34 - C40 Fraction	----	100	µg/L		<100	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	100	µg/L		<100	<100	<100	<100	<100
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	100	µg/L		<100	<100	<100	<100	<100
EP080: BTEXN									
Benzene	71-43-2	1	µg/L		<1	<1	<1	<1	<1
Toluene	108-88-3	2	µg/L		<2	<2	<2	<2	<2
Ethylbenzene	100-41-4	2	µg/L		<2	<2	<2	<2	<2
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L		<2	<2	<2	<2	<2
ortho-Xylene	95-47-6	2	µg/L		<2	<2	<2	<2	<2
^ Total Xylenes	----	2	µg/L		<2	<2	<2	<2	<2
^ Sum of BTEX	----	1	µg/L		<1	<1	<1	<1	<1
Naphthalene	91-20-3	5	µg/L		<5	<5	<5	<5	<5
EP074S: VOC Surrogates									
1.2-Dichloroethane-D4	17060-07-0	5	%		96.0	98.2	101	99.9	99.6
Toluene-D8	2037-26-5	5	%		114	106	108	111	110
4-Bromofluorobenzene	460-00-4	5	%		104	98.7	102	94.4	89.6
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	1.0	%		20.9	23.4	25.1	25.1	22.9
2-Chlorophenol-D4	93951-73-6	1.0	%		57.6	60.1	62.2	61.3	61.1
2.4.6-Tribromophenol	118-79-6	1.0	%		68.5	68.9	79.5	90.0	65.6
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	1.0	%		72.4	79.8	75.2	78.4	77.0
Anthracene-d10	1719-06-8	1.0	%		92.5	98.3	93.2	90.4	96.6
4-Terphenyl-d14	1718-51-0	1.0	%		82.6	89.1	95.8	91.7	86.5
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	2	%		102	108	108	112	111
Toluene-D8	2037-26-5	2	%		114	115	107	115	115
4-Bromofluorobenzene	460-00-4	2	%		107	108	103	109	107

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Analytical Results

Sub-Matrix: **WATER**
(Matrix: **WATER**)

Compound	CAS Number	LOR	Unit	Sample ID	S40_d	SMW_BH120	SMW_BH019	D01_220119	RO1-220119
				Sampling date / time	19-Jan-2022 00:00	19-Jan-2022 00:00	19-Jan-2022 00:00	19-Jan-2022 00:00	19-Jan-2022 00:00
					ES2201979-006	ES2201979-007	ES2201979-008	ES2201979-009	ES2201979-011
					Result	Result	Result	Result	Result
EA015: Total Dissolved Solids dried at 180 ± 5 °C									
Total Dissolved Solids @180°C	----	10	mg/L		**15000**	**12300**	**11800**	**11700**	---
ED037P: Alkalinity by PC Titrator									
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L		<1	<1	<1	<1	---
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L		<1	<1	<1	<1	---
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L		**70**	**673**	**856**	**855**	---
Total Alkalinity as CaCO3	----	1	mg/L		**70**	**673**	**856**	**855**	---
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA									
Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L		**680**	**501**	**2**	**1**	---
ED045G: Chloride by Discrete Analyser									
Chloride	16887-00-6	1	mg/L		**8110**	**6750**	**6580**	**6510**	---
ED093F: Dissolved Major Cations									
Calcium	7440-70-2	1	mg/L		**325**	**247**	**411**	**416**	---
Magnesium	7439-95-4	1	mg/L		**459**	**474**	**358**	**365**	---
Sodium	7440-23-5	1	mg/L		**3640**	**3360**	**2650**	**2700**	---
Potassium	7440-09-7	1	mg/L		**77**	**51**	**43**	**43**	---
EG020F: Dissolved Metals by ICP-MS									
Arsenic	7440-38-2	0.001	mg/L		**0.001**	<0.001	<0.001	<0.001	<0.001
Cadmium	7440-43-9	0.0001	mg/L		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Chromium	7440-47-3	0.001	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001
Copper	7440-50-8	0.001	mg/L		**0.005**	<0.001	**0.002**	**0.002**	<0.001
Lead	7439-92-1	0.001	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001
Nickel	7440-02-0	0.001	mg/L		**0.080**	<0.001	**0.001**	**0.002**	<0.001
Zinc	7440-66-6	0.005	mg/L		<0.005	<0.005	**0.014**	**0.013**	<0.005
Iron	7439-89-6	0.05	mg/L		**330**	**1.99**	**5.77**	**5.78**	<0.05
EG035F: Dissolved Mercury by FIMS									
Mercury	7439-97-6	0.0001	mg/L		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
EK055G: Ammonia as N by Discrete Analyser									
Ammonia as N	7664-41-7	0.01	mg/L		**1.07**	**1.66**	**4.76**	**4.61**	**0.02**
EK057G: Nitrite as N by Discrete Analyser									
Nitrite as N	14797-65-0	0.01	mg/L		<0.10	<0.01	<0.01	<0.01	---
EK058G: Nitrate as N by Discrete Analyser									
Nitrate as N	14797-55-8	0.01	mg/L		<0.10	**0.02**	**0.02**	**0.02**	---
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser									

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Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	S40_d	SMW_BH120	SMW_BH019	D01_220119	RO1-220119
			Sampling date / time	19-Jan-2022 00:00	19-Jan-2022 00:00	19-Jan-2022 00:00	19-Jan-2022 00:00	19-Jan-2022 00:00
Compound	CAS Number	LOR	Unit	ES2201979-006	ES2201979-007	ES2201979-008	ES2201979-009	ES2201979-011
				Result	Result	Result	Result	Result
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser - Continued								
Nitrite + Nitrate as N	----	0.01	mg/L	<0.10	0.02	0.02	0.02	<0.01
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser								
Total Kjeldahl Nitrogen as N	----	0.1	mg/L	2.2	2.3	6.4	6.3	<0.1
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser								
^ Total Nitrogen as N	----	0.1	mg/L	2.2	2.3	6.4	6.3	<0.1
EK067G: Total Phosphorus as P by Discrete Analyser								
Total Phosphorus as P	----	0.01	mg/L	0.27	0.15	0.27	0.27	<0.01
EN055: Ionic Balance								
ø Total Anions	----	0.01	meq/L	244	214	203	201	---
ø Total Cations	----	0.01	meq/L	214	199	166	169	---
ø Ionic Balance	----	0.01	%	6.55	3.75	9.87	8.48	---
EP074A: Monocyclic Aromatic Hydrocarbons								
Styrene	100-42-5	5	µg/L	<5	<5	<5	<5	<5
Isopropylbenzene	98-82-8	5	µg/L	<5	<5	<5	<5	<5
n-Propylbenzene	103-65-1	5	µg/L	<5	<5	<5	<5	<5
1.3.5-Trimethylbenzene	108-67-8	5	µg/L	<5	<5	<5	<5	<5
sec-Butylbenzene	135-98-8	5	µg/L	<5	<5	<5	<5	<5
1.2.4-Trimethylbenzene	95-63-6	5	µg/L	<5	<5	<5	<5	<5
tert-Butylbenzene	98-06-6	5	µg/L	<5	<5	<5	<5	<5
p-Isopropyltoluene	99-87-6	5	µg/L	<5	<5	<5	<5	<5
n-Butylbenzene	104-51-8	5	µg/L	<5	<5	<5	<5	<5
EP074B: Oxygenated Compounds								
Vinyl Acetate	108-05-4	50	µg/L	<50	<50	<50	<50	<50
2-Butanone (MEK)	78-93-3	50	µg/L	<50	<50	<50	<50	<50
4-Methyl-2-pentanone (MIBK)	108-10-1	50	µg/L	<50	<50	<50	<50	<50
2-Hexanone (MBK)	591-78-6	50	µg/L	<50	<50	<50	<50	<50
EP074C: Sulfonated Compounds								
Carbon disulfide	75-15-0	5	µg/L	<5	<5	<5	<5	<5
EP074D: Fumigants								
2.2-Dichloropropane	594-20-7	5	µg/L	<5	<5	<5	<5	<5
1.2-Dichloropropane	78-87-5	5	µg/L	<5	<5	<5	<5	<5
cis-1.3-Dichloropropylene	10061-01-5	5	µg/L	<5	<5	<5	<5	<5
trans-1.3-Dichloropropylene	10061-02-6	5	µg/L	<5	<5	<5	<5	<5
1.2-Dibromoethane (EDB)	106-93-4	5	µg/L	<5	<5	<5	<5	<5

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Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	S40_d	SMW_BH120	SMW_BH019	D01_220119	RO1-220119
			Sampling date / time	19-Jan-2022 00:00	19-Jan-2022 00:00	19-Jan-2022 00:00	19-Jan-2022 00:00	19-Jan-2022 00:00
Compound	CAS Number	LOR	Unit	ES2201979-006	ES2201979-007	ES2201979-008	ES2201979-009	ES2201979-011
				Result	Result	Result	Result	Result
EP074E: Halogenated Aliphatic Compounds								
Dichlorodifluoromethane	75-71-8	50	µg/L	<50	<50	<50	<50	<50
Chloromethane	74-87-3	50	µg/L	<50	<50	<50	<50	<50
Vinyl chloride	75-01-4	50	µg/L	<50	<50	<50	<50	<50
Bromomethane	74-83-9	50	µg/L	<50	<50	<50	<50	<50
Chloroethane	75-00-3	50	µg/L	<50	<50	<50	<50	<50
Trichlorofluoromethane	75-69-4	50	µg/L	<50	<50	<50	<50	<50
1.1-Dichloroethene	75-35-4	5	µg/L	<5	<5	<5	<5	<5
Iodomethane	74-88-4	5	µg/L	<5	<5	<5	<5	<5
trans-1.2-Dichloroethene	156-60-5	5	µg/L	<5	<5	<5	<5	<5
1.1-Dichloroethane	75-34-3	5	µg/L	<5	<5	<5	<5	<5
cis-1.2-Dichloroethene	156-59-2	5	µg/L	<5	<5	<5	<5	<5
1.1.1-Trichloroethane	71-55-6	5	µg/L	<5	<5	<5	<5	<5
1.1-Dichloropropylene	563-58-6	5	µg/L	<5	<5	<5	<5	<5
Carbon Tetrachloride	56-23-5	5	µg/L	<5	<5	<5	<5	<5
1.2-Dichloroethane	107-06-2	5	µg/L	<5	<5	<5	<5	<5
Trichloroethene	79-01-6	5	µg/L	<5	<5	<5	<5	<5
Dibromomethane	74-95-3	5	µg/L	<5	<5	<5	<5	<5
1.1.2-Trichloroethane	79-00-5	5	µg/L	<5	<5	<5	<5	<5
1.3-Dichloropropane	142-28-9	5	µg/L	<5	<5	<5	<5	<5
Tetrachloroethene	127-18-4	5	µg/L	<5	<5	<5	<5	<5
1.1.1.2-Tetrachloroethane	630-20-6	5	µg/L	<5	<5	<5	<5	<5
trans-1.4-Dichloro-2-butene	110-57-6	5	µg/L	<5	<5	<5	<5	<5
cis-1.4-Dichloro-2-butene	1476-11-5	5	µg/L	<5	<5	<5	<5	<5
1.1.2.2-Tetrachloroethane	79-34-5	5	µg/L	<5	<5	<5	<5	<5
1.2.3-Trichloropropane	96-18-4	5	µg/L	<5	<5	<5	<5	<5
Pentachloroethane	76-01-7	5	µg/L	<5	<5	<5	<5	<5
1.2-Dibromo-3-chloropropane	96-12-8	5	µg/L	<5	<5	<5	<5	<5
Hexachlorobutadiene	87-68-3	5	µg/L	<5	<5	<5	<5	<5
EP074F: Halogenated Aromatic Compounds								
Chlorobenzene	108-90-7	5	µg/L	<5	<5	<5	<5	<5
Bromobenzene	108-86-1	5	µg/L	<5	<5	<5	<5	<5
2-Chlorotoluene	95-49-8	5	µg/L	<5	<5	<5	<5	<5
4-Chlorotoluene	106-43-4	5	µg/L	<5	<5	<5	<5	<5
1.3-Dichlorobenzene	541-73-1	5	µg/L	<5	<5	<5	<5	<5
1.4-Dichlorobenzene	106-46-7	5	µg/L	<5	<5	<5	<5	<5

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Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	S40_d	SMW_BH120	SMW_BH019	D01_220119	RO1-220119
				Sampling date / time	19-Jan-2022 00:00	19-Jan-2022 00:00	19-Jan-2022 00:00	19-Jan-2022 00:00	19-Jan-2022 00:00
Compound	CAS Number	LOR	Unit		ES2201979-006	ES2201979-007	ES2201979-008	ES2201979-009	ES2201979-011
					Result	Result	Result	Result	Result
EP074F: Halogenated Aromatic Compounds - Continued									
1.2-Dichlorobenzene	95-50-1	5	µg/L		<5	<5	<5	<5	<5
1.2.4-Trichlorobenzene	120-82-1	5	µg/L		<5	<5	<5	<5	<5
1.2.3-Trichlorobenzene	87-61-6	5	µg/L		<5	<5	<5	<5	<5
EP074G: Trihalomethanes									
Chloroform	67-66-3	5	µg/L		<5	<5	<5	<5	<5
Bromodichloromethane	75-27-4	5	µg/L		<5	<5	<5	<5	<5
Dibromochloromethane	124-48-1	5	µg/L		<5	<5	<5	<5	<5
Bromoform	75-25-2	5	µg/L		<5	<5	<5	<5	<5
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Acenaphthylene	208-96-8	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Acenaphthene	83-32-9	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Fluorene	86-73-7	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Phenanthrene	85-01-8	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Anthracene	120-12-7	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Fluoranthene	206-44-0	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Pyrene	129-00-0	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benz(a)anthracene	56-55-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Chrysene	218-01-9	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(b+j)fluoranthene	205-99-2 205-82-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(k)fluoranthene	207-08-9	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(a)pyrene	50-32-8	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Dibenz(a.h)anthracene	53-70-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(g.h.i)perylene	191-24-2	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	20	µg/L		<20	<20	<20	<20	<20
C10 - C14 Fraction	----	50	µg/L		<50	<50	<50	<50	<50
C15 - C28 Fraction	----	100	µg/L		<100	<100	<100	<100	<100
C29 - C36 Fraction	----	50	µg/L		<50	<50	<50	<50	<50
^ C10 - C36 Fraction (sum)	----	50	µg/L		<50	<50	<50	<50	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									

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Analytical Results

Sub-Matrix: **WATER** (Matrix: **WATER**)

Compound	CAS Number	LOR	Unit	Sample ID	S40_d	SMW_BH120	SMW_BH019	D01_220119	RO1-220119
				Sampling date / time	19-Jan-2022 00:00	19-Jan-2022 00:00	19-Jan-2022 00:00	19-Jan-2022 00:00	19-Jan-2022 00:00
					ES2201979-006	ES2201979-007	ES2201979-008	ES2201979-009	ES2201979-011
					Result	Result	Result	Result	Result
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued									
C6 - C10 Fraction	C6_C10	20	µg/L		<20	<20	<20	<20	<20
^ **C6 - C10 Fraction minus BTEX (F1)**	C6_C10-BTEX	20	µg/L		<20	<20	<20	<20	<20
>C10 - C16 Fraction	----	100	µg/L		<100	<100	<100	<100	<100
>C16 - C34 Fraction	----	100	µg/L		<100	<100	<100	<100	<100
>C34 - C40 Fraction	----	100	µg/L		<100	<100	<100	<100	<100
^ **>C10 - C40 Fraction (sum)**	----	100	µg/L		<100	<100	<100	<100	<100
^ **>C10 - C16 Fraction minus Naphthalene (F2)**	----	100	µg/L		<100	<100	<100	<100	<100
EP080: BTEXN									
Benzene	71-43-2	1	µg/L		<1	<1	1	1	<1
Toluene	108-88-3	2	µg/L		<2	<2	<2	<2	<2
Ethylbenzene	100-41-4	2	µg/L		<2	<2	<2	<2	<2
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L		<2	<2	<2	<2	<2
ortho-Xylene	95-47-6	2	µg/L		<2	<2	<2	<2	<2
^ **Total Xylenes**	----	2	µg/L		<2	<2	<2	<2	<2
^ **Sum of BTEX**	----	1	µg/L		<1	<1	1	1	<1
Naphthalene	91-20-3	5	µg/L		<5	<5	<5	<5	<5
EP074S: VOC Surrogates									
1.2-Dichloroethane-D4	17060-07-0	5	%		102	101	88.2	101	99.4
Toluene-D8	2037-26-5	5	%		112	112	95.3	110	105
4-Bromofluorobenzene	460-00-4	5	%		93.5	94.0	80.0	93.1	87.1
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	1.0	%		18.5	19.3	18.0	22.3	17.9
2-Chlorophenol-D4	93951-73-6	1.0	%		52.0	52.7	51.1	59.0	49.5
2.4.6-Tribromophenol	118-79-6	1.0	%		69.5	63.5	55.7	67.0	48.4
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	1.0	%		72.9	72.5	67.5	80.7	62.7
Anthracene-d10	1719-06-8	1.0	%		90.1	90.5	85.0	99.3	82.2
4-Terphenyl-d14	1718-51-0	1.0	%		81.5	81.6	79.1	90.5	84.8
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	2	%		114	114	98.5	114	112
Toluene-D8	2037-26-5	2	%		116	116	98.8	114	109
4-Bromofluorobenzene	460-00-4	2	%		109	109	92.6	104	102

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Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	RO1-20-01-22	Trip Spike	Trip blank	BUR-MW108	----
			Sampling date / time	20-Jan-2022 00:00	13-Jan-2022 00:00	13-Jan-2022 00:00	20-Jan-2022 00:00	---
Compound	CAS Number	LOR	Unit	ES2201979-012	ES2201979-013	ES2201979-014	ES2201979-015	----
				Result	Result	Result	Result	---
EA015: Total Dissolved Solids dried at 180 ± 5 °C								
Total Dissolved Solids @180°C	----	10	mg/L	----	----	----	4910	----
ED037P: Alkalinity by PC Titrator								
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	----	----	----	<1	----
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	----	----	----	<1	----
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	----	----	----	695	----
Total Alkalinity as CaCO3	----	1	mg/L	----	----	----	695	----
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA								
Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	----	----	----	518	----
ED045G: Chloride by Discrete Analyser								
Chloride	16887-00-6	1	mg/L	----	----	----	2310	----
ED093F: Dissolved Major Cations								
Calcium	7440-70-2	1	mg/L	----	----	----	87	----
Magnesium	7439-95-4	1	mg/L	----	----	----	125	----
Sodium	7440-23-5	1	mg/L	----	----	----	1510	----
Potassium	7440-09-7	1	mg/L	----	----	----	27	----
EG020F: Dissolved Metals by ICP-MS								
Arsenic	7440-38-2	0.001	mg/L	<0.001	----	----	0.013	----
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	----	----	0.0004	----
Chromium	7440-47-3	0.001	mg/L	<0.001	----	----	<0.001	----
Copper	7440-50-8	0.001	mg/L	<0.001	----	----	0.004	----
Lead	7439-92-1	0.001	mg/L	<0.001	----	----	<0.001	----
Nickel	7440-02-0	0.001	mg/L	<0.001	----	----	0.028	----
Zinc	7440-66-6	0.005	mg/L	<0.005	----	----	0.015	----
Iron	7439-89-6	0.05	mg/L	<0.05	----	----	0.06	----
EG035F: Dissolved Mercury by FIMS								
Mercury	7439-97-6	0.0001	mg/L	<0.0001	----	----	<0.0001	----
EK055G: Ammonia as N by Discrete Analyser								
Ammonia as N	7664-41-7	0.01	mg/L	<0.01	----	----	0.41	----
EK057G: Nitrite as N by Discrete Analyser								
Nitrite as N	14797-65-0	0.01	mg/L	----	----	----	<0.01	----
EK058G: Nitrate as N by Discrete Analyser								
Nitrate as N	14797-55-8	0.01	mg/L	----	----	----	0.02	----
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser								

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Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	RO1-20-01-22	Trip Spike	Trip blank	BUR-MW108	----
			Sampling date / time	20-Jan-2022 00:00	13-Jan-2022 00:00	13-Jan-2022 00:00	20-Jan-2022 00:00	---
Compound	CAS Number	LOR	Unit	ES2201979-012	ES2201979-013	ES2201979-014	ES2201979-015	----
				Result	Result	Result	Result	---
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser - Continued								
Nitrite + Nitrate as N	----	0.01	mg/L	<0.01	----	----	0.02	----
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser								
Total Kjeldahl Nitrogen as N	----	0.1	mg/L	<0.1	----	----	2.6	----
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser								
^ Total Nitrogen as N	----	0.1	mg/L	<0.1	----	----	2.6	----
EK067G: Total Phosphorus as P by Discrete Analyser								
Total Phosphorus as P	----	0.01	mg/L	<0.01	----	----	3.26	----
EN055: Ionic Balance								
ø Total Anions	----	0.01	meq/L	----	----	----	89.8	----
ø Total Cations	----	0.01	meq/L	----	----	----	81.0	----
ø Ionic Balance	----	0.01	%	----	----	----	5.17	----
EP074A: Monocyclic Aromatic Hydrocarbons								
Styrene	100-42-5	5	µg/L	<5	----	----	<5	----
Isopropylbenzene	98-82-8	5	µg/L	<5	----	----	<5	----
n-Propylbenzene	103-65-1	5	µg/L	<5	----	----	<5	----
1.3.5-Trimethylbenzene	108-67-8	5	µg/L	<5	----	----	<5	----
sec-Butylbenzene	135-98-8	5	µg/L	<5	----	----	<5	----
1.2.4-Trimethylbenzene	95-63-6	5	µg/L	<5	----	----	<5	----
tert-Butylbenzene	98-06-6	5	µg/L	<5	----	----	<5	----
p-Isopropyltoluene	99-87-6	5	µg/L	<5	----	----	<5	----
n-Butylbenzene	104-51-8	5	µg/L	<5	----	----	<5	----
EP074B: Oxygenated Compounds								
Vinyl Acetate	108-05-4	50	µg/L	<50	----	----	<50	----
2-Butanone (MEK)	78-93-3	50	µg/L	<50	----	----	<50	----
4-Methyl-2-pentanone (MIBK)	108-10-1	50	µg/L	<50	----	----	<50	----
2-Hexanone (MBK)	591-78-6	50	µg/L	<50	----	----	<50	----
EP074C: Sulfonated Compounds								
Carbon disulfide	75-15-0	5	µg/L	<5	----	----	<5	----
EP074D: Fumigants								
2.2-Dichloropropane	594-20-7	5	µg/L	<5	----	----	<5	----
1.2-Dichloropropane	78-87-5	5	µg/L	<5	----	----	<5	----
cis-1.3-Dichloropropylene	10061-01-5	5	µg/L	<5	----	----	<5	----
trans-1.3-Dichloropropylene	10061-02-6	5	µg/L	<5	----	----	<5	----
1.2-Dibromoethane (EDB)	106-93-4	5	µg/L	<5	----	----	<5	----

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Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	RO1-20-01-22	Trip Spike	Trip blank	BUR-MW108	----
			Sampling date / time	20-Jan-2022 00:00	13-Jan-2022 00:00	13-Jan-2022 00:00	20-Jan-2022 00:00	---
Compound	CAS Number	LOR	Unit	ES2201979-012	ES2201979-013	ES2201979-014	ES2201979-015	----
				Result	Result	Result	Result	---
EP074E: Halogenated Aliphatic Compounds								
Dichlorodifluoromethane	75-71-8	50	µg/L	<50	----	----	<50	----
Chloromethane	74-87-3	50	µg/L	<50	----	----	<50	----
Vinyl chloride	75-01-4	50	µg/L	<50	----	----	<50	----
Bromomethane	74-83-9	50	µg/L	<50	----	----	<50	----
Chloroethane	75-00-3	50	µg/L	<50	----	----	<50	----
Trichlorofluoromethane	75-69-4	50	µg/L	<50	----	----	<50	----
1.1-Dichloroethene	75-35-4	5	µg/L	<5	----	----	<5	----
Iodomethane	74-88-4	5	µg/L	<5	----	----	<5	----
trans-1.2-Dichloroethene	156-60-5	5	µg/L	<5	----	----	<5	----
1.1-Dichloroethane	75-34-3	5	µg/L	<5	----	----	<5	----
cis-1.2-Dichloroethene	156-59-2	5	µg/L	<5	----	----	<5	----
1.1.1-Trichloroethane	71-55-6	5	µg/L	<5	----	----	<5	----
1.1-Dichloropropylene	563-58-6	5	µg/L	<5	----	----	<5	----
Carbon Tetrachloride	56-23-5	5	µg/L	<5	----	----	<5	----
1.2-Dichloroethane	107-06-2	5	µg/L	<5	----	----	<5	----
Trichloroethene	79-01-6	5	µg/L	<5	----	----	<5	----
Dibromomethane	74-95-3	5	µg/L	<5	----	----	<5	----
1.1.2-Trichloroethane	79-00-5	5	µg/L	<5	----	----	<5	----
1.3-Dichloropropane	142-28-9	5	µg/L	<5	----	----	<5	----
Tetrachloroethene	127-18-4	5	µg/L	<5	----	----	<5	----
1.1.1.2-Tetrachloroethane	630-20-6	5	µg/L	<5	----	----	<5	----
trans-1.4-Dichloro-2-butene	110-57-6	5	µg/L	<5	----	----	<5	----
cis-1.4-Dichloro-2-butene	1476-11-5	5	µg/L	<5	----	----	<5	----
1.1.2.2-Tetrachloroethane	79-34-5	5	µg/L	<5	----	----	<5	----
1.2.3-Trichloropropane	96-18-4	5	µg/L	<5	----	----	<5	----
Pentachloroethane	76-01-7	5	µg/L	<5	----	----	<5	----
1.2-Dibromo-3-chloropropane	96-12-8	5	µg/L	<5	----	----	<5	----
Hexachlorobutadiene	87-68-3	5	µg/L	<5	----	----	<5	----
EP074F: Halogenated Aromatic Compounds								
Chlorobenzene	108-90-7	5	µg/L	<5	----	----	<5	----
Bromobenzene	108-86-1	5	µg/L	<5	----	----	<5	----
2-Chlorotoluene	95-49-8	5	µg/L	<5	----	----	<5	----
4-Chlorotoluene	106-43-4	5	µg/L	<5	----	----	<5	----
1.3-Dichlorobenzene	541-73-1	5	µg/L	<5	----	----	<5	----
1.4-Dichlorobenzene	106-46-7	5	µg/L	<5	----	----	<5	----

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Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	RO1-20-01-22	Trip Spike	Trip blank	BUR-MW108	----
				Sampling date / time	20-Jan-2022 00:00	13-Jan-2022 00:00	13-Jan-2022 00:00	20-Jan-2022 00:00	---
Compound	CAS Number	LOR	Unit		ES2201979-012	ES2201979-013	ES2201979-014	ES2201979-015	----
					Result	Result	Result	Result	---
EP074F: Halogenated Aromatic Compounds - Continued									
1.2-Dichlorobenzene	95-50-1	5	µg/L		<5	----	----	<5	----
1.2.4-Trichlorobenzene	120-82-1	5	µg/L		<5	----	----	<5	----
1.2.3-Trichlorobenzene	87-61-6	5	µg/L		<5	----	----	<5	----
EP074G: Trihalomethanes									
Chloroform	67-66-3	5	µg/L		<5	----	----	<5	----
Bromodichloromethane	75-27-4	5	µg/L		<5	----	----	<5	----
Dibromochloromethane	124-48-1	5	µg/L		<5	----	----	<5	----
Bromoform	75-25-2	5	µg/L		<5	----	----	<5	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	1.0	µg/L		<1.0	----	----	<1.0	----
Acenaphthylene	208-96-8	1.0	µg/L		<1.0	----	----	<1.0	----
Acenaphthene	83-32-9	1.0	µg/L		<1.0	----	----	<1.0	----
Fluorene	86-73-7	1.0	µg/L		<1.0	----	----	<1.0	----
Phenanthrene	85-01-8	1.0	µg/L		<1.0	----	----	<1.0	----
Anthracene	120-12-7	1.0	µg/L		<1.0	----	----	<1.0	----
Fluoranthene	206-44-0	1.0	µg/L		<1.0	----	----	<1.0	----
Pyrene	129-00-0	1.0	µg/L		<1.0	----	----	<1.0	----
Benz(a)anthracene	56-55-3	1.0	µg/L		<1.0	----	----	<1.0	----
Chrysene	218-01-9	1.0	µg/L		<1.0	----	----	<1.0	----
Benzo(b+j)fluoranthene	205-99-2 205-82-3	1.0	µg/L		<1.0	----	----	<1.0	----
Benzo(k)fluoranthene	207-08-9	1.0	µg/L		<1.0	----	----	<1.0	----
Benzo(a)pyrene	50-32-8	0.5	µg/L		<0.5	----	----	<0.5	----
Indeno(1.2.3.cd)pyrene	193-39-5	1.0	µg/L		<1.0	----	----	<1.0	----
Dibenz(a.h)anthracene	53-70-3	1.0	µg/L		<1.0	----	----	<1.0	----
Benzo(g.h.i)perylene	191-24-2	1.0	µg/L		<1.0	----	----	<1.0	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	µg/L		<0.5	----	----	<0.5	----
^ Benzo(a)pyrene TEQ (zero)	----	0.5	µg/L		<0.5	----	----	<0.5	----
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	20	µg/L		<20	----	<20	<20	----
C10 - C14 Fraction	----	50	µg/L		<50	----	----	<50	----
C15 - C28 Fraction	----	100	µg/L		<100	----	----	<100	----
C29 - C36 Fraction	----	50	µg/L		<50	----	----	<50	----
^ C10 - C36 Fraction (sum)	----	50	µg/L		<50	----	----	<50	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									

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Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	RO1-20-01-22	Trip Spike	Trip blank	BUR-MW108	----
			Sampling date / time	20-Jan-2022 00:00	13-Jan-2022 00:00	13-Jan-2022 00:00	20-Jan-2022 00:00	---
Compound	CAS Number	LOR	Unit	ES2201979-012	ES2201979-013	ES2201979-014	ES2201979-015	----
				Result	Result	Result	Result	---
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued								
C6 - C10 Fraction	C6_C10	20	µg/L	<20	----	<20	<20	----
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	µg/L	<20	----	<20	<20	----
>C10 - C16 Fraction	----	100	µg/L	<100	----	----	<100	----
>C16 - C34 Fraction	----	100	µg/L	<100	----	----	<100	----
>C34 - C40 Fraction	----	100	µg/L	<100	----	----	<100	----
^ >C10 - C40 Fraction (sum)	----	100	µg/L	<100	----	----	<100	----
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	100	µg/L	<100	----	----	<100	----
EP080: BTEXN								
Benzene	71-43-2	1	µg/L	<1	<1	<1	<1	----
Toluene	108-88-3	2	µg/L	<2	<2	<2	<2	----
Ethylbenzene	100-41-4	2	µg/L	<2	<2	<2	<2	----
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	<2	<2	<2	----
ortho-Xylene	95-47-6	2	µg/L	<2	<2	<2	<2	----
^ Total Xylenes	----	2	µg/L	<2	<2	<2	<2	----
^ Sum of BTEX	----	1	µg/L	<1	<1	<1	<1	----
Naphthalene	91-20-3	5	µg/L	<5	<5	<5	<5	----
EP074S: VOC Surrogates								
1.2-Dichloroethane-D4	17060-07-0	5	%	**96.8**	----	----	**100**	----
Toluene-D8	2037-26-5	5	%	**103**	----	----	**107**	----
4-Bromofluorobenzene	460-00-4	5	%	**87.8**	----	----	**98.7**	----
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	1.0	%	**18.8**	----	----	**19.6**	----
2-Chlorophenol-D4	93951-73-6	1.0	%	**51.6**	----	----	**51.4**	----
2.4.6-Tribromophenol	118-79-6	1.0	%	**51.6**	----	----	**54.8**	----
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	1.0	%	**61.2**	----	----	**63.9**	----
Anthracene-d10	1719-06-8	1.0	%	**87.2**	----	----	**89.8**	----
4-Terphenyl-d14	1718-51-0	1.0	%	**91.4**	----	----	**84.5**	----
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	2	%	**109**	**111**	**105**	**111**	----
Toluene-D8	2037-26-5	2	%	**107**	**111**	**110**	**116**	----
4-Bromofluorobenzene	460-00-4	2	%	**101**	**105**	**105**	**110**	----

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Surrogate Control Limits

Sub-Matrix: **WATER**

Compound	CAS Number	Recovery Limits (%) Low	High
EP074S: VOC Surrogates			
1.2-Dichloroethane-D4	17060-07-0	78	133
Toluene-D8	2037-26-5	79	129
4-Bromofluorobenzene	460-00-4	81	124
EP075(SIM)S: Phenolic Compound Surrogates			
Phenol-d6	13127-88-3	10	44
2-Chlorophenol-D4	93951-73-6	14	94
2.4.6-Tribromophenol	118-79-6	17	125
EP075(SIM)T: PAH Surrogates			
2-Fluorobiphenyl	321-60-8	20	104
Anthracene-d10	1719-06-8	27	113
4-Terphenyl-d14	1718-51-0	32	112
EP080S: TPH(V)/BTEX Surrogates			
1.2-Dichloroethane-D4	17060-07-0	71	137
Toluene-D8	2037-26-5	79	131
4-Bromofluorobenzene	460-00-4	70	128

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ALS Environmental

QUALITY CONTROL REPORT

Work Order	: **ES2201979**	Page	: 1 of 13
Client	: **ENVIRONMENTAL RESOURCES MANAGEMENT (ERM)**	Laboratory	: Environmental Division Sydney
Contact	: NICHOLAS GRBICH	Contact	: Customer Services ES
Address	: LEVEL 15 309 KENT STREET SYDNEY NSW AUSTRALIA 2000	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: ----	Telephone	: +61-2-8784 8555
Project	: 0628507	Date Samples Received	: 20-Jan-2022
Order number	: ----	Date Analysis Commenced	: 22-Jan-2022
C-O-C number	: ----	Issue Date	: 31-Jan-2022
Sampler	: TAJ MONDON		
Site	: ----		
Quote number	: EN/114		
No. of samples received	: 16		
No. of samples analysed	: 14		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Ankit Joshi	Inorganic Chemist	Sydney Inorganics, Smithfield, NSW
Edwandy Fadjar	Organic Coordinator	Sydney Organics, Smithfield, NSW
Ivan Taylor	Analyst	Sydney Inorganics, Smithfield, NSW

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General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis. Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Key : Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot
CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
RPD = Relative Percentage Difference
# = Indicates failed QC

Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EA015: Total Dissolved Solids dried at 180 ± 5 °C (QC Lot: 4136387)									
ES2201867-002	Anonymous	EA015H: Total Dissolved Solids @180°C	----	10	mg/L	4010	3920	2.3	0% - 20%
EW2200210-001	Anonymous	EA015H: Total Dissolved Solids @180°C	----	10	mg/L	458	486	5.8	0% - 20%
EA015: Total Dissolved Solids dried at 180 ± 5 °C (QC Lot: 4136430)									
ES2201969-001	Anonymous	EA015H: Total Dissolved Solids @180°C	----	10	mg/L	104	138	28.9	0% - 50%
ES2202013-003	Anonymous	EA015H: Total Dissolved Solids @180°C	----	10	mg/L	509	512	0.7	0% - 20%
ED037P: Alkalinity by PC Titrator (QC Lot: 4137312)									
ES2201979-001	S51	ED037-P: Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1	<1	0.0	No Limit
		ED037-P: Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	<1	<1	0.0	No Limit
		ED037-P: Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	700	714	2.0	0% - 20%
		ED037-P: Total Alkalinity as CaCO3	----	1	mg/L	700	714	2.0	0% - 20%
ES2202025-001	Anonymous	ED037-P: Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1	<1	0.0	No Limit
		ED037-P: Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	<1	<1	0.0	No Limit
		ED037-P: Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	410	416	1.5	0% - 20%
		ED037-P: Total Alkalinity as CaCO3	----	1	mg/L	410	416	1.5	0% - 20%
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA (QC Lot: 4133588)									
ES2201979-006	S40_d	ED041G: Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	680	709	4.2	0% - 20%
ES2201864-002	Anonymous	ED041G: Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	1300	1270	2.7	0% - 20%
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA (QC Lot: 4133619)									
ES2202069-002	Anonymous	ED041G: Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	522	550	5.2	0% - 20%
ES2201940-001	Anonymous	ED041G: Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	299	299	0.0	0% - 20%
ED045G: Chloride by Discrete Analyser (QC Lot: 4133589)									
ES2201979-006	S40_d	ED045G: Chloride	16887-00-6	1	mg/L	8110	8040	1.0	0% - 20%
ES2201864-002	Anonymous	ED045G: Chloride	16887-00-6	1	mg/L	1820	1830	0.5	0% - 20%

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Sub-Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
ED045G: Chloride by Discrete Analyser (QC Lot: 4133618)									
ES2201976-001	Anonymous	ED045G: Chloride	16887-00-6	1	mg/L	44	44	0.0	0% - 20%
ES2201940-001	Anonymous	ED045G: Chloride	16887-00-6	1	mg/L	288	289	0.0	0% - 20%
ED093F: Dissolved Major Cations (QC Lot: 4138240)									
ES2201979-001	S51	ED093F: Calcium	7440-70-2	1	mg/L	150	152	1.4	0% - 20%
		ED093F: Magnesium	7439-95-4	1	mg/L	49	51	2.7	0% - 20%
		ED093F: Sodium	7440-23-5	1	mg/L	67	68	1.7	0% - 20%
		ED093F: Potassium	7440-09-7	1	mg/L	23	23	0.0	0% - 20%
ES2202046-001	Anonymous	ED093F: Calcium	7440-70-2	1	mg/L	82	77	5.6	0% - 20%
		ED093F: Magnesium	7439-95-4	1	mg/L	102	101	1.7	0% - 20%
		ED093F: Sodium	7440-23-5	1	mg/L	615	595	3.3	0% - 20%
		ED093F: Potassium	7440-09-7	1	mg/L	32	31	3.9	0% - 20%
EG020F: Dissolved Metals by ICP-MS (QC Lot: 4138238)									
ES2201979-001	S51	EG020A-F: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
		EG020A-F: Arsenic	7440-38-2	0.001	mg/L	0.065	0.066	2.3	0% - 20%
		EG020A-F: Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-F: Copper	7440-50-8	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-F: Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-F: Nickel	7440-02-0	0.001	mg/L	<0.001	0.001	0.0	No Limit
		EG020A-F: Zinc	7440-66-6	0.005	mg/L	<0.005	<0.005	0.0	No Limit
		EG020A-F: Iron	7439-89-6	0.05	mg/L	19.1	19.3	1.3	0% - 20%
ES2202046-001	Anonymous	EG020A-F: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
		EG020A-F: Arsenic	7440-38-2	0.001	mg/L	0.002	0.002	0.0	No Limit
		EG020A-F: Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-F: Copper	7440-50-8	0.001	mg/L	<0.001	0.001	0.0	No Limit
		EG020A-F: Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-F: Nickel	7440-02-0	0.001	mg/L	0.003	0.003	0.0	No Limit
		EG020A-F: Zinc	7440-66-6	0.005	mg/L	<0.005	<0.005	0.0	No Limit
		EG020A-F: Iron	7439-89-6	0.05	mg/L	<0.05	<0.05	0.0	No Limit
EG035F: Dissolved Mercury by FIMS (QC Lot: 4138239)									
ES2201979-004	S06	EG035F: Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
ES2201979-011	RO1-220119	EG035F: Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
EK055G: Ammonia as N by Discrete Analyser (QC Lot: 4136962)									
ES2201979-001	S51	EK055G: Ammonia as N	7664-41-7	0.01	mg/L	4.75	4.70	1.1	0% - 20%
EK057G: Nitrite as N by Discrete Analyser (QC Lot: 4133586)									
ES2201979-006	S40_d	EK057G: Nitrite as N	14797-65-0	0.01	mg/L	<0.10	<0.10	0.0	No Limit
ES2201864-002	Anonymous	EK057G: Nitrite as N	14797-65-0	0.01	mg/L	0.30	0.30	0.0	0% - 20%
EK057G: Nitrite as N by Discrete Analyser (QC Lot: 4133617)									
ES2202069-002	Anonymous	EK057G: Nitrite as N	14797-65-0	0.01	mg/L	<0.01	<0.01	0.0	No Limit
ES2201940-001	Anonymous	EK057G: Nitrite as N	14797-65-0	0.01	mg/L	<0.01	<0.01	0.0	No Limit

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Sub-Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QC Lot: 4136963)									
ES2201979-001	S51	EK059G: Nitrite + Nitrate as N	----	0.01	mg/L	<0.10	0.19	62.5	No Limit
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser (QC Lot: 4136959)									
ES2201979-001	S51	EK061G: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	6.8	6.6	2.8	0% - 50%
ES2201979-011	RO1-220119	EK061G: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	<0.1	<0.1	0.0	No Limit
EK067G: Total Phosphorus as P by Discrete Analyser (QC Lot: 4136958)									
ES2201979-001	S51	EK067G: Total Phosphorus as P	----	0.01	mg/L	0.68	0.69	1.6	0% - 50%
ES2201979-011	RO1-220119	EK067G: Total Phosphorus as P	----	0.01	mg/L	<0.01	<0.01	0.0	No Limit
EP074A: Monocyclic Aromatic Hydrocarbons (QC Lot: 4137794)									
ES2201979-001	S51	EP074: Styrene	100-42-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: Isopropylbenzene	98-82-8	5	µg/L	<5	<5	0.0	No Limit
		EP074: n-Propylbenzene	103-65-1	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.3.5-Trimethylbenzene	108-67-8	5	µg/L	<5	<5	0.0	No Limit
		EP074: sec-Butylbenzene	135-98-8	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2.4-Trimethylbenzene	95-63-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: tert-Butylbenzene	98-06-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: p-Isopropyltoluene	99-87-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: n-Butylbenzene	104-51-8	5	µg/L	<5	<5	0.0	No Limit
ES2201979-005	S40_s	EP074: Styrene	100-42-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: Isopropylbenzene	98-82-8	5	µg/L	<5	<5	0.0	No Limit
		EP074: n-Propylbenzene	103-65-1	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.3.5-Trimethylbenzene	108-67-8	5	µg/L	<5	<5	0.0	No Limit
		EP074: sec-Butylbenzene	135-98-8	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2.4-Trimethylbenzene	95-63-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: tert-Butylbenzene	98-06-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: p-Isopropyltoluene	99-87-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: n-Butylbenzene	104-51-8	5	µg/L	<5	<5	0.0	No Limit
EP074B: Oxygenated Compounds (QC Lot: 4137794)									
ES2201979-001	S51	EP074: Vinyl Acetate	108-05-4	50	µg/L	<50	<50	0.0	No Limit
		EP074: 2-Butanone (MEK)	78-93-3	50	µg/L	<50	<50	0.0	No Limit
		EP074: 4-Methyl-2-pentanone (MIBK)	108-10-1	50	µg/L	<50	<50	0.0	No Limit
		EP074: 2-Hexanone (MBK)	591-78-6	50	µg/L	<50	<50	0.0	No Limit
ES2201979-005	S40_s	EP074: Vinyl Acetate	108-05-4	50	µg/L	<50	<50	0.0	No Limit
		EP074: 2-Butanone (MEK)	78-93-3	50	µg/L	<50	<50	0.0	No Limit
		EP074: 4-Methyl-2-pentanone (MIBK)	108-10-1	50	µg/L	<50	<50	0.0	No Limit
		EP074: 2-Hexanone (MBK)	591-78-6	50	µg/L	<50	<50	0.0	No Limit
EP074C: Sulfonated Compounds (QC Lot: 4137794)									
ES2201979-001	S51	EP074: Carbon disulfide	75-15-0	5	µg/L	<5	<5	0.0	No Limit
ES2201979-005	S40_s	EP074: Carbon disulfide	75-15-0	5	µg/L	<5	<5	0.0	No Limit
EP074D: Fumigants (QC Lot: 4137794)									

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Sub-Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP074D: Fumigants (QC Lot: 4137794) - continued									
ES2201979-001	S51	EP074: 2.2-Dichloropropane	594-20-7	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2-Dichloropropane	78-87-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: cis-1.3-Dichloropropylene	10061-01-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: trans-1.3-Dichloropropylene	10061-02-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2-Dibromoethane (EDB)	106-93-4	5	µg/L	<5	<5	0.0	No Limit
ES2201979-005	S40_s	EP074: 2.2-Dichloropropane	594-20-7	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2-Dichloropropane	78-87-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: cis-1.3-Dichloropropylene	10061-01-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: trans-1.3-Dichloropropylene	10061-02-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2-Dibromoethane (EDB)	106-93-4	5	µg/L	<5	<5	0.0	No Limit
EP074E: Halogenated Aliphatic Compounds (QC Lot: 4137794)									
ES2201979-001	S51	EP074: 1.1-Dichloroethene	75-35-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: Iodomethane	74-88-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: trans-1.2-Dichloroethene	156-60-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1-Dichloroethane	75-34-3	5	µg/L	<5	<5	0.0	No Limit
		EP074: cis-1.2-Dichloroethene	156-59-2	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1.1-Trichloroethane	71-55-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1-Dichloropropylene	563-58-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: Carbon Tetrachloride	56-23-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2-Dichloroethane	107-06-2	5	µg/L	<5	<5	0.0	No Limit
		EP074: Trichloroethene	79-01-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: Dibromomethane	74-95-3	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1.2-Trichloroethane	79-00-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.3-Dichloropropane	142-28-9	5	µg/L	<5	<5	0.0	No Limit
		EP074: Tetrachloroethene	127-18-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1.1.2-Tetrachloroethane	630-20-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: trans-1.4-Dichloro-2-butene	110-57-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: cis-1.4-Dichloro-2-butene	1476-11-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1.2.2-Tetrachloroethane	79-34-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2.3-Trichloropropane	96-18-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: Pentachloroethane	76-01-7	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2-Dibromo-3-chloropropane	96-12-8	5	µg/L	<5	<5	0.0	No Limit
		EP074: Hexachlorobutadiene	87-68-3	5	µg/L	<5	<5	0.0	No Limit
		EP074: Dichlorodifluoromethane	75-71-8	50	µg/L	<50	<50	0.0	No Limit
		EP074: Chloromethane	74-87-3	50	µg/L	<50	<50	0.0	No Limit
		EP074: Vinyl chloride	75-01-4	50	µg/L	<50	<50	0.0	No Limit
		EP074: Bromomethane	74-83-9	50	µg/L	<50	<50	0.0	No Limit
		EP074: Chloroethane	75-00-3	50	µg/L	<50	<50	0.0	No Limit
		EP074: Trichlorofluoromethane	75-69-4	50	µg/L	<50	<50	0.0	No Limit
ES2201979-005	S40_s	EP074: 1.1-Dichloroethene	75-35-4	5	µg/L	<5	<5	0.0	No Limit

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Sub-Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP074E: Halogenated Aliphatic Compounds (QC Lot: 4137794) - continued									
ES2201979-005	S40_s	EP074: Iodomethane	74-88-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: trans-1.2-Dichloroethene	156-60-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1-Dichloroethane	75-34-3	5	µg/L	<5	<5	0.0	No Limit
		EP074: cis-1.2-Dichloroethene	156-59-2	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1.1-Trichloroethane	71-55-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1-Dichloropropylene	563-58-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: Carbon Tetrachloride	56-23-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2-Dichloroethane	107-06-2	5	µg/L	<5	<5	0.0	No Limit
		EP074: Trichloroethene	79-01-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: Dibromomethane	74-95-3	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1.2-Trichloroethane	79-00-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.3-Dichloropropane	142-28-9	5	µg/L	<5	<5	0.0	No Limit
		EP074: Tetrachloroethene	127-18-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1.1.2-Tetrachloroethane	630-20-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: trans-1.4-Dichloro-2-butene	110-57-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: cis-1.4-Dichloro-2-butene	1476-11-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1.2.2-Tetrachloroethane	79-34-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2.3-Trichloropropane	96-18-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: Pentachloroethane	76-01-7	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2-Dibromo-3-chloropropane	96-12-8	5	µg/L	<5	<5	0.0	No Limit
		EP074: Hexachlorobutadiene	87-68-3	5	µg/L	<5	<5	0.0	No Limit
		EP074: Dichlorodifluoromethane	75-71-8	50	µg/L	<50	<50	0.0	No Limit
		EP074: Chloromethane	74-87-3	50	µg/L	<50	<50	0.0	No Limit
		EP074: Vinyl chloride	75-01-4	50	µg/L	<50	<50	0.0	No Limit
		EP074: Bromomethane	74-83-9	50	µg/L	<50	<50	0.0	No Limit
		EP074: Chloroethane	75-00-3	50	µg/L	<50	<50	0.0	No Limit
		EP074: Trichlorofluoromethane	75-69-4	50	µg/L	<50	<50	0.0	No Limit
EP074F: Halogenated Aromatic Compounds (QC Lot: 4137794)									
ES2201979-001	S51	EP074: Chlorobenzene	108-90-7	5	µg/L	<5	<5	0.0	No Limit
		EP074: Bromobenzene	108-86-1	5	µg/L	<5	<5	0.0	No Limit
		EP074: 2-Chlorotoluene	95-49-8	5	µg/L	<5	<5	0.0	No Limit
		EP074: 4-Chlorotoluene	106-43-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.3-Dichlorobenzene	541-73-1	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.4-Dichlorobenzene	106-46-7	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2-Dichlorobenzene	95-50-1	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2.4-Trichlorobenzene	120-82-1	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2.3-Trichlorobenzene	87-61-6	5	µg/L	<5	<5	0.0	No Limit
ES2201979-005	S40_s	EP074: Chlorobenzene	108-90-7	5	µg/L	<5	<5	0.0	No Limit
		EP074: Bromobenzene	108-86-1	5	µg/L	<5	<5	0.0	No Limit
		EP074: 2-Chlorotoluene	95-49-8	5	µg/L	<5	<5	0.0	No Limit

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Sub-Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP074F: Halogenated Aromatic Compounds (QC Lot: 4137794) - continued									
ES2201979-005	S40_s	EP074: 4-Chlorotoluene	106-43-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.3-Dichlorobenzene	541-73-1	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.4-Dichlorobenzene	106-46-7	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2-Dichlorobenzene	95-50-1	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2.4-Trichlorobenzene	120-82-1	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2.3-Trichlorobenzene	87-61-6	5	µg/L	<5	<5	0.0	No Limit
EP074G: Trihalomethanes (QC Lot: 4137794)									
ES2201979-001	S51	EP074: Chloroform	67-66-3	5	µg/L	<5	<5	0.0	No Limit
		EP074: Bromodichloromethane	75-27-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: Dibromochloromethane	124-48-1	5	µg/L	<5	<5	0.0	No Limit
		EP074: Bromoform	75-25-2	5	µg/L	<5	<5	0.0	No Limit
ES2201979-005	S40_s	EP074: Chloroform	67-66-3	5	µg/L	<5	<5	0.0	No Limit
		EP074: Bromodichloromethane	75-27-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: Dibromochloromethane	124-48-1	5	µg/L	<5	<5	0.0	No Limit
		EP074: Bromoform	75-25-2	5	µg/L	<5	<5	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4137793)									
ES2201979-001	S51	EP080: C6 - C9 Fraction	----	20	µg/L	<20	<20	0.0	No Limit
ES2201979-005	S40_s	EP080: C6 - C9 Fraction	----	20	µg/L	<20	<20	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4137793)									
ES2201979-001	S51	EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	<20	0.0	No Limit
ES2201979-005	S40_s	EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	<20	0.0	No Limit
EP080: BTEXN (QC Lot: 4137793)									
ES2201979-001	S51	EP080: Benzene	71-43-2	1	µg/L	<1	<1	0.0	No Limit
		EP080: Toluene	108-88-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	2	µg/L	<2	<2	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	2	µg/L	<2	<2	0.0	No Limit
		EP080: Naphthalene	91-20-3	5	µg/L	<5	<5	0.0	No Limit
ES2201979-005	S40_s	EP080: Benzene	71-43-2	1	µg/L	<1	<1	0.0	No Limit
		EP080: Toluene	108-88-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	2	µg/L	<2	<2	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	2	µg/L	<2	<2	0.0	No Limit
		EP080: Naphthalene	91-20-3	5	µg/L	<5	<5	0.0	No Limit

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Method Blank (MB) and Laboratory Control Sample (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Sample (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

Sub-Matrix: **WATER**

				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EA015: Total Dissolved Solids dried at 180 ± 5 °C (QCLot: 4136387)								
EA015H: Total Dissolved Solids @180°C	----	10	mg/L	<10	2000 mg/L	101	87.0	109
				<10	293 mg/L	109	75.2	126
				<10	2835 mg/L	105	83.0	124
EA015: Total Dissolved Solids dried at 180 ± 5 °C (QCLot: 4136430)								
EA015H: Total Dissolved Solids @180°C	----	10	mg/L	<10	2000 mg/L	104	87.0	109
				<10	293 mg/L	116	75.2	126
				<10	2835 mg/L	106	83.0	124
ED037P: Alkalinity by PC Titrator (QCLot: 4137312)								
ED037-P: Total Alkalinity as CaCO3	----	----	mg/L	----	200 mg/L	103	81.0	111
				----	50 mg/L	120	80.0	120
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA (QCLot: 4133588)								
ED041G: Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	<1	25 mg/L	99.0	82.0	122
				<1	500 mg/L	94.9	82.0	122
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA (QCLot: 4133619)								
ED041G: Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	<1	25 mg/L	99.4	82.0	122
				<1	500 mg/L	88.0	82.0	122
ED045G: Chloride by Discrete Analyser (QCLot: 4133589)								
ED045G: Chloride	16887-00-6	1	mg/L	<1	50 mg/L	100	80.9	127
				<1	1000 mg/L	105	80.9	127
ED045G: Chloride by Discrete Analyser (QCLot: 4133618)								
ED045G: Chloride	16887-00-6	1	mg/L	<1	50 mg/L	100	80.9	127
				<1	1000 mg/L	106	80.9	127
ED093F: Dissolved Major Cations (QCLot: 4138240)								
ED093F: Calcium	7440-70-2	1	mg/L	<1	50 mg/L	93.8	80.0	114
ED093F: Magnesium	7439-95-4	1	mg/L	<1	50 mg/L	102	90.0	116
ED093F: Sodium	7440-23-5	1	mg/L	<1	50 mg/L	97.4	82.0	120
ED093F: Potassium	7440-09-7	1	mg/L	<1	50 mg/L	100	85.0	113
EG020F: Dissolved Metals by ICP-MS (QCLot: 4138238)								
EG020A-F: Arsenic	7440-38-2	0.001	mg/L	<0.001	0.1 mg/L	104	85.0	114
EG020A-F: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	0.1 mg/L	106	84.0	110
EG020A-F: Chromium	7440-47-3	0.001	mg/L	<0.001	0.1 mg/L	102	85.0	111
EG020A-F: Copper	7440-50-8	0.001	mg/L	<0.001	0.1 mg/L	97.0	81.0	111
EG020A-F: Lead	7439-92-1	0.001	mg/L	<0.001	0.1 mg/L	98.0	83.0	111
EG020A-F: Nickel	7440-02-0	0.001	mg/L	<0.001	0.1 mg/L	105	82.0	112

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Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
				Result	Spike Concentration	Spike Recovery (%)	Acceptable Limits (%)	
						LCS	Low	High
EG020F: Dissolved Metals by ICP-MS (QCLot: 4138238) - continued								
EG020A-F: Zinc	7440-66-6	0.005	mg/L	<0.005	0.1 mg/L	104	81.0	117
EG020A-F: Iron	7439-89-6	0.05	mg/L	<0.05	0.5 mg/L	100	82.0	112
EG035F: Dissolved Mercury by FIMS (QCLot: 4138239)								
EG035F: Mercury	7439-97-6	0.0001	mg/L	<0.0001	0.01 mg/L	94.4	83.0	105
EK055G: Ammonia as N by Discrete Analyser (QCLot: 4136962)								
EK055G: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	1 mg/L	103	90.0	114
EK057G: Nitrite as N by Discrete Analyser (QCLot: 4133586)								
EK057G: Nitrite as N	14797-65-0	0.01	mg/L	<0.01	0.5 mg/L	106	82.0	114
EK057G: Nitrite as N by Discrete Analyser (QCLot: 4133617)								
EK057G: Nitrite as N	14797-65-0	0.01	mg/L	<0.01	0.5 mg/L	105	82.0	114
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QCLot: 4136963)								
EK059G: Nitrite + Nitrate as N	----	0.01	mg/L	<0.01	0.5 mg/L	101	91.0	113
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser (QCLot: 4136959)								
EK061G: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	<0.1	10 mg/L	89.4	69.0	101
				<0.1	1 mg/L	109	70.0	118
				<0.1	5 mg/L	95.9	70.0	130
EK067G: Total Phosphorus as P by Discrete Analyser (QCLot: 4136958)								
EK067G: Total Phosphorus as P	----	0.01	mg/L	<0.01	4.42 mg/L	91.1	71.0	101
				<0.01	0.442 mg/L	# 109	72.0	108
				<0.01	1 mg/L	96.7	70.0	130
EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 4137794)								
EP074: Styrene	100-42-5	5	µg/L	<5	10 µg/L	98.4	73.0	119
EP074: Isopropylbenzene	98-82-8	5	µg/L	<5	10 µg/L	103	76.0	118
EP074: n-Propylbenzene	103-65-1	5	µg/L	<5	10 µg/L	99.3	69.0	119
EP074: 1.3.5-Trimethylbenzene	108-67-8	5	µg/L	<5	10 µg/L	99.0	74.0	116
EP074: sec-Butylbenzene	135-98-8	5	µg/L	<5	10 µg/L	101	73.0	119
EP074: 1.2.4-Trimethylbenzene	95-63-6	5	µg/L	<5	10 µg/L	102	74.0	116
EP074: tert-Butylbenzene	98-06-6	5	µg/L	<5	10 µg/L	99.6	72.0	116
EP074: p-Isopropyltoluene	99-87-6	5	µg/L	<5	10 µg/L	98.3	71.0	119
EP074: n-Butylbenzene	104-51-8	5	µg/L	<5	10 µg/L	101	65.0	123
EP074B: Oxygenated Compounds (QCLot: 4137794)								
EP074: Vinyl Acetate	108-05-4	50	µg/L	<50	100 µg/L	107	61.4	134
EP074: 2-Butanone (MEK)	78-93-3	50	µg/L	<50	100 µg/L	127	73.6	130
EP074: 4-Methyl-2-pentanone (MIBK)	108-10-1	50	µg/L	<50	100 µg/L	120	66.0	132
EP074: 2-Hexanone (MBK)	591-78-6	50	µg/L	<50	100 µg/L	116	65.0	137
EP074C: Sulfonated Compounds (QCLot: 4137794)								
EP074: Carbon disulfide	75-15-0	5	µg/L	<5	10 µg/L	100	72.8	127

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Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report		
				Result	Spike Concentration	Spike Recovery (%)	Acceptable Limits (%)
						LCS	Low	High
EP074D: Fumigants (QCLot: 4137794)								
EP074: 2.2-Dichloropropane	594-20-7	5	µg/L	<5	10 µg/L	107	68.0	122
EP074: 1.2-Dichloropropane	78-87-5	5	µg/L	<5	10 µg/L	108	76.0	118
EP074: cis-1.3-Dichloropropylene	10061-01-5	5	µg/L	<5	10 µg/L	109	62.0	120
EP074: trans-1.3-Dichloropropylene	10061-02-6	5	µg/L	<5	10 µg/L	109	60.0	114
EP074: 1.2-Dibromoethane (EDB)	106-93-4	5	µg/L	<5	10 µg/L	116	69.0	117
EP074E: Halogenated Aliphatic Compounds (QCLot: 4137794)								
EP074: Dichlorodifluoromethane	75-71-8	50	µg/L	<50	100 µg/L	95.2	60.6	138
EP074: Chloromethane	74-87-3	50	µg/L	<50	100 µg/L	104	67.4	130
EP074: Vinyl chloride	75-01-4	50	µg/L	<50	100 µg/L	102	69.4	129
EP074: Bromomethane	74-83-9	50	µg/L	<50	100 µg/L	112	56.0	140
EP074: Chloroethane	75-00-3	50	µg/L	<50	100 µg/L	103	61.0	139
EP074: Trichlorofluoromethane	75-69-4	50	µg/L	<50	100 µg/L	104	69.0	131
EP074: 1.1-Dichloroethene	75-35-4	5	µg/L	<5	10 µg/L	107	70.0	124
EP074: Iodomethane	74-88-4	5	µg/L	<5	10 µg/L	98.4	70.2	128
EP074: trans-1.2-Dichloroethene	156-60-5	5	µg/L	<5	10 µg/L	102	74.0	118
EP074: 1.1-Dichloroethane	75-34-3	5	µg/L	<5	10 µg/L	110	74.0	120
EP074: cis-1.2-Dichloroethene	156-59-2	5	µg/L	<5	10 µg/L	107	77.0	119
EP074: 1.1.1-Trichloroethane	71-55-6	5	µg/L	<5	10 µg/L	106	67.0	119
EP074: 1.1-Dichloropropylene	563-58-6	5	µg/L	<5	10 µg/L	103	73.0	119
EP074: Carbon Tetrachloride	56-23-5	5	µg/L	<5	10 µg/L	102	62.0	120
EP074: 1.2-Dichloroethane	107-06-2	5	µg/L	<5	10 µg/L	116	73.0	123
EP074: Trichloroethene	79-01-6	5	µg/L	<5	10 µg/L	105	76.0	118
EP074: Dibromomethane	74-95-3	5	µg/L	<5	10 µg/L	110	73.0	119
EP074: 1.1.2-Trichloroethane	79-00-5	5	µg/L	<5	10 µg/L	115	72.0	126
EP074: 1.3-Dichloropropane	142-28-9	5	µg/L	<5	10 µg/L	114	71.0	129
EP074: Tetrachloroethene	127-18-4	5	µg/L	<5	10 µg/L	110	72.0	124
EP074: 1.1.1.2-Tetrachloroethane	630-20-6	5	µg/L	<5	10 µg/L	106	66.0	114
EP074: trans-1.4-Dichloro-2-butene	110-57-6	5	µg/L	<5	10 µg/L	112	60.0	120
EP074: cis-1.4-Dichloro-2-butene	1476-11-5	5	µg/L	<5	10 µg/L	114	70.6	128
EP074: 1.1.2.2-Tetrachloroethane	79-34-5	5	µg/L	<5	10 µg/L	117	70.0	124
EP074: 1.2.3-Trichloropropane	96-18-4	5	µg/L	<5	10 µg/L	111	74.0	126
EP074: Pentachloroethane	76-01-7	5	µg/L	<5	10 µg/L	107	71.8	126
EP074: 1.2-Dibromo-3-chloropropane	96-12-8	5	µg/L	<5	10 µg/L	112	66.4	136
EP074: Hexachlorobutadiene	87-68-3	5	µg/L	<5	10 µg/L	107	58.0	130
EP074F: Halogenated Aromatic Compounds (QCLot: 4137794)								
EP074: Chlorobenzene	108-90-7	5	µg/L	<5	10 µg/L	109	79.0	117
EP074: Bromobenzene	108-86-1	5	µg/L	<5	10 µg/L	105	76.0	116
EP074: 2-Chlorotoluene	95-49-8	5	µg/L	<5	10 µg/L	104	73.0	119
EP074: 4-Chlorotoluene	106-43-4	5	µg/L	<5	10 µg/L	104	73.0	119

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Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report		
					Spike	Spike Recovery (%)	Acceptable Limits (%)
				Result	Concentration	LCS	Low	High
EP074F: Halogenated Aromatic Compounds (QCLot: 4137794) - continued								
EP074: 1.3-Dichlorobenzene	541-73-1	5	µg/L	<5	10 µg/L	106	75.0	117
EP074: 1.4-Dichlorobenzene	106-46-7	5	µg/L	<5	10 µg/L	108	74.0	118
EP074: 1.2-Dichlorobenzene	95-50-1	5	µg/L	<5	10 µg/L	111	75.0	117
EP074: 1.2.4-Trichlorobenzene	120-82-1	5	µg/L	<5	10 µg/L	108	61.0	125
EP074: 1.2.3-Trichlorobenzene	87-61-6	5	µg/L	<5	10 µg/L	116	67.0	123
EP074G: Trihalomethanes (QCLot: 4137794)								
EP074: Chloroform	67-66-3	5	µg/L	<5	10 µg/L	111	72.0	120
EP074: Bromodichloromethane	75-27-4	5	µg/L	<5	10 µg/L	109	64.0	118
EP074: Dibromochloromethane	124-48-1	5	µg/L	<5	10 µg/L	109	65.0	115
EP074: Bromoform	75-25-2	5	µg/L	<5	10 µg/L	118	73.5	126
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 4134328)								
EP075(SIM): Naphthalene	91-20-3	1	µg/L	<1.0	5 µg/L	75.0	50.0	94.0
EP075(SIM): Acenaphthylene	208-96-8	1	µg/L	<1.0	5 µg/L	81.0	63.6	114
EP075(SIM): Acenaphthene	83-32-9	1	µg/L	<1.0	5 µg/L	88.5	62.2	113
EP075(SIM): Fluorene	86-73-7	1	µg/L	<1.0	5 µg/L	83.0	63.9	115
EP075(SIM): Phenanthrene	85-01-8	1	µg/L	<1.0	5 µg/L	74.8	62.6	116
EP075(SIM): Anthracene	120-12-7	1	µg/L	<1.0	5 µg/L	73.6	64.3	116
EP075(SIM): Fluoranthene	206-44-0	1	µg/L	<1.0	5 µg/L	86.5	63.6	118
EP075(SIM): Pyrene	129-00-0	1	µg/L	<1.0	5 µg/L	86.2	63.1	118
EP075(SIM): Benz(a)anthracene	56-55-3	1	µg/L	<1.0	5 µg/L	77.3	64.1	117
EP075(SIM): Chrysene	218-01-9	1	µg/L	<1.0	5 µg/L	82.7	62.5	116
EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	1	µg/L	<1.0	5 µg/L	69.4	61.7	119
EP075(SIM): Benzo(k)fluoranthene	207-08-9	1	µg/L	<1.0	5 µg/L	73.4	63.0	115
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	µg/L	<0.5	5 µg/L	70.0	63.3	117
EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	1	µg/L	<1.0	5 µg/L	75.2	59.9	118
EP075(SIM): Dibenz(a.h)anthracene	53-70-3	1	µg/L	<1.0	5 µg/L	75.6	61.2	117
EP075(SIM): Benzo(g.h.i)perylene	191-24-2	1	µg/L	<1.0	5 µg/L	70.7	59.1	118
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4134329)								
EP071: C10 - C14 Fraction	---	50	µg/L	<50	400 µg/L	83.1	55.8	112
EP071: C15 - C28 Fraction	---	100	µg/L	<100	600 µg/L	77.4	71.6	113
EP071: C29 - C36 Fraction	---	50	µg/L	<50	400 µg/L	77.2	56.0	121
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4137793)								
EP080: C6 - C9 Fraction	---	20	µg/L	<20	260 µg/L	89.6	75.0	127
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4134329)								
EP071: >C10 - C16 Fraction	---	100	µg/L	<100	500 µg/L	71.7	57.9	119
EP071: >C16 - C34 Fraction	---	100	µg/L	<100	700 µg/L	85.2	62.5	110
EP071: >C34 - C40 Fraction	---	100	µg/L	<100	300 µg/L	90.7	61.5	121

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Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4137793)								
EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	310 µg/L	87.2	75.0	127
EP080: BTEXN (QCLot: 4137793)								
EP080: Benzene	71-43-2	1	µg/L	<1	10 µg/L	90.3	70.0	122
EP080: Toluene	108-88-3	2	µg/L	<2	10 µg/L	93.8	69.0	123
EP080: Ethylbenzene	100-41-4	2	µg/L	<2	10 µg/L	93.9	70.0	120
EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	10 µg/L	92.6	69.0	121
EP080: ortho-Xylene	95-47-6	2	µg/L	<2	10 µg/L	95.4	72.0	122
EP080: Naphthalene	91-20-3	5	µg/L	<5	10 µg/L	100	70.0	120

Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

Sub-Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	SpikeRecovery(%): MS	Acceptable Limits (%): Low	Acceptable Limits (%): High
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA (QCLot: 4133588)							
ES2201864-002	Anonymous	ED041G: Sulfate as SO4 - Turbidimetric	14808-79-8	10 mg/L	# Not Determined	70.0	130
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA (QCLot: 4133619)							
ES2201940-001	Anonymous	ED041G: Sulfate as SO4 - Turbidimetric	14808-79-8	10 mg/L	# Not Determined	70.0	130
ED045G: Chloride by Discrete Analyser (QCLot: 4133589)							
ES2201864-002	Anonymous	ED045G: Chloride	16887-00-6	50 mg/L	# Not Determined	70.0	130
ED045G: Chloride by Discrete Analyser (QCLot: 4133618)							
ES2201940-001	Anonymous	ED045G: Chloride	16887-00-6	50 mg/L	# Not Determined	70.0	130
EG020F: Dissolved Metals by ICP-MS (QCLot: 4138238)							
ES2201979-002	S54	EG020A-F: Arsenic	7440-38-2	1 mg/L	109	70.0	130
		EG020A-F: Cadmium	7440-43-9	0.25 mg/L	105	70.0	130
		EG020A-F: Chromium	7440-47-3	1 mg/L	102	70.0	130
		EG020A-F: Copper	7440-50-8	1 mg/L	100	70.0	130
		EG020A-F: Lead	7439-92-1	1 mg/L	97.0	70.0	130
		EG020A-F: Nickel	7440-02-0	1 mg/L	100	70.0	130
		EG020A-F: Zinc	7440-66-6	1 mg/L	105	70.0	130

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Sub-Matrix: **WATER**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EG035F: Dissolved Mercury by FIMS (QCLot: 4138239)							
ES2201979-003	S02_d	EG035F: Mercury	7439-97-6	0.01 mg/L	86.9	70.0	130
EK055G: Ammonia as N by Discrete Analyser (QCLot: 4136962)							
ES2201979-001	S51	EK055G: Ammonia as N	7664-41-7	1 mg/L	# Not Determined	70.0	130
EK057G: Nitrite as N by Discrete Analyser (QCLot: 4133586)							
ES2201864-002	Anonymous	EK057G: Nitrite as N	14797-65-0	0.5 mg/L	105	70.0	130
EK057G: Nitrite as N by Discrete Analyser (QCLot: 4133617)							
ES2201940-001	Anonymous	EK057G: Nitrite as N	14797-65-0	0.5 mg/L	116	70.0	130
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QCLot: 4136963)							
ES2201979-001	S51	EK059G: Nitrite + Nitrate as N	----	0.5 mg/L	94.4	70.0	130
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser (QCLot: 4136959)							
ES2201979-002	S54	EK061G: Total Kjeldahl Nitrogen as N	----	100 mg/L	94.0	70.0	130
EK067G: Total Phosphorus as P by Discrete Analyser (QCLot: 4136958)							
ES2201979-002	S54	EK067G: Total Phosphorus as P	----	20 mg/L	97.9	70.0	130
EP074E: Halogenated Aliphatic Compounds (QCLot: 4137794)							
ES2201979-001	S51	EP074: 1.1-Dichloroethene	75-35-4	25 µg/L	106	70.0	130
		EP074: Trichloroethene	79-01-6	25 µg/L	96.2	70.0	130
EP074F: Halogenated Aromatic Compounds (QCLot: 4137794)							
ES2201979-001	S51	EP074: Chlorobenzene	108-90-7	25 µg/L	106	70.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4137793)							
ES2201979-001	S51	EP080: C6 - C9 Fraction	----	325 µg/L	86.3	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4137793)							
ES2201979-001	S51	EP080: C6 - C10 Fraction	C6_C10	375 µg/L	77.7	70.0	130
EP080: BTEXN (QCLot: 4137793)							
ES2201979-001	S51	EP080: Benzene	71-43-2	25 µg/L	88.3	70.0	130
		EP080: Toluene	108-88-3	25 µg/L	92.4	70.0	130
		EP080: Ethylbenzene	100-41-4	25 µg/L	93.0	70.0	130
		EP080: meta- & para-Xylene	108-38-3 106-42-3	25 µg/L	93.3	70.0	130
		EP080: ortho-Xylene	95-47-6	25 µg/L	96.8	70.0	130
		EP080: Naphthalene	91-20-3	25 µg/L	85.2	70.0	130

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ALS Environmental

QA/QC Compliance Assessment to assist with Quality Review

Work Order	: **ES2201979**	Page	: 1 of 13
Client	: **ENVIRONMENTAL RESOURCES MANAGEMENT (ERM)**	Laboratory	: Environmental Division Sydney
Contact	: NICHOLAS GRBICH	Telephone	: +61-2-8784 8555
Project	: 0628507	Date Samples Received	: 20-Jan-2022
Site	: ----	Issue Date	: 31-Jan-2022
Sampler	: TAJ MONDON	No. of samples received	: 16
Order number	: ----	No. of samples analysed	: 14

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers : Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- **NO Method Blank value outliers occur.**
- **NO Duplicate outliers occur.**
- **Laboratory Control outliers exist - please see following pages for full details.**
- **Matrix Spike outliers exist - please see following pages for full details.**
- **Surrogate recovery outliers exist for all regular sample matrices - please see following pages for full details.**

Outliers : Analysis Holding Time Compliance

- **Analysis Holding Time Outliers exist - please see following pages for full details.**

Outliers : Frequency of Quality Control Samples

- **Quality Control Sample Frequency Outliers exist - please see following pages for full details.**

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Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **WATER**

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Laboratory Control Spike (LCS) Recoveries							
EK067G: Total Phosphorus as P by Discrete Analyser	QC-MRG2-41369580	----	**Total Phosphorus as P**	----	109 %	72.0-108%	**Recovery greater than upper control limit**
Matrix Spike (MS) Recoveries							
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA	ES2201864--002	Anonymous	**Sulfate as SO4 - Turbidimetric**	14808-79-8	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA	ES2201940--001	Anonymous	**Sulfate as SO4 - Turbidimetric**	14808-79-8	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**
ED045G: Chloride by Discrete Analyser	ES2201864--002	Anonymous	**Chloride**	16887-00-6	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**
ED045G: Chloride by Discrete Analyser	ES2201940--001	Anonymous	**Chloride**	16887-00-6	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**
EK055G: Ammonia as N by Discrete Analyser	ES2201979--001	S51	**Ammonia as N**	7664-41-7	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**

Regular Sample Surrogates

Sub-Matrix: **WATER**

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Samples Submitted							
EP074S: VOC Surrogates	ES2201979-008	SMW_BH019	**4-Bromofluorobenzene**	460-00-4	80.0 %	80.8-124 %	**Recovery less than lower data quality objective**

Outliers : Analysis Holding Time Compliance

Matrix: **WATER**

Method / **Container** / Client Sample ID(s)	*Extraction / Preparation*			*Analysis*		
	Date extracted	*Due for extraction*	***Days overdue***	*Date analysed*	*Due for analysis*	***Days overdue***
EK057G: Nitrite as N by Discrete Analyser						
Clear Plastic Bottle - Natural						
S40_d, SMW_BH019, SMW_BH120, D01_220119	----	----	----	22-Jan-2022	21-Jan-2022	**1**
EP080/071: Total Petroleum Hydrocarbons						
Amber VOC Vial - Sulfuric Acid						
Trip blank	28-Jan-2022	27-Jan-2022	**1**	28-Jan-2022	27-Jan-2022	**1**
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions						

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Matrix: **WATER**

Method / Container / Client Sample ID(s)	Extraction / Preparation: Date extracted	Due for extraction	Days overdue	Analysis: Date analysed	Due for analysis	Days overdue
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Analysis Holding Time						
Amber VOC Vial - Sulfuric Acid						
Trip blank	28-Jan-2022	27-Jan-2022	1	28-Jan-2022	27-Jan-2022	1
EP080: BTEXN						
Amber VOC Vial - Sulfuric Acid						
Trip Spike, Trip blank	28-Jan-2022	27-Jan-2022	1	28-Jan-2022	27-Jan-2022	1

Outliers : Frequency of Quality Control Samples

Matrix: **WATER**

Quality Control Sample Type / Method	Count: QC	Regular	Rate (%): Actual	Expected	Quality Control Specification
Laboratory Duplicates (DUP)					
Ammonia as N by Discrete analyser	1	19	5.26	10.00	NEPM 2013 B3 & ALS QC Standard
Nitrite and Nitrate as N (NOx) by Discrete Analyser	1	17	5.88	10.00	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (GC/MS - SIM)	0	19	0.00	10.00	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	0	19	0.00	10.00	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)					
PAH/Phenols (GC/MS - SIM)	0	19	0.00	5.00	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	0	19	0.00	5.00	NEPM 2013 B3 & ALS QC Standard

Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for ***VOC in soils*** vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation: Date extracted	Due for extraction	Evaluation	Analysis: Date analysed	Due for analysis	Evaluation
EA015: Total Dissolved Solids dried at 180 ± 5 °C							
Clear Plastic Bottle - Natural (EA015H)							
S40_d, SMW_BH120, SMW_BH019, D01_220119	**19-Jan-2022**	----	----	----	**25-Jan-2022**	26-Jan-2022	✓
Clear Plastic Bottle - Natural (EA015H)							
S51, S54, S02_d, S06, S40_s, BUR-MW108	**20-Jan-2022**	—	-—	-—	**25-Jan-2022**	27-Jan-2022	✓

Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)		Sample Date	Extraction / Preparation			Analysis		
			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
ED037P: Alkalinity by PC Titrator								
Clear Plastic Bottle - Natural (ED037-P)								
S40_d, SMW_BH019,	SMW_BH120, D01_220119	**19-Jan-2022**	----	----	----	**25-Jan-2022**	02-Feb-2022	✓
Clear Plastic Bottle - Natural (ED037-P)								
S51, S02_d, S40_s,	S54, S06, BUR-MW108	**20-Jan-2022**	----	----	----	**25-Jan-2022**	03-Feb-2022	✓
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA								
Clear Plastic Bottle - Natural (ED041G)								
S40_d, SMW_BH019,	SMW_BH120, D01_220119	**19-Jan-2022**	----	----	----	**22-Jan-2022**	16-Feb-2022	✓
Clear Plastic Bottle - Natural (ED041G)								
S51, S02_d, S40_s,	S54, S06, BUR-MW108	**20-Jan-2022**	----	----	----	**22-Jan-2022**	17-Feb-2022	✓
ED045G: Chloride by Discrete Analyser								
Clear Plastic Bottle - Natural (ED045G)								
S40_d, SMW_BH019,	SMW_BH120, D01_220119	**19-Jan-2022**	----	----	----	**22-Jan-2022**	16-Feb-2022	✓
Clear Plastic Bottle - Natural (ED045G)								
S51, S02_d, S40_s,	S54, S06, BUR-MW108	**20-Jan-2022**	----	----	----	**22-Jan-2022**	17-Feb-2022	✓
ED093F: Dissolved Major Cations								
Clear Plastic Bottle - Nitric Acid; Filtered (ED093F)								
S40_d, SMW_BH019,	SMW_BH120, D01_220119	**19-Jan-2022**	----	----	----	**25-Jan-2022**	16-Feb-2022	✓
Clear Plastic Bottle - Nitric Acid; Filtered (ED093F)								
S51, S02_d, S40_s,	S54, S06, BUR-MW108	**20-Jan-2022**	----	----	----	**25-Jan-2022**	17-Feb-2022	✓
EG020F: Dissolved Metals by ICP-MS								
Clear Plastic Bottle - Nitric Acid; Filtered (EG020A-F)								
S40_d, SMW_BH019, RO1-220119	SMW_BH120, D01_220119,	**19-Jan-2022**	----	----	----	**25-Jan-2022**	18-Jul-2022	✓
Clear Plastic Bottle - Nitric Acid; Filtered (EG020A-F)								
S51, S02_d, S40_s, BUR-MW108	S54, S06, RO1-20-01-22,	**20-Jan-2022**	—	-—	-—	**25-Jan-2022**	19-Jul-2022	✓

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Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)		Sample Date	Extraction / Preparation			Analysis		
			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EG035F: Dissolved Mercury by FIMS								
Clear Plastic Bottle - Nitric Acid; Filtered (EG035F)								
S40_d, SMW_BH019, RO1-220119	SMW_BH120, D01_220119,	**19-Jan-2022**	----	----	----	**27-Jan-2022**	16-Feb-2022	✓
Clear Plastic Bottle - Nitric Acid; Filtered (EG035F)								
S51, S02_d, S40_s, BUR-MW108	S54, S06, RO1-20-01-22,	**20-Jan-2022**	----	----	----	**27-Jan-2022**	17-Feb-2022	✓
EK055G: Ammonia as N by Discrete Analyser								
Clear Plastic Bottle - Sulfuric Acid (EK055G)								
S40_d, SMW_BH019, RO1-220119	SMW_BH120, D01_220119,	**19-Jan-2022**	----	----	----	**25-Jan-2022**	16-Feb-2022	✓
Clear Plastic Bottle - Sulfuric Acid (EK055G)								
S51, S02_d, S40_s, BUR-MW108	S54, S06, RO1-20-01-22,	**20-Jan-2022**	----	----	----	**25-Jan-2022**	17-Feb-2022	✓
EK057G: Nitrite as N by Discrete Analyser								
Clear Plastic Bottle - Natural (EK057G)								
S40_d, SMW_BH019,	SMW_BH120, D01_220119	**19-Jan-2022**	----	----	----	**22-Jan-2022**	21-Jan-2022	×
Clear Plastic Bottle - Natural (EK057G)								
S51, S02_d, S40_s,	S54, S06, BUR-MW108	**20-Jan-2022**	----	----	----	**22-Jan-2022**	22-Jan-2022	✓
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser								
Clear Plastic Bottle - Sulfuric Acid (EK059G)								
S40_d, SMW_BH019, RO1-220119	SMW_BH120, D01_220119,	**19-Jan-2022**	----	----	----	**25-Jan-2022**	16-Feb-2022	✓
Clear Plastic Bottle - Sulfuric Acid (EK059G)								
S51, S02_d, S40_s, BUR-MW108	S54, S06, RO1-20-01-22,	**20-Jan-2022**	----	----	----	**25-Jan-2022**	17-Feb-2022	✓

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Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser							
Clear Plastic Bottle - Sulfuric Acid (EK061G)							
S40_d, SMW_BH019, RO1-220119, SMW_BH120, D01_220119,	**19-Jan-2022**	**25-Jan-2022**	16-Feb-2022	✓	**25-Jan-2022**	16-Feb-2022	✓
Clear Plastic Bottle - Sulfuric Acid (EK061G)							
S51, S02_d, S40_s, BUR-MW108, S54, S06, RO1-20-01-22,	**20-Jan-2022**	**25-Jan-2022**	17-Feb-2022	✓	**25-Jan-2022**	17-Feb-2022	✓
EK067G: Total Phosphorus as P by Discrete Analyser							
Clear Plastic Bottle - Sulfuric Acid (EK067G)							
S40_d, SMW_BH019, RO1-220119, SMW_BH120, D01_220119,	**19-Jan-2022**	**25-Jan-2022**	16-Feb-2022	✓	**25-Jan-2022**	16-Feb-2022	✓
Clear Plastic Bottle - Sulfuric Acid (EK067G)							
S51, S02_d, S40_s, BUR-MW108, S54, S06, RO1-20-01-22,	**20-Jan-2022**	**25-Jan-2022**	17-Feb-2022	✓	**25-Jan-2022**	17-Feb-2022	✓
EP074A: Monocyclic Aromatic Hydrocarbons							
Amber VOC Vial - Sulfuric Acid (EP074)							
S40_d, SMW_BH019, RO1-220119, SMW_BH120, D01_220119,	**19-Jan-2022**	**28-Jan-2022**	02-Feb-2022	✓	**28-Jan-2022**	02-Feb-2022	✓
Amber VOC Vial - Sulfuric Acid (EP074)							
S51, S02_d, S40_s, BUR-MW108, S54, S06, RO1-20-01-22,	**20-Jan-2022**	**28-Jan-2022**	03-Feb-2022	✓	**28-Jan-2022**	03-Feb-2022	✓
EP074B: Oxygenated Compounds							
Amber VOC Vial - Sulfuric Acid (EP074)							
S40_d, SMW_BH019, RO1-220119, SMW_BH120, D01_220119,	**19-Jan-2022**	**28-Jan-2022**	02-Feb-2022	✓	**28-Jan-2022**	02-Feb-2022	✓
Amber VOC Vial - Sulfuric Acid (EP074)							
S51, S02_d, S40_s, BUR-MW108, S54, S06, RO1-20-01-22,	**20-Jan-2022**	**28-Jan-2022**	03-Feb-2022	✓	**28-Jan-2022**	03-Feb-2022	✓

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Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP074C: Sulfonated Compounds							
Amber VOC Vial - Sulfuric Acid (EP074)							
S40_d, SMW_BH019, RO1-220119, SMW_BH120, D01_220119,	**19-Jan-2022**	**28-Jan-2022**	02-Feb-2022	✓	**28-Jan-2022**	02-Feb-2022	✓
Amber VOC Vial - Sulfuric Acid (EP074)							
S51, S02_d, S40_s, BUR-MW108, S54, S06, RO1-20-01-22,	**20-Jan-2022**	**28-Jan-2022**	03-Feb-2022	✓	**28-Jan-2022**	03-Feb-2022	✓
EP074D: Fumigants							
Amber VOC Vial - Sulfuric Acid (EP074)							
S40_d, SMW_BH019, RO1-220119, SMW_BH120, D01_220119,	**19-Jan-2022**	**28-Jan-2022**	02-Feb-2022	✓	**28-Jan-2022**	02-Feb-2022	✓
Amber VOC Vial - Sulfuric Acid (EP074)							
S51, S02_d, S40_s, BUR-MW108, S54, S06, RO1-20-01-22,	**20-Jan-2022**	**28-Jan-2022**	03-Feb-2022	✓	**28-Jan-2022**	03-Feb-2022	✓
EP074E: Halogenated Aliphatic Compounds							
Amber VOC Vial - Sulfuric Acid (EP074)							
S40_d, SMW_BH019, RO1-220119, SMW_BH120, D01_220119,	**19-Jan-2022**	**28-Jan-2022**	02-Feb-2022	✓	**28-Jan-2022**	02-Feb-2022	✓
Amber VOC Vial - Sulfuric Acid (EP074)							
S51, S02_d, S40_s, BUR-MW108, S54, S06, RO1-20-01-22,	**20-Jan-2022**	**28-Jan-2022**	03-Feb-2022	✓	**28-Jan-2022**	03-Feb-2022	✓
EP074F: Halogenated Aromatic Compounds							
Amber VOC Vial - Sulfuric Acid (EP074)							
S40_d, SMW_BH019, RO1-220119, SMW_BH120, D01_220119,	**19-Jan-2022**	**28-Jan-2022**	02-Feb-2022	✓	**28-Jan-2022**	02-Feb-2022	✓
Amber VOC Vial - Sulfuric Acid (EP074)							
S51, S02_d, S40_s, BUR-MW108, S54, S06, RO1-20-01-22,	**20-Jan-2022**	**28-Jan-2022**	03-Feb-2022	✓	**28-Jan-2022**	03-Feb-2022	✓

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Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP074G: Trihalomethanes							
Amber VOC Vial - Sulfuric Acid (EP074)							
S40_d, SMW_BH019, RO1-220119 / SMW_BH120, D01_220119,	**19-Jan-2022**	**28-Jan-2022**	02-Feb-2022	✓	**28-Jan-2022**	02-Feb-2022	✓
Amber VOC Vial - Sulfuric Acid (EP074)							
S51, S02_d, S40_s, BUR-MW108 / S54, S06, RO1-20-01-22,	**20-Jan-2022**	**28-Jan-2022**	03-Feb-2022	✓	**28-Jan-2022**	03-Feb-2022	✓
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons							
Amber Glass Bottle - Unpreserved (EP075(SIM))							
S40_d, SMW_BH019, RO1-220119 / SMW_BH120, D01_220119,	**19-Jan-2022**	**25-Jan-2022**	26-Jan-2022	✓	**27-Jan-2022**	06-Mar-2022	✓
Amber Glass Bottle - Unpreserved (EP075(SIM))							
S51, S02_d, S40_s, BUR-MW108 / S54, S06, RO1-20-01-22,	**20-Jan-2022**	**25-Jan-2022**	27-Jan-2022	✓	**27-Jan-2022**	06-Mar-2022	✓
EP080/071: Total Petroleum Hydrocarbons							
Amber Glass Bottle - Unpreserved (EP071)							
S40_d, SMW_BH019, RO1-220119 / SMW_BH120, D01_220119,	**19-Jan-2022**	**25-Jan-2022**	26-Jan-2022	✓	**27-Jan-2022**	06-Mar-2022	✓
Amber Glass Bottle - Unpreserved (EP071)							
S51, S02_d, S40_s, BUR-MW108 / S54, S06, RO1-20-01-22,	**20-Jan-2022**	**25-Jan-2022**	27-Jan-2022	✓	**27-Jan-2022**	06-Mar-2022	✓
Amber VOC Vial - Sulfuric Acid (EP080)							
Trip blank	**13-Jan-2022**	**28-Jan-2022**	27-Jan-2022	×	**28-Jan-2022**	27-Jan-2022	×
Amber VOC Vial - Sulfuric Acid (EP080)							
S40_d, SMW_BH019, RO1-220119 / SMW_BH120, D01_220119,	**19-Jan-2022**	**28-Jan-2022**	02-Feb-2022	✓	**28-Jan-2022**	02-Feb-2022	✓
Amber VOC Vial - Sulfuric Acid (EP080)							
S51, S02_d, S40_s, BUR-MW108 / S54, S06, RO1-20-01-22,	**20-Jan-2022**	**28-Jan-2022**	03-Feb-2022	✓	**28-Jan-2022**	03-Feb-2022	✓

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Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions							
Amber Glass Bottle - Unpreserved (EP071)							
S40_d, SMW_BH019, RO1-220119 / SMW_BH120, D01_220119,	**19-Jan-2022**	**25-Jan-2022**	26-Jan-2022	✓	**27-Jan-2022**	06-Mar-2022	✓
Amber Glass Bottle - Unpreserved (EP071)							
S51, S02_d, S40_s, BUR-MW108 / S54, S06, RO1-20-01-22,	**20-Jan-2022**	**25-Jan-2022**	27-Jan-2022	✓	**27-Jan-2022**	06-Mar-2022	✓
Amber VOC Vial - Sulfuric Acid (EP080)							
Trip blank	**13-Jan-2022**	**28-Jan-2022**	27-Jan-2022	×	**28-Jan-2022**	27-Jan-2022	×
Amber VOC Vial - Sulfuric Acid (EP080)							
S40_d, SMW_BH019, RO1-220119 / SMW_BH120, D01_220119,	**19-Jan-2022**	**28-Jan-2022**	02-Feb-2022	✓	**28-Jan-2022**	02-Feb-2022	✓
Amber VOC Vial - Sulfuric Acid (EP080)							
S51, S02_d, S40_s, BUR-MW108 / S54, S06, RO1-20-01-22,	**20-Jan-2022**	**28-Jan-2022**	03-Feb-2022	✓	**28-Jan-2022**	03-Feb-2022	✓
EP080: BTEXN							
Amber VOC Vial - Sulfuric Acid (EP080)							
Trip Spike, / Trip blank	**13-Jan-2022**	**28-Jan-2022**	27-Jan-2022	×	**28-Jan-2022**	27-Jan-2022	×
Amber VOC Vial - Sulfuric Acid (EP080)							
S40_d, SMW_BH019, RO1-220119 / SMW_BH120, D01_220119,	**19-Jan-2022**	**28-Jan-2022**	02-Feb-2022	✓	**28-Jan-2022**	02-Feb-2022	✓
Amber VOC Vial - Sulfuric Acid (EP080)							
S51, S02_d, S40_s, BUR-MW108 / S54, S06, RO1-20-01-22,	**20-Jan-2022**	**28-Jan-2022**	03-Feb-2022	✓	**28-Jan-2022**	03-Feb-2022	✓

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Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(were) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

Matrix: **WATER**

Evaluation: ✗ = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Laboratory Duplicates (DUP)							
Alkalinity by PC Titrator	ED037-P	2	17	**11.76**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Ammonia as N by Discrete analyser	EK055G	1	19	**5.26**	**10.00**	✗	NEPM 2013 B3 & ALS QC Standard
Chloride by Discrete Analyser	ED045G	4	39	**10.26**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Mercury by FIMS	EG035F	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Metals by ICP-MS - Suite A	EG020A-F	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Major Cations - Dissolved	ED093F	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	1	17	**5.88**	**10.00**	✗	NEPM 2013 B3 & ALS QC Standard
Nitrite as N by Discrete Analyser	EK057G	4	30	**13.33**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	0	19	**0.00**	**10.00**	✗	NEPM 2013 B3 & ALS QC Standard
Sulfate (Turbidimetric) as SO4 2- by Discrete Analyser	ED041G	4	39	**10.26**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Dissolved Solids (High Level)	EA015H	4	31	**12.90**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Kjeldahl Nitrogen as N By Discrete Analyser	EK061G	2	17	**11.76**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Phosphorus as P By Discrete Analyser	EK067G	2	19	**10.53**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	0	19	**0.00**	**10.00**	✗	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds	EP074	2	18	**11.11**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Alkalinity by PC Titrator	ED037-P	2	17	**11.76**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Ammonia as N by Discrete analyser	EK055G	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Chloride by Discrete Analyser	ED045G	4	39	**10.26**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Mercury by FIMS	EG035F	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Metals by ICP-MS - Suite A	EG020A-F	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Major Cations - Dissolved	ED093F	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	1	17	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite as N by Discrete Analyser	EK057G	2	30	**6.67**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Sulfate (Turbidimetric) as SO4 2- by Discrete Analyser	ED041G	4	39	**10.26**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Dissolved Solids (High Level)	EA015H	6	31	**19.35**	**15.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Kjeldahl Nitrogen as N By Discrete Analyser	EK061G	3	17	**17.65**	**15.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Phosphorus as P By Discrete Analyser	EK067G	3	19	**15.79**	**15.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds	EP074	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Ammonia as N by Discrete analyser	EK055G	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Chloride by Discrete Analyser	ED045G	2	39	**5.13**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard

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Matrix: **WATER**

Evaluation: ✗ = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Method Blanks (MB) - Continued							
Dissolved Mercury by FIMS	EG035F	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Metals by ICP-MS - Suite A	EG020A-F	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Major Cations - Dissolved	ED093F	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	1	17	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite as N by Discrete Analyser	EK057G	2	30	**6.67**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Sulfate (Turbidimetric) as SO4 2- by Discrete Analyser	ED041G	2	39	**5.13**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Dissolved Solids (High Level)	EA015H	2	31	**6.45**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Kjeldahl Nitrogen as N By Discrete Analyser	EK061G	1	17	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Phosphorus as P By Discrete Analyser	EK067G	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds	EP074	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Ammonia as N by Discrete analyser	EK055G	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Chloride by Discrete Analyser	ED045G	2	39	**5.13**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Mercury by FIMS	EG035F	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Metals by ICP-MS - Suite A	EG020A-F	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	1	17	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite as N by Discrete Analyser	EK057G	2	30	**6.67**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	0	19	**0.00**	**5.00**	✗	NEPM 2013 B3 & ALS QC Standard
Sulfate (Turbidimetric) as SO4 2- by Discrete Analyser	ED041G	2	39	**5.13**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Kjeldahl Nitrogen as N By Discrete Analyser	EK061G	1	17	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Phosphorus as P By Discrete Analyser	EK067G	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	0	19	**0.00**	**5.00**	✗	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds	EP074	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard

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Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
Total Dissolved Solids (High Level)	EA015H	WATER	In house: Referenced to APHA 2540C. A gravimetric procedure that determines the amount of `filterable` residue in an aqueous sample. A well-mixed sample is filtered through a glass fibre filter (1.2um). The filtrate is evaporated to dryness and dried to constant weight at 180+/-5C. This method is compliant with NEPM Schedule B(3)
Alkalinity by PC Titrator	ED037-P	WATER	In house: Referenced to APHA 2320 B This procedure determines alkalinity by automated measurement (e.g. PC Titrate) on a settled supernatant aliquot of the sample using pH 4.5 for indicating the total alkalinity end-point. This method is compliant with NEPM Schedule B(3)
Sulfate (Turbidimetric) as SO4 2- by Discrete Analyser	ED041G	WATER	In house: Referenced to APHA 4500-SO4. Dissolved sulfate is determined in a 0.45um filtered sample. Sulfate ions are converted to a barium sulfate suspension in an acetic acid medium with barium chloride. Light absorbance of the BaSO4 suspension is measured by a photometer and the SO4-2 concentration is determined by comparison of the reading with a standard curve. This method is compliant with NEPM Schedule B(3)
Chloride by Discrete Analyser	ED045G	WATER	In house: Referenced to APHA 4500 Cl - G.The thiocyanate ion is liberated from mercuric thiocyanate through sequestration of mercury by the chloride ion to form non-ionised mercuric chloride.in the presence of ferric ions the librated thiocynate forms highly-coloured ferric thiocynate which is measured at 480 nm APHA seal method 2 017-1-L
Major Cations - Dissolved	ED093F	WATER	In house: Referenced to APHA 3120 and 3125; USEPA SW 846 - 6010 and 6020; Cations are determined by either ICP-AES or ICP-MS techniques. This method is compliant with NEPM Schedule B(3) Sodium Adsorption Ratio is calculated from Ca, Mg and Na which determined by ALS in house method QWI-EN/ED093F. This method is compliant with NEPM Schedule B(3) Hardness parameters are calculated based on APHA 2340 B. This method is compliant with NEPM Schedule B(3)
Dissolved Metals by ICP-MS - Suite A	EG020A-F	WATER	In house: Referenced to APHA 3125; USEPA SW846 - 6020, ALS QWI-EN/EG020. Samples are 0.45µm filtered prior to analysis. The ICPMS technique utilizes a highly efficient argon plasma to ionize selected elements. Ions are then passed into a high vacuum mass spectrometer, which separates the analytes based on their distinct mass to charge ratios prior to their measurement by a discrete dynode ion detector.
Dissolved Mercury by FIMS	EG035F	WATER	In house: Referenced to APHA 3112 Hg - B (Flow-injection (SnCl2)(Cold Vapour generation) AAS) Samples are 0.45µm filtered prior to analysis. FIM-AAS is an automated flameless atomic absorption technique. A bromate/bromide reagent is used to oxidise any organic mercury compounds in the filtered sample. The ionic mercury is reduced online to atomic mercury vapour by SnCl2 which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM Schedule B(3).
Ammonia as N by Discrete analyser	EK055G	WATER	In house: Referenced to APHA 4500-NH3 G Ammonia is determined by direct colorimetry by Discrete Analyser. This method is compliant with NEPM Schedule B(3)
Nitrite as N by Discrete Analyser	EK057G	WATER	In house: Referenced to APHA 4500-NO2- B. Nitrite is determined by direct colourimetry by Discrete Analyser. This method is compliant with NEPM Schedule B(3)
Nitrate as N by Discrete Analyser	EK058G	WATER	In house: Referenced to APHA 4500-NO3- F. Nitrate is reduced to nitrite by way of a chemical reduction followed by quantification by Discrete Analyser. Nitrite is determined seperately by direct colourimetry and result for Nitrate calculated as the difference between the two results. This method is compliant with NEPM Schedule B(3)

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Analytical Methods	Method	Matrix	Method Descriptions
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	WATER	In house: Referenced to APHA 4500-NO3- F. Combined oxidised Nitrogen (NO2+NO3) is determined by Chemical Reduction and direct colourimetry by Discrete Analyser. This method is compliant with NEPM Schedule B(3)
Total Kjeldahl Nitrogen as N By Discrete Analyser	EK061G	WATER	In house: Referenced to APHA 4500-Norg D (In house). An aliquot of sample is digested using a high temperature Kjeldahl digestion to convert nitrogenous compounds to ammonia. Ammonia is determined colorimetrically by discrete analyser. This method is compliant with NEPM Schedule B(3)
Total Nitrogen as N (TKN + Nox) By Discrete Analyser	EK062G	WATER	In house: Referenced to APHA 4500-Norg / 4500-NO3-. This method is compliant with NEPM Schedule B(3)
Total Phosphorus as P By Discrete Analyser	EK067G	WATER	In house: Referenced to APHA 4500-P H, Jirka et al, Zhang et al. This procedure involves sulphuric acid digestion of a sample aliquot to break phosphorus down to orthophosphate. The orthophosphate reacts with ammonium molybdate and antimony potassium tartrate to form a complex which is then reduced and its concentration measured at 880nm using discrete analyser. This method is compliant with NEPM Schedule B(3)
Ionic Balance by PCT DA and Turbi SO4 DA	* EN055 - PG	WATER	In house: Referenced to APHA 1030F. This method is compliant with NEPM Schedule B(3)
TRH - Semivolatile Fraction	EP071	WATER	In house: Referenced to USEPA SW 846 - 8015 The sample extract is analysed by Capillary GC/FID and quantification is by comparison against an established 5 point calibration curve of n-Alkane standards. This method is compliant with the QC requirements of NEPM Schedule B(3)
Volatile Organic Compounds	EP074	WATER	In house: Referenced to USEPA SW 846 - 8260 Water samples are directly purged prior to analysis by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3)
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	WATER	In house: Referenced to USEPA SW 846 - 8270 Sample extracts are analysed by Capillary GC/MS in SIM Mode and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3)
TRH Volatiles/BTEX	EP080	WATER	In house: Referenced to USEPA SW 846 - 8260 Water samples are directly purged prior to analysis by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. Alternatively, a sample is equilibrated in a headspace vial and a portion of the headspace determined by GCMS analysis. This method is compliant with the QC requirements of NEPM Schedule B(3)

Preparation Methods	Method	Matrix	Method Descriptions
TKN/TP Digestion	EK061/EK067	WATER	In house: Referenced to APHA 4500 Norg - D; APHA 4500 P - H. This method is compliant with NEPM Schedule B(3)
Separatory Funnel Extraction of Liquids	ORG14	WATER	In house: Referenced to USEPA SW 846 - 3510 100 mL to 1L of sample is transferred to a separatory funnel and serially extracted three times using DCM for each extract. The resultant extracts are combined, dehydrated and concentrated for analysis. This method is compliant with NEPM Schedule B(3) . ALS default excludes sediment which may be resident in the container.
Volatiles Water Preparation	ORG16-W	WATER	A 5 mL aliquot or 5 mL of a diluted sample is added to a 40 mL VOC vial for purging.

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CHAIN OF CUSTODY

ALS Laboratory: please tick →

ADELAIDE 21 Burma Road Pooraka SA 5095 Ph: 08 8359 0890 E: adelaide@alsglobal.com
BRISBANE 32 Shand Street Stafford QLD 4053 Ph: 07 3243 7222 E: samples.brisbane@alsglobal.com
GLADSTONE 46 Callemondah Drive Clinton QLD 4680 Ph: 07 7471 5600 E: gladstone@alsglobal.com
MACKAY 78 Harbour Road Mackay QLD 4740 Ph: 07 4944 0177 E: mackay@alsglobal.com
MELBOURNE 24 Westall Road Springvale VIC 3171 Ph: 03 8549 9600 E: samples.melbourne@alsglobal.com
MUDGEE 27 Sydney Road Mudgee NSW 2850 Ph: 02 6372 6735 E: mudgee.mail@alsglobal.com
NEWCASTLE 5/585 Maitland Rd Mayfield West NSW 2304 Ph: 02 4014 2500 E: samples.newcastle@alsglobal.com
NOWRA 4/13 Geary Place North Nowra NSW 2541 Ph: 02 4423 2063 E: nowra@alsglobal.com
PERTH 10 Hod Way Malaga WA 6090 Ph: 08 9209 7655 E: samples.perth@alsglobal.com
SYDNEY 277-289 Woodpark Road Smithfield NSW 2164 Ph: 02 8784 8555 E: samples.sydney@alsglobal.com
TOWNSVILLE 14-15 Desma Court Bohle QLD 4818 Ph: 07 4796 0600 E: townsville.environmental@alsglobal.com
WOLLONGONG 99 Kenny Street Wollongong NSW 2500 Ph: 02 4225 3125 E: portkembla@alsglobal.com

CLIENT:	ERM
OFFICE:	Sydney
PROJECT:	0628507
ORDER NUMBER:	
PROJECT MANAGER:	Nicholas Gurbich
CONTACT PH:	0415 833 925
SAMPLER:	Taj Monsor
SAMPLER MOBILE:	0467 295 082
COC emailed to ALS? (YES / (NO)	EDD FORMAT (or default):
Email Reports to (will default to PM if no other addresses are listed):	
Email Invoice to (will default to PM if no other addresses are listed):	

TURNAROUND REQUIREMENTS: (Standard TAT may be longer for some tests e.g. Ultra Trace Organics)
☑ Standard TAT (List due date):
☐ Non Standard or urgent TAT (List due date):

ALS QUOTE NO.:

COC SEQUENCE NUMBER (Circle)
COC: 1 2 3 4 5 6 7
OF: 1 2 3 4 5 6 7

FOR LABORATORY USE ONLY (Circle)
Custody Seal Intact? Yes No N/A
Free ice / frozen ice bricks present upon receipt? Yes No N/A
Random Sample Temperature on Receipt: 6.2 °C
Other comment:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Taj Monsor	SOOTHO JAS		
DATE/TIME: 20/01/22	DATE/TIME: 20/1/22 1900	DATE/TIME:	DATE/TIME:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to attract suite price)
Where **Metals** are required, specify Total (unfiltered bottle required) or **Dissolved** (field filtered bottle required)

ALS USE	SAMPLE DETAILS MATRIX: SOLID (S) WATER (W)			CONTAINER INFORMATION		TRH & BTEXN	PAHs	VOCs	Heavy metals plus iron	Ammonia, nitrate, total nitrogen, total phosphorus	Major anions & cations	PFAS PFOS	Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL CONTAINERS								Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc.
1	S51	20-01-22	W			X	X	X	X	X	X	X	
2	S54												
3	S02-d												
4	S06												
5	S40-s												
6	S40-d												
7	SMW_BH120	19-01-22											
8	SMW_BH019												
9	D01-220119												
10	T01-220119												
11	R01-220119												minus nitrate analysis
12	R01-220120	20-01-22											minus nitrate analysis
				TOTAL									

Environmental Division
Sydney
Work Order Reference
ES2201979

Telephone : +61-2-8784 8555

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide/Cd Preserved; S = Sodium Hydroxide Preserved Plastic; AG = Amber Glass Unpreserved; AP - Airfreight Unpreserved Plastic
V = VOA Vial HCl Preserved; VB = VOA Vial Sodium Bisulphate Preserved; VS = VOA Vial Sulfuric Preserved; AV = Airfreight Unpreserved Vial SG = Sulfuric Preserved Amber Glass; H = HCl preserved Plastic; HS = HCl preserved Speciation bottle; SP = Sulfuric Preserved Plastic; F = Formaldehyde Preserved Glass; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; ASS = Plastic Bag for Acid Sulphate Soils; B = Unpreserved Bag.

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CHAIN OF CUSTODY

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MELBOURNE 2-4 Westall Road Springvale VIC 3171 Ph: 03 8549 9600 E: samples.melbourne@alsglobal.com

MUDGEE 27 Sydney Road Mudgee NSW 2850 Ph: 02 6372 6735 E: mudgee.mail@alsglobal.com

NEWCASTLE 5 Rosita Mallaroo Rd Maitland West NSW 2304 Ph: 02 4014 2500 E: samples.newcastle@alsglobal.com

ORANGE 4/13 Geary Place North Orange NSW 2541 Ph: 02 6428 2083 E: orange@alsglobal.com

PERTH 10 Hod Way Malaga WA 6090 Ph: 08 9209 7655 E: samples.perth@alsglobe.com

SYDNEY 277-289 Woodpark Road Smithfield NSW 2164 Ph: 02 8784 8555 E: samples.sydney@alsglobal.com

TOWNSVILLE 14-15 Desma Court Bohle QLD 4818 Ph: 07 4796 0600 E: townsville.environmental@alsglobal.com

WOLLONGONG 99 Kenny Street Wollongong NSW 2500 Ph: 02 4225 3125 E: portkembla@alsglobal.com

CLIENT: ERM	TURNAROUND REQUIREMENTS : ☑ Standard TAT (List due date):	FOR LABORATORY USE ONLY (Circle)	
OFFICE: Sydney	(Standard TAT may be longer for some tests e.g. Ultra Trace Organics) ☐ Non Standard or urgent TAT (List due date):	Custody Seal Intact?	Yes / No / N/A
PROJECT: 0628507	ALS QUOTE NO.:	Free ice / frozen ice bricks present upon receipt?	Yes / No / N/A
ORDER NUMBER:	COC SEQUENCE NUMBER (Circle) COC: 1 2 3 4 5 6 7 OF: 1 2 3 4 5 6 7	Random Sample Temperature on Receipt: 6.2 °C	
PROJECT MANAGER: Nicholas Garlick	CONTACT PH: 0415 833 92[illegible]	Other comment:	
SAMPLER: Tai, Marcus	SAMPLER MOBILE: 0467 295 382		
COC emailed to ALS? (YES / NO)	EDD FORMAT (or default):		
Email Reports to (will default to PM if no other addresses are listed):			
Email Invoice to (will default to PM if no other addresses are listed):			

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
T. Marcus	Scott Lee ALS		
DATE/TIME: 20/01/22	DATE/TIME: 20/1/22 1900	DATE/TIME:	DATE/TIME:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE	SAMPLE DETAILS MATRIX: SOLID (S) WATER (W)			CONTAINER INFORMATION		ANALYSIS REQUIRED Including SUITES (NB. Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required).							Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL CONTAINERS	TRH & BTEX-N	PAHs	VOCs	Heavy metals plus iron	Ammonia, nitrate, nitrite, total phosphorus	TDS	Major anions & cations	Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc.
13	Trip spike x 2	20-01-22	W			X	X	X	X	X	X	X	
14	Trip blank x2					X	X	X	X	X	X	X	
15	BUR-MW108					X	X	X	X	X	X	X	
16	BUR-BH121					X	X	X	X	X	X	X	
	[illegible]					X	X	X	X	X	X	X	
				TOTAL									

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Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide/Cd Preserved; S = Sodium Hydroxide Preserved Plastic; AG = Amber Glass Unpreserved; AP = Airfreight Unpreserved Plastic
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ALS Environmental

CERTIFICATE OF ANALYSIS

Work Order	: **ES2202047**	Page	: 1 of 23
Client	: **ENVIRONMENTAL RESOURCES MANAGEMENT (ERM)**	Laboratory	: Environmental Division Sydney
Contact	: NICHOLAS GRBICH	Contact	: Customer Services ES
Address	: LEVEL 15 309 KENT STREET SYDNEY NSW AUSTRALIA 2000	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: ----	Telephone	: +61-2-8784 8555
Project	: 0628507	Date Samples Received	: 21-Jan-2022 13:15
Order number	: ----	Date Analysis Commenced	: 24-Jan-2022
C-O-C number	: ----	Issue Date	: 01-Feb-2022 15:29
Sampler	: TAJ MONDON		
Site	: ----		
Quote number	: EN/114		
No. of samples received	: 24		
No. of samples analysed	: 23		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Ankit Joshi	Inorganic Chemist	Sydney Inorganics, Smithfield, NSW
Edwandy Fadjar	Organic Coordinator	Sydney Organics, Smithfield, NSW
Franco Lentini	LCMS Coordinator	Sydney Organics, Smithfield, NSW
Ivan Taylor	Analyst	Sydney Inorganics, Smithfield, NSW

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General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- EP075 (SIM): Where reported, Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) per the NEPM (2013) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a.h)anthracene (1.0), Benzo(g.h.i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero.
- EP075: Where reported, Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) per the NEPM (2013) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a.h)anthracene (1.0), Benzo(g.h.i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero.
- EP231X - Per- and Polyfluoroalkyl Substances (PFAS): Samples received in 20ml or 125ml bottles have been tested in accordance with the QSM5.3 compliant, NATA accredited method. 60mL or 250mL bottles have been tested to the legacy QSM 5.1 aligned, NATA accredited method.
- EP080: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EP074: Where reported, Total Trihalomethanes is the sum of the reported concentrations of all Trihalomethanes at or above the LOR.
- EP074: Where reported, Total Trimethylbenzenes is the sum of the reported concentrations of 1.2.3-Trimethylbenzene, 1.2.4-Trimethylbenzene and 1.3.5-Trimethylbenzene at or above the LOR.
- EP075(SIM): Where reported, Total Cresol is the sum of the reported concentrations of 2-Methylphenol and 3- & 4-Methylphenol at or above the LOR.
- EP231X: Positive result for various analytes on sample ES2202047_001,004-005,007,009-011,017,019,021 has been confirmed by re-extraction and re-analysis.
- EG035: Poor matrix spike recovery was obtained for Mercury on sample ES2201942 # 1. Confirmed by re-analysis.
- EK059G, EK057G: NOx and Nitrite results for sample no: 12 confirmed via re-analysis.
- EP075: Poor surrogate recovery due to sample heterogeneity. Confirmed by re-extraction and re-analysis.
- EP075(SIM): Particular sample phenolic surrogate not determined due to sample matrix interferences.
- EP080: Sample TRIP SPIKE contains volatile compounds spiked into the sample containers prior to dispatch from the laboratory. BTEXN compounds spiked at 20 ug/L.
- EP075: Where reported, 'Sum of PAH' is the sum of the USEPA 16 priority PAHs
- Sodium Adsorption Ratio (where reported): Where results for Na, Ca or Mg are <LOR, a concentration at half the reported LOR is incorporated into the SAR calculation. This represents a conservative approach for Na relative to the assumption that <LOR = zero concentration and a conservative approach for Ca & Mg relative to the assumption that <LOR is equivalent to the LOR concentration.
- EP231: Stable isotope enriched internal standards are added to samples prior to extraction. Target compounds have a direct analogous internal standard with the exception of PFPeS, PFHpA, PFDS, PFTrDA and 10:2 FTS. These compounds use an internal standard that is chemically related and has a retention time close to that of the target compound. The DQO for internal standard response is 50-150% of that established at initial calibration. PFOS is quantified using a certified, traceable standard consisting of linear and branched PFOS isomers. These practices are in line with recommendations in the National Environmental Management Plan for PFAS (Australian HEPA) and also conform to QSM 5.3 (US DoD) requirements.

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Analytical Results

Sub-Matrix: **WATER**
(Matrix: **WATER**)

Compound	CAS Number	LOR	Unit	Sample ID	SMW_BH051	S51	S54	S02_d	S06
				Sampling date / time	18-Jan-2022 00:00	20-Jan-2022 00:00	20-Jan-2022 00:00	20-Jan-2022 00:00	20-Jan-2022 00:00
					ES2202047-001	ES2202047-003	ES2202047-004	ES2202047-005	ES2202047-006
					Result	Result	Result	Result	Result
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L		<0.01	<0.01	<0.01	**0.02**	**0.04**
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L		<0.01	<0.01	<0.01	<0.01	**0.07**
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	<0.1
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	**0.09**
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L		<0.01	<0.01	<0.01	<0.01	**0.06**
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05
EP231C: Perfluoroalkyl Sulfonamides									
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05

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Analytical Results

Sub-Matrix: **WATER**
(Matrix: **WATER**)

Compound	CAS Number	LOR	Unit	Sample ID	SMW_BH051	S51	S54	S02_d	S06
				Sampling date / time	18-Jan-2022 00:00	20-Jan-2022 00:00	20-Jan-2022 00:00	20-Jan-2022 00:00	20-Jan-2022 00:00
					ES2202047-001	ES2202047-003	ES2202047-004	ES2202047-005	ES2202047-006
					Result	Result	Result	Result	Result
EP231C: Perfluoroalkyl Sulfonamides - Continued									
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L		**0.13**	<0.05	**0.12**	<0.05	**0.07**
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05
EP231P: PFAS Sums									
Sum of PFAS	----	0.01	µg/L		**0.13**	<0.01	**0.12**	**0.02**	**0.33**
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L		<0.01	<0.01	<0.01	**0.02**	**0.11**
Sum of PFAS (WA DER List)	----	0.01	µg/L		**0.13**	<0.01	**0.12**	**0.02**	**0.33**
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.02	%		**114**	**113**	**110**	**111**	**100**
13C8-PFOA	----	0.02	%		**101**	**99.8**	**103**	**104**	**98.6**

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Analytical Results

Sub-Matrix: **WATER**
(Matrix: **WATER**)

Compound	CAS Number	LOR	Unit	Sample ID	S40_d	S40_S	BUR_MW108	D01_220119	T01_220119
				Sampling date / time	20-Jan-2022 00:00	20-Jan-2022 00:00	20-Jan-2022 00:00	19-Jan-2022 00:00	19-Jan-2022 00:00
					ES2202047-007	ES2202047-008	ES2202047-009	ES2202047-010	ES2202047-011
					Result	Result	Result	Result	Result
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L		**0.02**	<0.01	<0.01	<0.01	<0.01
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L		<0.01	<0.01	<0.01	**0.02**	**0.02**
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	<0.1
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L		<0.01	<0.01	<0.01	<0.01	<0.01
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05
EP231C: Perfluoroalkyl Sulfonamides									
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05

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Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	S40_d	S40_S	BUR_MW108	D01_220119	T01_220119
				Sampling date / time	20-Jan-2022 00:00	20-Jan-2022 00:00	20-Jan-2022 00:00	19-Jan-2022 00:00	19-Jan-2022 00:00
Compound	CAS Number	LOR	Unit		ES2202047-007	ES2202047-008	ES2202047-009	ES2202047-010	ES2202047-011
					Result	Result	Result	Result	Result
EP231C: Perfluoroalkyl Sulfonamides - Continued									
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L		<0.05	<0.05	**0.07**	<0.05	<0.05
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05
EP231P: PFAS Sums									
Sum of PFAS	----	0.01	µg/L		**0.02**	<0.01	**0.07**	**0.02**	**0.02**
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L		**0.02**	<0.01	<0.01	**0.02**	**0.02**
Sum of PFAS (WA DER List)	----	0.01	µg/L		**0.02**	<0.01	**0.07**	**0.02**	**0.02**
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.02	%		**110**	**111**	**106**	**112**	**105**
13C8-PFOA	----	0.02	%		**108**	**102**	**101**	**104**	**99.7**

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Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	BUR_BH125	R01_220121	TRIP SPIKE	TRIP BLANK	SMW_BH120
			Sampling date / time	21-Jan-2022 00:00	21-Jan-2022 00:00	13-Jan-2022 00:00	13-Jan-2022 00:00	19-Jan-2022 00:00
Compound	CAS Number	LOR	Unit	ES2202047-012	ES2202047-013	ES2202047-014	ES2202047-015	ES2202047-016
				Result	Result	Result	Result	Result
EA015: Total Dissolved Solids dried at 180 ± 5 °C								
Total Dissolved Solids @180°C	----	10	mg/L	1350	----	----	----	----
ED037P: Alkalinity by PC Titrator								
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	98	----	----	----	----
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	43	----	----	----	----
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	<1	----	----	----	----
Total Alkalinity as CaCO3	----	1	mg/L	142	----	----	----	----
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA								
Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	274	----	----	----	----
ED045G: Chloride by Discrete Analyser								
Chloride	16887-00-6	1	mg/L	566	----	----	----	----
ED093F: Dissolved Major Cations								
Calcium	7440-70-2	1	mg/L	4	----	----	----	----
Magnesium	7439-95-4	1	mg/L	2	----	----	----	----
Sodium	7440-23-5	1	mg/L	456	----	----	----	----
Potassium	7440-09-7	1	mg/L	13	----	----	----	----
EG020F: Dissolved Metals by ICP-MS								
Arsenic	7440-38-2	0.001	mg/L	0.017	----	----	----	----
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	----	----	----	----
Chromium	7440-47-3	0.001	mg/L	<0.001	----	----	----	----
Copper	7440-50-8	0.001	mg/L	0.002	----	----	----	----
Lead	7439-92-1	0.001	mg/L	<0.001	----	----	----	----
Nickel	7440-02-0	0.001	mg/L	0.004	----	----	----	----
Zinc	7440-66-6	0.005	mg/L	<0.005	----	----	----	----
EG020T: Total Metals by ICP-MS								
Arsenic	7440-38-2	0.001	mg/L	----	<0.001	----	----	----
Cadmium	7440-43-9	0.0001	mg/L	----	<0.0001	----	----	----
Chromium	7440-47-3	0.001	mg/L	----	<0.001	----	----	----
Copper	7440-50-8	0.001	mg/L	----	<0.001	----	----	----
Lead	7439-92-1	0.001	mg/L	----	<0.001	----	----	----
Nickel	7440-02-0	0.001	mg/L	----	<0.001	----	----	----
Zinc	7440-66-6	0.005	mg/L	----	<0.005	----	----	----
EG035F: Dissolved Mercury by FIMS								
Mercury	7439-97-6	0.0001	mg/L	<0.0001	----	----	----	----
EG035T: Total Recoverable Mercury by FIMS								

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Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	BUR_BH125	R01_220121	TRIP SPIKE	TRIP BLANK	SMW_BH120
			Sampling date / time	21-Jan-2022 00:00	21-Jan-2022 00:00	13-Jan-2022 00:00	13-Jan-2022 00:00	19-Jan-2022 00:00
Compound	CAS Number	LOR	Unit	ES2202047-012	ES2202047-013	ES2202047-014	ES2202047-015	ES2202047-016
				Result	Result	Result	Result	Result
EG035T: Total Recoverable Mercury by FIMS - Continued								
Mercury	7439-97-6	0.0001	mg/L	----	<0.0001	----	----	----
EK055G: Ammonia as N by Discrete Analyser								
Ammonia as N	7664-41-7	0.01	mg/L	**1.48**	<0.01	----	----	----
EK057G: Nitrite as N by Discrete Analyser								
Nitrite as N	14797-65-0	0.01	mg/L	**0.26**	----	----	----	----
EK058G: Nitrate as N by Discrete Analyser								
Nitrate as N	14797-55-8	0.01	mg/L	<0.01	----	----	----	----
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser								
Nitrite + Nitrate as N	----	0.01	mg/L	**0.10**	<0.01	----	----	----
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser								
Total Kjeldahl Nitrogen as N	----	0.1	mg/L	**3.8**	<0.1	----	----	----
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser								
^ Total Nitrogen as N	----	0.1	mg/L	**3.9**	<0.1	----	----	----
EK067G: Total Phosphorus as P by Discrete Analyser								
Total Phosphorus as P	----	0.01	mg/L	**1.13**	<0.01	----	----	----
EK071G: Reactive Phosphorus as P by discrete analyser								
Reactive Phosphorus as P	14265-44-2	0.01	mg/L	<0.01	----	----	----	----
EN055: Ionic Balance								
ø Total Anions	----	0.01	meq/L	**24.5**	----	----	----	----
ø Total Cations	----	0.01	meq/L	**20.5**	----	----	----	----
ø Ionic Balance	----	0.01	%	**8.83**	----	----	----	----
EP074A: Monocyclic Aromatic Hydrocarbons								
Styrene	100-42-5	5	µg/L	<5	<5	----	----	----
Isopropylbenzene	98-82-8	5	µg/L	<5	<5	----	----	----
n-Propylbenzene	103-65-1	5	µg/L	<5	<5	----	----	----
1.3.5-Trimethylbenzene	108-67-8	5	µg/L	<5	<5	----	----	----
sec-Butylbenzene	135-98-8	5	µg/L	<5	<5	----	----	----
1.2.4-Trimethylbenzene	95-63-6	5	µg/L	<5	<5	----	----	----
tert-Butylbenzene	98-06-6	5	µg/L	<5	<5	----	----	----
p-Isopropyltoluene	99-87-6	5	µg/L	<5	<5	----	----	----
n-Butylbenzene	104-51-8	5	µg/L	<5	<5	----	----	----
EP074B: Oxygenated Compounds								
Vinyl Acetate	108-05-4	50	µg/L	<50	<50	----	----	----

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Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	BUR_BH125	R01_220121	TRIP SPIKE	TRIP BLANK	SMW_BH120
			Sampling date / time	21-Jan-2022 00:00	21-Jan-2022 00:00	13-Jan-2022 00:00	13-Jan-2022 00:00	19-Jan-2022 00:00
Compound	CAS Number	LOR	Unit	ES2202047-012	ES2202047-013	ES2202047-014	ES2202047-015	ES2202047-016
				Result	Result	Result	Result	Result
EP074B: Oxygenated Compounds - Continued								
2-Butanone (MEK)	78-93-3	50	µg/L	<50	<50	----	----	----
4-Methyl-2-pentanone (MIBK)	108-10-1	50	µg/L	<50	<50	----	----	----
2-Hexanone (MBK)	591-78-6	50	µg/L	<50	<50	----	----	----
EP074C: Sulfonated Compounds								
Carbon disulfide	75-15-0	5	µg/L	<5	<5	----	----	----
EP074D: Fumigants								
2.2-Dichloropropane	594-20-7	5	µg/L	<5	<5	----	----	----
1.2-Dichloropropane	78-87-5	5	µg/L	<5	<5	----	----	----
cis-1.3-Dichloropropylene	10061-01-5	5	µg/L	<5	<5	----	----	----
trans-1.3-Dichloropropylene	10061-02-6	5	µg/L	<5	<5	----	----	----
1.2-Dibromoethane (EDB)	106-93-4	5	µg/L	<5	<5	----	----	----
EP074E: Halogenated Aliphatic Compounds								
Dichlorodifluoromethane	75-71-8	50	µg/L	<50	<50	----	----	----
Chloromethane	74-87-3	50	µg/L	<50	<50	----	----	----
Vinyl chloride	75-01-4	50	µg/L	<50	<50	----	----	----
Bromomethane	74-83-9	50	µg/L	<50	<50	----	----	----
Chloroethane	75-00-3	50	µg/L	<50	<50	----	----	----
Trichlorofluoromethane	75-69-4	50	µg/L	<50	<50	----	----	----
1.1-Dichloroethene	75-35-4	5	µg/L	<5	<5	----	----	----
Iodomethane	74-88-4	5	µg/L	<5	<5	----	----	----
trans-1.2-Dichloroethene	156-60-5	5	µg/L	<5	<5	----	----	----
1.1-Dichloroethane	75-34-3	5	µg/L	<5	<5	----	----	----
cis-1.2-Dichloroethene	156-59-2	5	µg/L	<5	<5	----	----	----
1.1.1-Trichloroethane	71-55-6	5	µg/L	<5	<5	----	----	----
1.1-Dichloropropylene	563-58-6	5	µg/L	<5	<5	----	----	----
Carbon Tetrachloride	56-23-5	5	µg/L	<5	<5	----	----	----
1.2-Dichloroethane	107-06-2	5	µg/L	<5	<5	----	----	----
Trichloroethene	79-01-6	5	µg/L	<5	<5	----	----	----
Dibromomethane	74-95-3	5	µg/L	<5	<5	----	----	----
1.1.2-Trichloroethane	79-00-5	5	µg/L	<5	<5	----	----	----
1.3-Dichloropropane	142-28-9	5	µg/L	<5	<5	----	----	----
Tetrachloroethene	127-18-4	5	µg/L	<5	<5	----	----	----
1.1.1.2-Tetrachloroethane	630-20-6	5	µg/L	<5	<5	----	----	----
trans-1.4-Dichloro-2-butene	110-57-6	5	µg/L	<5	<5	----	----	----

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Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	BUR_BH125	R01_220121	TRIP SPIKE	TRIP BLANK	SMW_BH120
			Sampling date / time	21-Jan-2022 00:00	21-Jan-2022 00:00	13-Jan-2022 00:00	13-Jan-2022 00:00	19-Jan-2022 00:00
Compound	CAS Number	LOR	Unit	ES2202047-012	ES2202047-013	ES2202047-014	ES2202047-015	ES2202047-016
				Result	Result	Result	Result	Result
EP074E: Halogenated Aliphatic Compounds - Continued								
cis-1.4-Dichloro-2-butene	1476-11-5	5	µg/L	<5	<5	----	----	----
1.1.2.2-Tetrachloroethane	79-34-5	5	µg/L	<5	<5	----	----	----
1.2.3-Trichloropropane	96-18-4	5	µg/L	<5	<5	----	----	----
Pentachloroethane	76-01-7	5	µg/L	<5	<5	----	----	----
1.2-Dibromo-3-chloropropane	96-12-8	5	µg/L	<5	<5	----	----	----
EP074F: Halogenated Aromatic Compounds								
Chlorobenzene	108-90-7	5	µg/L	<5	<5	----	----	----
Bromobenzene	108-86-1	5	µg/L	<5	<5	----	----	----
2-Chlorotoluene	95-49-8	5	µg/L	<5	<5	----	----	----
4-Chlorotoluene	106-43-4	5	µg/L	<5	<5	----	----	----
1.2.3-Trichlorobenzene	87-61-6	5	µg/L	<5	<5	----	----	----
EP074G: Trihalomethanes								
Chloroform	67-66-3	5	µg/L	7	<5	----	----	----
Bromodichloromethane	75-27-4	5	µg/L	<5	<5	----	----	----
Dibromochloromethane	124-48-1	5	µg/L	<5	<5	----	----	----
Bromoform	75-25-2	5	µg/L	<5	<5	----	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	1.0	µg/L	<1.0	<1.0	----	----	----
Acenaphthylene	208-96-8	1.0	µg/L	<1.0	<1.0	----	----	----
Acenaphthene	83-32-9	1.0	µg/L	<1.0	<1.0	----	----	----
Fluorene	86-73-7	1.0	µg/L	<1.0	<1.0	----	----	----
Phenanthrene	85-01-8	1.0	µg/L	<1.0	<1.0	----	----	----
Anthracene	120-12-7	1.0	µg/L	<1.0	<1.0	----	----	----
Fluoranthene	206-44-0	1.0	µg/L	<1.0	<1.0	----	----	----
Pyrene	129-00-0	1.0	µg/L	<1.0	<1.0	----	----	----
Benz(a)anthracene	56-55-3	1.0	µg/L	<1.0	<1.0	----	----	----
Chrysene	218-01-9	1.0	µg/L	<1.0	<1.0	----	----	----
Benzo(b+j)fluoranthene	205-99-2 205-82-3	1.0	µg/L	<1.0	<1.0	----	----	----
Benzo(k)fluoranthene	207-08-9	1.0	µg/L	<1.0	<1.0	----	----	----
Benzo(a)pyrene	50-32-8	0.5	µg/L	<0.5	<0.5	----	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	1.0	µg/L	<1.0	<1.0	----	----	----
Dibenz(a.h)anthracene	53-70-3	1.0	µg/L	<1.0	<1.0	----	----	----
Benzo(g.h.i)perylene	191-24-2	1.0	µg/L	<1.0	<1.0	----	----	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	µg/L	<0.5	<0.5	----	----	----

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Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	BUR_BH125	R01_220121	TRIP SPIKE	TRIP BLANK	SMW_BH120
			Sampling date / time	21-Jan-2022 00:00	21-Jan-2022 00:00	13-Jan-2022 00:00	13-Jan-2022 00:00	19-Jan-2022 00:00
Compound	CAS Number	LOR	Unit	ES2202047-012	ES2202047-013	ES2202047-014	ES2202047-015	ES2202047-016
				Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued								
^ Benzo(a)pyrene TEQ (zero)	----	0.5	µg/L	<0.5	<0.5	----	----	----
EP075A: Phenolic Compounds								
Phenol	108-95-2	2	µg/L	<2	<2	----	----	----
2-Chlorophenol	95-57-8	2	µg/L	<2	<2	----	----	----
2-Methylphenol	95-48-7	2	µg/L	<2	<2	----	----	----
3- & 4-Methylphenol	1319-77-3	4	µg/L	<4	<4	----	----	----
2-Nitrophenol	88-75-5	2	µg/L	<2	<2	----	----	----
2.4-Dimethylphenol	105-67-9	2	µg/L	<2	<2	----	----	----
2.4-Dichlorophenol	120-83-2	2	µg/L	<2	<2	----	----	----
2.6-Dichlorophenol	87-65-0	2	µg/L	<2	<2	----	----	----
4-Chloro-3-methylphenol	59-50-7	2	µg/L	<2	<2	----	----	----
2.4.6-Trichlorophenol	88-06-2	2	µg/L	<2	<2	----	----	----
2.4.5-Trichlorophenol	95-95-4	2	µg/L	<2	<2	----	----	----
Pentachlorophenol	87-86-5	4	µg/L	<4	<4	----	----	----
EP075B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	2	µg/L	<2	<2	----	----	----
2-Methylnaphthalene	91-57-6	2	µg/L	<2	<2	----	----	----
2-Chloronaphthalene	91-58-7	2	µg/L	<2	<2	----	----	----
Acenaphthylene	208-96-8	2	µg/L	<2	<2	----	----	----
Acenaphthene	83-32-9	2	µg/L	<2	<2	----	----	----
Fluorene	86-73-7	2	µg/L	<2	<2	----	----	----
Phenanthrene	85-01-8	2	µg/L	<2	<2	----	----	----
Anthracene	120-12-7	2	µg/L	<2	<2	----	----	----
Fluoranthene	206-44-0	2	µg/L	<2	<2	----	----	----
Pyrene	129-00-0	2	µg/L	<2	<2	----	----	----
N-2-Fluorenyl Acetamide	53-96-3	2	µg/L	<2	<2	----	----	----
Benz(a)anthracene	56-55-3	2	µg/L	<2	<2	----	----	----
Chrysene	218-01-9	2	µg/L	<2	<2	----	----	----
Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	4	µg/L	<4	<4	----	----	----
7.12-Dimethylbenz(a)anthracene	57-97-6	2	µg/L	<2	<2	----	----	----
Benzo(a)pyrene	50-32-8	2	µg/L	<2	<2	----	----	----
3-Methylcholanthrene	56-49-5	2	µg/L	<2	<2	----	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	2	µg/L	<2	<2	----	----	----
Dibenz(a.h)anthracene	53-70-3	2	µg/L	<2	<2	----	----	----

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Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	BUR_BH125	R01_220121	TRIP SPIKE	TRIP BLANK	SMW_BH120
			Sampling date / time	21-Jan-2022 00:00	21-Jan-2022 00:00	13-Jan-2022 00:00	13-Jan-2022 00:00	19-Jan-2022 00:00
Compound	CAS Number	LOR	Unit	ES2202047-012	ES2202047-013	ES2202047-014	ES2202047-015	ES2202047-016
				Result	Result	Result	Result	Result
EP075B: Polynuclear Aromatic Hydrocarbons - Continued								
Benzo(g.h.i)perylene	191-24-2	2	µg/L	<2	<2	----	----	----
^ Sum of PAHs	----	2	µg/L	<2	<2	----	----	----
^ Benzo(a)pyrene TEQ (zero)	----	2	µg/L	<2	<2	----	----	----
EP075C: Phthalate Esters								
Dimethyl phthalate	131-11-3	2	µg/L	<2	<2	----	----	----
Diethyl phthalate	84-66-2	2	µg/L	<2	<2	----	----	----
Di-n-butyl phthalate	84-74-2	2	µg/L	<2	<2	----	----	----
Butyl benzyl phthalate	85-68-7	2	µg/L	<2	<2	----	----	----
bis(2-ethylhexyl) phthalate	117-81-7	10	µg/L	<10	<10	----	----	----
Di-n-octylphthalate	117-84-0	2	µg/L	<2	<2	----	----	----
EP075D: Nitrosamines								
N-Nitrosomethylethylamine	10595-95-6	2	µg/L	<2	<2	----	----	----
N-Nitrosodiethylamine	55-18-5	2	µg/L	<2	<2	----	----	----
N-Nitrosopyrrolidine	930-55-2	4	µg/L	<4	<4	----	----	----
N-Nitrosomorpholine	59-89-2	2	µg/L	<2	<2	----	----	----
N-Nitrosodi-n-propylamine	621-64-7	2	µg/L	<2	<2	----	----	----
N-Nitrosopiperidine	100-75-4	2	µg/L	<2	<2	----	----	----
N-Nitrosodibutylamine	924-16-3	2	µg/L	<2	<2	----	----	----
N-Nitrosodiphenyl & Diphenylamine	86-30-6 122-39-4	4	µg/L	<4	<4	----	----	----
Methapyrilene	91-80-5	2	µg/L	<2	<2	----	----	----
EP075E: Nitroaromatics and Ketones								
2-Picoline	109-06-8	2	µg/L	<2	<2	----	----	----
Acetophenone	98-86-2	2	µg/L	<2	<2	----	----	----
Nitrobenzene	98-95-3	2	µg/L	<2	<2	----	----	----
Isophorone	78-59-1	2	µg/L	<2	<2	----	----	----
2.6-Dinitrotoluene	606-20-2	4	µg/L	<4	<4	----	----	----
2.4-Dinitrotoluene	121-14-2	4	µg/L	<4	<4	----	----	----
1-Naphthylamine	134-32-7	2	µg/L	<2	<2	----	----	----
4-Nitroquinoline-N-oxide	56-57-5	2	µg/L	<2	<2	----	----	----
5-Nitro-o-toluidine	99-55-8	2	µg/L	<2	<2	----	----	----
Azobenzene	103-33-3	2	µg/L	<2	<2	----	----	----
1.3.5-Trinitrobenzene	99-35-4	2	µg/L	<2	<2	----	----	----
Phenacetin	62-44-2	2	µg/L	<2	<2	----	----	----

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Analytical Results

Sub-Matrix: **WATER**
(Matrix: **WATER**)

Compound	CAS Number	LOR	Unit	Sample ID	BUR_BH125	R01_220121	TRIP SPIKE	TRIP BLANK	SMW_BH120
				Sampling date / time	21-Jan-2022 00:00	21-Jan-2022 00:00	13-Jan-2022 00:00	13-Jan-2022 00:00	19-Jan-2022 00:00
					ES2202047-012	ES2202047-013	ES2202047-014	ES2202047-015	ES2202047-016
					Result	Result	Result	Result	Result
EP075E: Nitroaromatics and Ketones - Continued									
4-Aminobiphenyl	92-67-1	2	µg/L		<2	<2	----	----	----
Pentachloronitrobenzene	82-68-8	2	µg/L		<2	<2	----	----	----
Pronamide	23950-58-5	2	µg/L		<2	<2	----	----	----
Dimethylaminoazobenzene	60-11-7	2	µg/L		<2	<2	----	----	----
Chlorobenzilate	510-15-6	2	µg/L		<2	<2	----	----	----
EP075F: Haloethers									
Bis(2-chloroethyl) ether	111-44-4	2	µg/L		<2	<2	----	----	----
Bis(2-chloroethoxy) methane	111-91-1	2	µg/L		<2	<2	----	----	----
4-Chlorophenyl phenyl ether	7005-72-3	2	µg/L		<2	<2	----	----	----
4-Bromophenyl phenyl ether	101-55-3	2	µg/L		<2	<2	----	----	----
EP075G: Chlorinated Hydrocarbons									
1.3-Dichlorobenzene	541-73-1	2	µg/L		<2	<2	----	----	----
1.4-Dichlorobenzene	106-46-7	2	µg/L		<2	<2	----	----	----
1.2-Dichlorobenzene	95-50-1	2	µg/L		<2	<2	----	----	----
Hexachloroethane	67-72-1	2	µg/L		<2	<2	----	----	----
1.2.4-Trichlorobenzene	120-82-1	2	µg/L		<2	<2	----	----	----
Hexachloropropylene	1888-71-7	2	µg/L		<2	<2	----	----	----
Hexachlorobutadiene	87-68-3	2	µg/L		<2	<2	----	----	----
Hexachlorocyclopentadiene	77-47-4	10	µg/L		<10	<10	----	----	----
Pentachlorobenzene	608-93-5	2	µg/L		<2	<2	----	----	----
Hexachlorobenzene (HCB)	118-74-1	4	µg/L		<4	<4	----	----	----
EP075H: Anilines and Benzidines									
Aniline	62-53-3	2	µg/L		<2	<2	----	----	----
4-Chloroaniline	106-47-8	2	µg/L		<2	<2	----	----	----
2-Nitroaniline	88-74-4	4	µg/L		<4	<4	----	----	----
3-Nitroaniline	99-09-2	4	µg/L		<4	<4	----	----	----
Dibenzofuran	132-64-9	2	µg/L		<2	<2	----	----	----
4-Nitroaniline	100-01-6	2	µg/L		<2	<2	----	----	----
Carbazole	86-74-8	2	µg/L		<2	<2	----	----	----
3.3`-Dichlorobenzidine	91-94-1	2	µg/L		<2	<2	----	----	----
EP075I: Organochlorine Pesticides									
alpha-BHC	319-84-6	2	µg/L		<2	<2	----	----	----
beta-BHC	319-85-7	2	µg/L		<2	<2	----	----	----
gamma-BHC	58-89-9	2	µg/L		<2	<2	----	----	----

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Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	BUR_BH125	R01_220121	TRIP SPIKE	TRIP BLANK	SMW_BH120
			Sampling date / time	21-Jan-2022 00:00	21-Jan-2022 00:00	13-Jan-2022 00:00	13-Jan-2022 00:00	19-Jan-2022 00:00
Compound	CAS Number	LOR	Unit	ES2202047-012	ES2202047-013	ES2202047-014	ES2202047-015	ES2202047-016
				Result	Result	Result	Result	Result
EP075I: Organochlorine Pesticides - Continued								
delta-BHC	319-86-8	2	µg/L	<2	<2	----	----	----
Heptachlor	76-44-8	2	µg/L	<2	<2	----	----	----
Aldrin	309-00-2	2	µg/L	<2	<2	----	----	----
Heptachlor epoxide	1024-57-3	2	µg/L	<2	<2	----	----	----
alpha-Endosulfan	959-98-8	2	µg/L	<2	<2	----	----	----
4.4`-DDE	72-55-9	2	µg/L	<2	<2	----	----	----
Dieldrin	60-57-1	2	µg/L	<2	<2	----	----	----
Endrin	72-20-8	2	µg/L	<2	<2	----	----	----
beta-Endosulfan	33213-65-9	2	µg/L	<2	<2	----	----	----
4.4`-DDD	72-54-8	2	µg/L	<2	<2	----	----	----
Endosulfan sulfate	1031-07-8	2	µg/L	<2	<2	----	----	----
4.4`-DDT	50-29-3	4	µg/L	<4	<4	----	----	----
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	4	µg/L	<4	<4	----	----	----
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-29-3	4	µg/L	<4	<4	----	----	----
EP075J: Organophosphorus Pesticides								
Dichlorvos	62-73-7	2	µg/L	<2	<2	----	----	----
Dimethoate	60-51-5	2	µg/L	<2	<2	----	----	----
Diazinon	333-41-5	2	µg/L	<2	<2	----	----	----
Chlorpyrifos-methyl	5598-13-0	2	µg/L	<2	<2	----	----	----
Malathion	121-75-5	2	µg/L	<2	<2	----	----	----
Fenthion	55-38-9	2	µg/L	<2	<2	----	----	----
Chlorpyrifos	2921-88-2	2	µg/L	<2	<2	----	----	----
Pirimphos-ethyl	23505-41-1	2	µg/L	<2	<2	----	----	----
Chlorfenvinphos	470-90-6	2	µg/L	<2	<2	----	----	----
Prothiofos	34643-46-4	2	µg/L	<2	<2	----	----	----
Ethion	563-12-2	2	µg/L	<2	<2	----	----	----
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	20	µg/L	<20	<20	----	<20	----
C10 - C14 Fraction	----	50	µg/L	**290**	<50	----	----	----
C15 - C28 Fraction	----	100	µg/L	**430**	<100	----	----	----
C29 - C36 Fraction	----	50	µg/L	<50	<50	----	----	----
^ C10 - C36 Fraction (sum)	----	50	µg/L	**720**	<50	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								

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Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	BUR_BH125	R01_220121	TRIP SPIKE	TRIP BLANK	SMW_BH120
				Sampling date / time	21-Jan-2022 00:00	21-Jan-2022 00:00	13-Jan-2022 00:00	13-Jan-2022 00:00	19-Jan-2022 00:00
Compound	CAS Number	LOR	Unit		ES2202047-012	ES2202047-013	ES2202047-014	ES2202047-015	ES2202047-016
					Result	Result	Result	Result	Result
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued									
C6 - C10 Fraction	C6_C10	20	µg/L		<20	<20	----	<20	----
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	µg/L		<20	<20	----	<20	----
>C10 - C16 Fraction	----	100	µg/L		570	<100	----	----	----
>C16 - C34 Fraction	----	100	µg/L		190	<100	----	----	----
>C34 - C40 Fraction	----	100	µg/L		<100	<100	----	----	----
^ >C10 - C40 Fraction (sum)	----	100	µg/L		760	<100	----	----	----
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	100	µg/L		570	<100	----	----	----
EP080: BTEXN									
Benzene	71-43-2	1	µg/L		<1	<1	16	<1	----
Toluene	108-88-3	2	µg/L		<2	<2	16	<2	----
Ethylbenzene	100-41-4	2	µg/L		<2	<2	15	<2	----
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L		<2	<2	15	<2	----
ortho-Xylene	95-47-6	2	µg/L		<2	<2	16	<2	----
^ Total Xylenes	----	2	µg/L		<2	<2	31	<2	----
^ Sum of BTEX	----	1	µg/L		<1	<1	78	<1	----
Naphthalene	91-20-3	5	µg/L		<5	<5	18	<5	----
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L		<0.02	<0.02	----	----	<0.02
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L		<0.02	<0.02	----	----	<0.02
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L		<0.01	<0.01	----	----	<0.01
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L		<0.02	<0.02	----	----	<0.02
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L		<0.01	<0.01	----	----	<0.01
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L		<0.02	<0.02	----	----	<0.02
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L		<0.1	<0.1	----	----	<0.1
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L		<0.02	<0.02	----	----	<0.02
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L		<0.02	<0.02	----	----	<0.02

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Analytical Results

Sub-Matrix: **WATER**
(Matrix: **WATER**)

Compound	CAS Number	LOR	Unit	Sample ID	BUR_BH125	R01_220121	TRIP SPIKE	TRIP BLANK	SMW_BH120
				Sampling date / time	21-Jan-2022 00:00	21-Jan-2022 00:00	13-Jan-2022 00:00	13-Jan-2022 00:00	19-Jan-2022 00:00
					ES2202047-012	ES2202047-013	ES2202047-014	ES2202047-015	ES2202047-016
					Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids - Continued									
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L		<0.02	<0.02	----	----	<0.02
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L		<0.01	<0.01	----	----	<0.01
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L		<0.02	<0.02	----	----	<0.02
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L		<0.02	<0.02	----	----	<0.02
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L		<0.02	<0.02	----	----	<0.02
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L		<0.02	<0.02	----	----	<0.02
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L		<0.02	<0.02	----	----	<0.02
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L		<0.05	<0.05	----	----	<0.05
EP231C: Perfluoroalkyl Sulfonamides									
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L		<0.02	<0.02	----	----	<0.02
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L		<0.05	<0.05	----	----	<0.05
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L		<0.05	<0.05	----	----	<0.05
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L		<0.05	<0.05	----	----	<0.05
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L		<0.05	<0.05	----	----	<0.05
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L		<0.02	<0.02	----	----	<0.02
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L		<0.02	<0.02	----	----	<0.02
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L		<0.05	<0.05	----	----	<0.05
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L		<0.05	<0.05	----	----	<0.05
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L		<0.05	<0.05	----	----	<0.05

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Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	BUR_BH125	R01_220121	TRIP SPIKE	TRIP BLANK	SMW_BH120
			Sampling date / time	21-Jan-2022 00:00	21-Jan-2022 00:00	13-Jan-2022 00:00	13-Jan-2022 00:00	19-Jan-2022 00:00
Compound	CAS Number	LOR	Unit	ES2202047-012	ES2202047-013	ES2202047-014	ES2202047-015	ES2202047-016
				Result	Result	Result	Result	Result
EP231D: (n:2) Fluorotelomer Sulfonic Acids - Continued								
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	----	----	<0.05
EP231P: PFAS Sums								
Sum of PFAS	----	0.01	µg/L	<0.01	<0.01	----	----	<0.01
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	----	----	<0.01
Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.01	<0.01	----	----	<0.01
EP074S: VOC Surrogates								
1.2-Dichloroethane-D4	17060-07-0	5	%	114	111	----	----	----
Toluene-D8	2037-26-5	5	%	128	110	----	----	----
4-Bromofluorobenzene	460-00-4	5	%	119	106	----	----	----
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	1.0	%	Not Determined	21.0	----	----	----
2-Chlorophenol-D4	93951-73-6	1.0	%	Not Determined	53.9	----	----	----
2.4.6-Tribromophenol	118-79-6	1.0	%	Not Determined	50.2	----	----	----
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	1.0	%	66.1	71.4	----	----	----
Anthracene-d10	1719-06-8	1.0	%	89.0	94.5	----	----	----
4-Terphenyl-d14	1718-51-0	1.0	%	79.4	84.5	----	----	----
EP075S: Acid Extractable Surrogates								
2-Fluorophenol	367-12-4	2	%	Not Determined	44.2	----	----	----
Phenol-d6	13127-88-3	2	%	Not Determined	30.2	----	----	----
2-Chlorophenol-D4	93951-73-6	2	%	Not Determined	62.8	----	----	----
2.4.6-Tribromophenol	118-79-6	2	%	Not Determined	69.1	----	----	----
EP075T: Base/Neutral Extractable Surrogates								
Nitrobenzene-D5	4165-60-0	2	%	48.1	61.6	----	----	----
1.2-Dichlorobenzene-D4	2199-69-1	2	%	45.0	56.6	----	----	----
2-Fluorobiphenyl	321-60-8	2	%	55.5	64.9	----	----	----
Anthracene-d10	1719-06-8	2	%	89.7	99.5	----	----	----
4-Terphenyl-d14	1718-51-0	2	%	73.3	83.5	----	----	----
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	2	%	114	111	119	102	----
Toluene-D8	2037-26-5	2	%	121	104	110	109	----
4-Bromofluorobenzene	460-00-4	2	%	119	106	110	109	----

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Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	BUR_BH125	R01_220121	TRIP SPIKE	TRIP BLANK	SMW_BH120
				Sampling date / time	21-Jan-2022 00:00	21-Jan-2022 00:00	13-Jan-2022 00:00	13-Jan-2022 00:00	19-Jan-2022 00:00
Compound	CAS Number	LOR	Unit		ES2202047-012	ES2202047-013	ES2202047-014	ES2202047-015	ES2202047-016
					Result	Result	Result	Result	Result
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.02	%		104	108	----	----	109
13C8-PFOA	----	0.02	%		101	101	----	----	103

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Analytical Results

Sub-Matrix: **WATER**
(Matrix: **WATER**)

Compound	CAS Number	LOR	Unit	Sample ID	SMW_BH019	R01_220119	SMW_BH038	SMW_BH035	SMW_BH035_S
				Sampling date / time	19-Jan-2022 00:00	19-Jan-2022 00:00	19-Jan-2022 00:00	18-Jan-2022 00:00	18-Jan-2022 00:00
					ES2202047-017	ES2202047-018	ES2202047-019	ES2202047-020	ES2202047-021
					Result	Result	Result	Result	Result
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L		<0.01	<0.01	**0.01**	<0.01	**0.02**
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L		**0.02**	<0.01	<0.01	<0.01	<0.01
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	<0.1
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L		<0.02	<0.02	**0.03**	<0.02	<0.02
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L		<0.02	<0.02	**0.10**	<0.02	<0.02
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L		<0.01	<0.01	**0.02**	<0.01	<0.01
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05
EP231C: Perfluoroalkyl Sulfonamides									
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05

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Analytical Results

Sub-Matrix: **WATER**
(Matrix: **WATER**)

Compound	CAS Number	LOR	Unit	Sample ID	SMW_BH019	R01_220119	SMW_BH038	SMW_BH035	SMW_BH035_S
				Sampling date / time	19-Jan-2022 00:00	19-Jan-2022 00:00	19-Jan-2022 00:00	18-Jan-2022 00:00	18-Jan-2022 00:00
					ES2202047-017	ES2202047-018	ES2202047-019	ES2202047-020	ES2202047-021
					Result	Result	Result	Result	Result
EP231C: Perfluoroalkyl Sulfonamides - Continued									
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L		<0.05	<0.05	**0.48**	<0.05	<0.05
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05
EP231P: PFAS Sums									
Sum of PFAS	----	0.01	µg/L		**0.02**	<0.01	**0.64**	<0.01	**0.02**
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L		**0.02**	<0.01	**0.01**	<0.01	**0.02**
Sum of PFAS (WA DER List)	----	0.01	µg/L		**0.02**	<0.01	**0.64**	<0.01	**0.02**
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.02	%		**117**	**104**	**110**	**105**	**108**
13C8-PFOA	----	0.02	%		**102**	**101**	**106**	**100**	**102**

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Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	R01_220118	R01_220117	R01_220120	----	----
				Sampling date / time	18-Jan-2022 00:00	17-Jan-2022 00:00	20-Jan-2022 00:00	---	---
Compound	CAS Number	LOR	Unit		ES2202047-022	ES2202047-023	ES2202047-024	-----	-----
					Result	Result	Result	---	---
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L		<0.01	<0.01	<0.01	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L		<0.01	<0.01	<0.01	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L		<0.02	<0.02	<0.02	----	----
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L		<0.1	<0.1	<0.1	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L		<0.01	<0.01	<0.01	----	----
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L		<0.05	<0.05	<0.05	----	----
EP231C: Perfluoroalkyl Sulfonamides									
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L		<0.02	<0.02	<0.02	----	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L		<0.05	<0.05	<0.05	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L		<0.05	<0.05	<0.05	----	----

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Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	R01_220118	R01_220117	R01_220120	-----	-----
				Sampling date / time	18-Jan-2022 00:00	17-Jan-2022 00:00	20-Jan-2022 00:00	---	---
Compound	CAS Number	LOR	Unit		ES2202047-022	ES2202047-023	ES2202047-024	-----	-----
					Result	Result	Result	---	---
EP231C: Perfluoroalkyl Sulfonamides - Continued									
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L		<0.05	<0.05	<0.05	---	---
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L		<0.05	<0.05	<0.05	---	---
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L		<0.02	<0.02	<0.02	---	---
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L		<0.02	<0.02	<0.02	---	---
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L		<0.05	<0.05	<0.05	---	---
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L		<0.05	<0.05	<0.05	---	---
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L		<0.05	<0.05	<0.05	---	---
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L		<0.05	<0.05	<0.05	---	---
EP231P: PFAS Sums									
Sum of PFAS	---	0.01	µg/L		<0.01	<0.01	<0.01	---	---
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L		<0.01	<0.01	<0.01	---	---
Sum of PFAS (WA DER List)	---	0.01	µg/L		<0.01	<0.01	<0.01	---	---
EP231S: PFAS Surrogate									
13C4-PFOS	---	0.02	%		107	98.2	107	---	---
13C8-PFOA	---	0.02	%		98.3	93.4	96.7	---	---

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Surrogate Control Limits

Sub-Matrix: **WATER**

Compound	CAS Number	Recovery Limits (%) Low	High
EP074S: VOC Surrogates			
1.2-Dichloroethane-D4	17060-07-0	78	133
Toluene-D8	2037-26-5	79	129
4-Bromofluorobenzene	460-00-4	81	124
EP075(SIM)S: Phenolic Compound Surrogates			
Phenol-d6	13127-88-3	10	44
2-Chlorophenol-D4	93951-73-6	14	94
2.4.6-Tribromophenol	118-79-6	17	125
EP075(SIM)T: PAH Surrogates			
2-Fluorobiphenyl	321-60-8	20	104
Anthracene-d10	1719-06-8	27	113
4-Terphenyl-d14	1718-51-0	32	112
EP075S: Acid Extractable Surrogates			
2-Fluorophenol	367-12-4	10	117
Phenol-d6	13127-88-3	10	69
2-Chlorophenol-D4	93951-73-6	21	130
2.4.6-Tribromophenol	118-79-6	10	151
EP075T: Base/Neutral Extractable Surrogates			
Nitrobenzene-D5	4165-60-0	29	142
1.2-Dichlorobenzene-D4	2199-69-1	24	121
2-Fluorobiphenyl	321-60-8	27	135
Anthracene-d10	1719-06-8	27	113
4-Terphenyl-d14	1718-51-0	21	123
EP080S: TPH(V)/BTEX Surrogates			
1.2-Dichloroethane-D4	17060-07-0	71	137
Toluene-D8	2037-26-5	79	131
4-Bromofluorobenzene	460-00-4	70	128
EP231S: PFAS Surrogate			
13C4-PFOS	----	60	120
13C8-PFOA	----	60	120

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ALS Environmental

QUALITY CONTROL REPORT

Work Order	: **ES2202047**	Page	: 1 of 22
Client	: **ENVIRONMENTAL RESOURCES MANAGEMENT (ERM)**	Laboratory	: Environmental Division Sydney
Contact	: NICHOLAS GRBICH	Contact	: Customer Services ES
Address	: LEVEL 15 309 KENT STREET SYDNEY NSW AUSTRALIA 2000	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: ----	Telephone	: +61-2-8784 8555
Project	: 0628507	Date Samples Received	: 21-Jan-2022
Order number	: ----	Date Analysis Commenced	: 24-Jan-2022
C-O-C number	: ----	Issue Date	: 01-Feb-2022
Sampler	: TAJ MONDON		
Site	: ----		
Quote number	: EN/114		
No. of samples received	: 24		
No. of samples analysed	: 23		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Ankit Joshi	Inorganic Chemist	Sydney Inorganics, Smithfield, NSW
Edwandy Fadjar	Organic Coordinator	Sydney Organics, Smithfield, NSW
Franco Lentini	LCMS Coordinator	Sydney Organics, Smithfield, NSW
Ivan Taylor	Analyst	Sydney Inorganics, Smithfield, NSW

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General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis. Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Key : Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot
CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
RPD = Relative Percentage Difference
# = Indicates failed QC

Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EA015: Total Dissolved Solids dried at 180 ± 5 °C (QC Lot: 4136430)									
ES2201969-001	Anonymous	EA015H: Total Dissolved Solids @180°C	----	10	mg/L	104	138	28.9	0% - 50%
ES2202013-003	Anonymous	EA015H: Total Dissolved Solids @180°C	----	10	mg/L	509	512	0.7	0% - 20%
ED037P: Alkalinity by PC Titrator (QC Lot: 4137312)									
ES2201979-001	Anonymous	ED037-P: Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1	<1	0.0	No Limit
		ED037-P: Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	<1	<1	0.0	No Limit
		ED037-P: Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	700	714	2.0	0% - 20%
		ED037-P: Total Alkalinity as CaCO3	----	1	mg/L	700	714	2.0	0% - 20%
ES2202025-001	Anonymous	ED037-P: Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1	<1	0.0	No Limit
		ED037-P: Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	<1	<1	0.0	No Limit
		ED037-P: Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	410	416	1.5	0% - 20%
		ED037-P: Total Alkalinity as CaCO3	----	1	mg/L	410	416	1.5	0% - 20%
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA (QC Lot: 4137505)									
ES2202205-001	Anonymous	ED041G: Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	<1	<1	0.0	No Limit
ES2202047-012	BUR_BH125	ED041G: Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	274	273	0.0	0% - 20%
ED045G: Chloride by Discrete Analyser (QC Lot: 4137508)									
ES2202205-001	Anonymous	ED045G: Chloride	16887-00-6	1	mg/L	8	8	0.0	No Limit
ES2202047-012	BUR_BH125	ED045G: Chloride	16887-00-6	1	mg/L	566	565	0.2	0% - 20%
ED093F: Dissolved Major Cations (QC Lot: 4139030)									
ES2202047-012	BUR_BH125	ED093F: Calcium	7440-70-2	1	mg/L	4	4	0.0	No Limit
		ED093F: Magnesium	7439-95-4	1	mg/L	2	2	0.0	No Limit
		ED093F: Sodium	7440-23-5	1	mg/L	456	467	2.3	0% - 20%
		ED093F: Potassium	7440-09-7	1	mg/L	13	13	0.0	0% - 50%
ES2202206-001	Anonymous	ED093F: Calcium	7440-70-2	1	mg/L	50	49	0.0	0% - 20%

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Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
ED093F: Dissolved Major Cations (QC Lot: 4139030) - continued									
ES2202206-001	Anonymous	ED093F: Magnesium	7439-95-4	1	mg/L	9	9	0.0	No Limit
		ED093F: Sodium	7440-23-5	1	mg/L	48	44	9.6	0% - 20%
		ED093F: Potassium	7440-09-7	1	mg/L	15	14	0.0	0% - 50%
EG020F: Dissolved Metals by ICP-MS (QC Lot: 4139027)									
ES2202047-012	BUR_BH125	EG020A-F: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
		EG020A-F: Arsenic	7440-38-2	0.001	mg/L	0.017	0.017	0.0	0% - 50%
		EG020A-F: Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-F: Copper	7440-50-8	0.001	mg/L	0.002	0.002	0.0	No Limit
		EG020A-F: Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-F: Nickel	7440-02-0	0.001	mg/L	0.004	0.004	0.0	No Limit
		EG020A-F: Zinc	7440-66-6	0.005	mg/L	<0.005	<0.005	0.0	No Limit
ES2202206-001	Anonymous	EG020A-F: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
		EG020A-F: Arsenic	7440-38-2	0.001	mg/L	0.030	0.031	0.0	0% - 20%
		EG020A-F: Chromium	7440-47-3	0.001	mg/L	0.001	0.001	0.0	No Limit
		EG020A-F: Copper	7440-50-8	0.001	mg/L	0.027	0.029	6.8	0% - 20%
		EG020A-F: Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-F: Nickel	7440-02-0	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-F: Zinc	7440-66-6	0.005	mg/L	<0.005	<0.005	0.0	No Limit
EG020T: Total Metals by ICP-MS (QC Lot: 4139064)									
ES2201969-002	Anonymous	EG020A-T: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
		EG020A-T: Arsenic	7440-38-2	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Copper	7440-50-8	0.001	mg/L	0.146	0.144	1.4	0% - 20%
		EG020A-T: Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Nickel	7440-02-0	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Zinc	7440-66-6	0.005	mg/L	0.010	0.009	0.0	No Limit
ES2201931-001	Anonymous	EG020A-T: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
		EG020A-T: Arsenic	7440-38-2	0.001	mg/L	0.006	0.005	0.0	No Limit
		EG020A-T: Chromium	7440-47-3	0.001	mg/L	0.003	0.002	0.0	No Limit
		EG020A-T: Copper	7440-50-8	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Nickel	7440-02-0	0.001	mg/L	<0.001	0.001	0.0	No Limit
		EG020A-T: Zinc	7440-66-6	0.005	mg/L	0.122	0.126	3.0	0% - 20%
EG035F: Dissolved Mercury by FIMS (QC Lot: 4139028)									
ES2201966-005	Anonymous	EG035F: Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
ES2202206-001	Anonymous	EG035F: Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 4139154)									
ES2201969-002	Anonymous	EG035T: Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
ES2202101-003	Anonymous	EG035T: Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit

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Sub-Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EK055G: Ammonia as N by Discrete Analyser (QC Lot: 4136962)									
ES2201979-001	Anonymous	EK055G: Ammonia as N	7664-41-7	0.01	mg/L	4.75	4.70	1.1	0% - 20%
EK057G: Nitrite as N by Discrete Analyser (QC Lot: 4137507)									
ES2202205-001	Anonymous	EK057G: Nitrite as N	14797-65-0	0.01	mg/L	<0.01	<0.01	0.0	No Limit
ES2202047-012	BUR_BH125	EK057G: Nitrite as N	14797-65-0	0.01	mg/L	0.26	0.26	0.0	0% - 20%
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QC Lot: 4136963)									
ES2201979-001	Anonymous	EK059G: Nitrite + Nitrate as N	----	0.01	mg/L	<0.10	0.19	62.5	No Limit
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser (QC Lot: 4136959)									
ES2201979-001	Anonymous	EK061G: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	6.8	6.6	2.8	0% - 50%
ES2201979-011	Anonymous	EK061G: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	<0.1	<0.1	0.0	No Limit
EK067G: Total Phosphorus as P by Discrete Analyser (QC Lot: 4136958)									
ES2201979-001	Anonymous	EK067G: Total Phosphorus as P	----	0.01	mg/L	0.68	0.69	1.6	0% - 50%
ES2201979-011	Anonymous	EK067G: Total Phosphorus as P	----	0.01	mg/L	<0.01	<0.01	0.0	No Limit
EK071G: Reactive Phosphorus as P by discrete analyser (QC Lot: 4137506)									
ES2202047-012	BUR_BH125	EK071G: Reactive Phosphorus as P	14265-44-2	0.01	mg/L	<0.01	<0.01	0.0	No Limit
EP074A: Monocyclic Aromatic Hydrocarbons (QC Lot: 4137802)									
ES2201683-020	Anonymous	EP074: Styrene	100-42-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: Isopropylbenzene	98-82-8	5	µg/L	<5	<5	0.0	No Limit
		EP074: n-Propylbenzene	103-65-1	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.3.5-Trimethylbenzene	108-67-8	5	µg/L	<5	<5	0.0	No Limit
		EP074: sec-Butylbenzene	135-98-8	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2.4-Trimethylbenzene	95-63-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: tert-Butylbenzene	98-06-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: p-Isopropyltoluene	99-87-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: n-Butylbenzene	104-51-8	5	µg/L	<5	<5	0.0	No Limit
ES2202156-001	Anonymous	EP074: Styrene	100-42-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: Isopropylbenzene	98-82-8	5	µg/L	<5	<5	0.0	No Limit
		EP074: n-Propylbenzene	103-65-1	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.3.5-Trimethylbenzene	108-67-8	5	µg/L	<5	<5	0.0	No Limit
		EP074: sec-Butylbenzene	135-98-8	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2.4-Trimethylbenzene	95-63-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: tert-Butylbenzene	98-06-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: p-Isopropyltoluene	99-87-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: n-Butylbenzene	104-51-8	5	µg/L	<5	<5	0.0	No Limit
EP074B: Oxygenated Compounds (QC Lot: 4137802)									
ES2201683-020	Anonymous	EP074: Vinyl Acetate	108-05-4	50	µg/L	<50	<50	0.0	No Limit
		EP074: 2-Butanone (MEK)	78-93-3	50	µg/L	<50	<50	0.0	No Limit
		EP074: 4-Methyl-2-pentanone (MIBK)	108-10-1	50	µg/L	<50	<50	0.0	No Limit
		EP074: 2-Hexanone (MBK)	591-78-6	50	µg/L	<50	<50	0.0	No Limit
ES2202156-001	Anonymous	EP074: Vinyl Acetate	108-05-4	50	µg/L	<50	<50	0.0	No Limit

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Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP074B: Oxygenated Compounds (QC Lot: 4137802) - continued									
ES2202156-001	Anonymous	EP074: 2-Butanone (MEK)	78-93-3	50	µg/L	<50	<50	0.0	No Limit
		EP074: 4-Methyl-2-pentanone (MIBK)	108-10-1	50	µg/L	<50	<50	0.0	No Limit
		EP074: 2-Hexanone (MBK)	591-78-6	50	µg/L	<50	<50	0.0	No Limit
EP074C: Sulfonated Compounds (QC Lot: 4137802)									
ES2201683-020	Anonymous	EP074: Carbon disulfide	75-15-0	5	µg/L	<5	<5	0.0	No Limit
ES2202156-001	Anonymous	EP074: Carbon disulfide	75-15-0	5	µg/L	<5	<5	0.0	No Limit
EP074D: Fumigants (QC Lot: 4137802)									
ES2201683-020	Anonymous	EP074: 2.2-Dichloropropane	594-20-7	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2-Dichloropropane	78-87-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: cis-1.3-Dichloropropylene	10061-01-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: trans-1.3-Dichloropropylene	10061-02-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2-Dibromoethane (EDB)	106-93-4	5	µg/L	<5	<5	0.0	No Limit
ES2202156-001	Anonymous	EP074: 2.2-Dichloropropane	594-20-7	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2-Dichloropropane	78-87-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: cis-1.3-Dichloropropylene	10061-01-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: trans-1.3-Dichloropropylene	10061-02-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2-Dibromoethane (EDB)	106-93-4	5	µg/L	<5	<5	0.0	No Limit
EP074E: Halogenated Aliphatic Compounds (QC Lot: 4137802)									
ES2201683-020	Anonymous	EP074: 1.1-Dichloroethene	75-35-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: Iodomethane	74-88-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: trans-1.2-Dichloroethene	156-60-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1-Dichloroethane	75-34-3	5	µg/L	<5	<5	0.0	No Limit
		EP074: cis-1.2-Dichloroethene	156-59-2	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1.1-Trichloroethane	71-55-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1-Dichloropropylene	563-58-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: Carbon Tetrachloride	56-23-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2-Dichloroethane	107-06-2	5	µg/L	<5	<5	0.0	No Limit
		EP074: Trichloroethene	79-01-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: Dibromomethane	74-95-3	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1.2-Trichloroethane	79-00-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.3-Dichloropropane	142-28-9	5	µg/L	<5	<5	0.0	No Limit
		EP074: Tetrachloroethene	127-18-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1.1.2-Tetrachloroethane	630-20-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: trans-1.4-Dichloro-2-butene	110-57-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: cis-1.4-Dichloro-2-butene	1476-11-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1.2.2-Tetrachloroethane	79-34-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2.3-Trichloropropane	96-18-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: Pentachloroethane	76-01-7	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2-Dibromo-3-chloropropane	96-12-8	5	µg/L	<5	<5	0.0	No Limit
		EP074: Dichlorodifluoromethane	75-71-8	50	µg/L	<50	<50	0.0	No Limit

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Sub-Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP074E: Halogenated Aliphatic Compounds (QC Lot: 4137802) - continued									
ES2201683-020	Anonymous	EP074: Chloromethane	74-87-3	50	µg/L	<50	<50	0.0	No Limit
		EP074: Vinyl chloride	75-01-4	50	µg/L	<50	<50	0.0	No Limit
		EP074: Bromomethane	74-83-9	50	µg/L	<50	<50	0.0	No Limit
		EP074: Chloroethane	75-00-3	50	µg/L	<50	<50	0.0	No Limit
		EP074: Trichlorofluoromethane	75-69-4	50	µg/L	<50	<50	0.0	No Limit
ES2202156-001	Anonymous	EP074: 1.1-Dichloroethene	75-35-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: Iodomethane	74-88-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: trans-1.2-Dichloroethene	156-60-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1-Dichloroethane	75-34-3	5	µg/L	<5	<5	0.0	No Limit
		EP074: cis-1.2-Dichloroethene	156-59-2	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1.1-Trichloroethane	71-55-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1-Dichloropropylene	563-58-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: Carbon Tetrachloride	56-23-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2-Dichloroethane	107-06-2	5	µg/L	<5	<5	0.0	No Limit
		EP074: Trichloroethene	79-01-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: Dibromomethane	74-95-3	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1.2-Trichloroethane	79-00-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.3-Dichloropropane	142-28-9	5	µg/L	<5	<5	0.0	No Limit
		EP074: Tetrachloroethene	127-18-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1.1.2-Tetrachloroethane	630-20-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: trans-1.4-Dichloro-2-butene	110-57-6	5	µg/L	<5	<5	0.0	No Limit
		EP074: cis-1.4-Dichloro-2-butene	1476-11-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.1.2.2-Tetrachloroethane	79-34-5	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2.3-Trichloropropane	96-18-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: Pentachloroethane	76-01-7	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2-Dibromo-3-chloropropane	96-12-8	5	µg/L	<5	<5	0.0	No Limit
		EP074: Dichlorodifluoromethane	75-71-8	50	µg/L	<50	<50	0.0	No Limit
		EP074: Chloromethane	74-87-3	50	µg/L	<50	<50	0.0	No Limit
		EP074: Vinyl chloride	75-01-4	50	µg/L	<50	<50	0.0	No Limit
		EP074: Bromomethane	74-83-9	50	µg/L	<50	<50	0.0	No Limit
		EP074: Chloroethane	75-00-3	50	µg/L	<50	<50	0.0	No Limit
		EP074: Trichlorofluoromethane	75-69-4	50	µg/L	<50	<50	0.0	No Limit
EP074F: Halogenated Aromatic Compounds (QC Lot: 4137802)									
ES2201683-020	Anonymous	EP074: Chlorobenzene	108-90-7	5	µg/L	<5	<5	0.0	No Limit
		EP074: Bromobenzene	108-86-1	5	µg/L	<5	<5	0.0	No Limit
		EP074: 2-Chlorotoluene	95-49-8	5	µg/L	<5	<5	0.0	No Limit
		EP074: 4-Chlorotoluene	106-43-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2.3-Trichlorobenzene	87-61-6	5	µg/L	<5	<5	0.0	No Limit
ES2202156-001	Anonymous	EP074: Chlorobenzene	108-90-7	5	µg/L	<5	<5	0.0	No Limit
		EP074: Bromobenzene	108-86-1	5	µg/L	<5	<5	0.0	No Limit

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Sub-Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP074F: Halogenated Aromatic Compounds (QC Lot: 4137802) - continued									
ES2202156-001	Anonymous	EP074: 2-Chlorotoluene	95-49-8	5	µg/L	<5	<5	0.0	No Limit
		EP074: 4-Chlorotoluene	106-43-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: 1.2.3-Trichlorobenzene	87-61-6	5	µg/L	<5	<5	0.0	No Limit
EP074G: Trihalomethanes (QC Lot: 4137802)									
ES2201683-020	Anonymous	EP074: Chloroform	67-66-3	5	µg/L	<5	<5	0.0	No Limit
		EP074: Bromodichloromethane	75-27-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: Dibromochloromethane	124-48-1	5	µg/L	<5	<5	0.0	No Limit
		EP074: Bromoform	75-25-2	5	µg/L	<5	<5	0.0	No Limit
ES2202156-001	Anonymous	EP074: Chloroform	67-66-3	5	µg/L	<5	<5	0.0	No Limit
		EP074: Bromodichloromethane	75-27-4	5	µg/L	<5	<5	0.0	No Limit
		EP074: Dibromochloromethane	124-48-1	5	µg/L	<5	<5	0.0	No Limit
		EP074: Bromoform	75-25-2	5	µg/L	<5	<5	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4137803)									
ES2201683-020	Anonymous	EP080: C6 - C9 Fraction	----	20	µg/L	<20	<20	0.0	No Limit
ES2202156-001	Anonymous	EP080: C6 - C9 Fraction	----	20	µg/L	<20	<20	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4137803)									
ES2201683-020	Anonymous	EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	<20	0.0	No Limit
ES2202156-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	<20	0.0	No Limit
EP080: BTEXN (QC Lot: 4137803)									
ES2201683-020	Anonymous	EP080: Benzene	71-43-2	1	µg/L	<1	<1	0.0	No Limit
		EP080: Toluene	108-88-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	2	µg/L	<2	<2	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	2	µg/L	<2	<2	0.0	No Limit
		EP080: Naphthalene	91-20-3	5	µg/L	<5	<5	0.0	No Limit
ES2202156-001	Anonymous	EP080: Benzene	71-43-2	1	µg/L	<1	<1	0.0	No Limit
		EP080: Toluene	108-88-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	2	µg/L	<2	<2	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	2	µg/L	<2	<2	0.0	No Limit
		EP080: Naphthalene	91-20-3	5	µg/L	<5	<5	0.0	No Limit
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 4137474)									
ES2201941-001	Anonymous	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	0.05	0.05	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	0.11	0.10	0.0	0% - 50%
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit

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Sub-Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 4137474) - continued									
ES2201941-001	Anonymous	EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
ES2202142-003	Anonymous	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	0.18	0.18	0.0	0% - 50%
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	0.68	0.64	5.6	0% - 20%
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	0.02	<0.02	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4137474)									
ES2201941-001	Anonymous	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	0.0	No Limit
ES2202142-003	Anonymous	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	0.04	0.04	0.0	No Limit
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	0.04	0.03	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	0.08	0.08	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	0.0	No Limit
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4137474)									
ES2201941-001	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4137474) - continued									
ES2201941-001	Anonymous	EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
ES2202142-003	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4137474)									
ES2201941-001	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	0.0	No Limit
ES2202142-003	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231P: PFAS Sums (QC Lot: 4137474)									
ES2201941-001	Anonymous	EP231X: Sum of PFAS	---	0.01	µg/L	0.16	0.15	6.5	0% - 50%
ES2202142-003	Anonymous	EP231X: Sum of PFAS	---	0.01	µg/L	1.04	0.97	7.0	0% - 20%

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Method Blank (MB) and Laboratory Control Sample (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Sample (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

Sub-Matrix: **WATER**

				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EA015: Total Dissolved Solids dried at 180 ± 5 °C (QCLot: 4136430)								
EA015H: Total Dissolved Solids @180°C	----	10	mg/L	<10	2000 mg/L	104	87.0	109
				<10	293 mg/L	116	75.2	126
				<10	2835 mg/L	106	83.0	124
ED037P: Alkalinity by PC Titrator (QCLot: 4137312)								
ED037-P: Total Alkalinity as CaCO3	----	----	mg/L	----	200 mg/L	103	81.0	111
				----	50 mg/L	120	80.0	120
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA (QCLot: 4137505)								
ED041G: Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	<1	25 mg/L	104	82.0	122
				<1	500 mg/L	110	82.0	122
ED045G: Chloride by Discrete Analyser (QCLot: 4137508)								
ED045G: Chloride	16887-00-6	1	mg/L	<1	50 mg/L	93.6	80.9	127
				<1	1000 mg/L	106	80.9	127
ED093F: Dissolved Major Cations (QCLot: 4139030)								
ED093F: Calcium	7440-70-2	1	mg/L	<1	50 mg/L	95.4	80.0	114
ED093F: Magnesium	7439-95-4	1	mg/L	<1	50 mg/L	98.3	90.0	116
ED093F: Sodium	7440-23-5	1	mg/L	<1	50 mg/L	94.9	82.0	120
ED093F: Potassium	7440-09-7	1	mg/L	<1	50 mg/L	94.6	85.0	113
EG020F: Dissolved Metals by ICP-MS (QCLot: 4139027)								
EG020A-F: Arsenic	7440-38-2	0.001	mg/L	<0.001	0.1 mg/L	89.2	85.0	114
EG020A-F: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	0.1 mg/L	96.0	84.0	110
EG020A-F: Chromium	7440-47-3	0.001	mg/L	<0.001	0.1 mg/L	97.1	85.0	111
EG020A-F: Copper	7440-50-8	0.001	mg/L	<0.001	0.1 mg/L	89.0	81.0	111
EG020A-F: Lead	7439-92-1	0.001	mg/L	<0.001	0.1 mg/L	93.9	83.0	111
EG020A-F: Nickel	7440-02-0	0.001	mg/L	<0.001	0.1 mg/L	87.0	82.0	112
EG020A-F: Zinc	7440-66-6	0.005	mg/L	<0.005	0.1 mg/L	87.5	81.0	117
EG020T: Total Metals by ICP-MS (QCLot: 4139064)								
EG020A-T: Arsenic	7440-38-2	0.001	mg/L	<0.001	0.1 mg/L	100	82.0	114
EG020A-T: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	0.1 mg/L	95.9	84.0	112
EG020A-T: Chromium	7440-47-3	0.001	mg/L	<0.001	0.1 mg/L	96.2	86.0	116
EG020A-T: Copper	7440-50-8	0.001	mg/L	<0.001	0.1 mg/L	99.0	83.0	118
EG020A-T: Lead	7439-92-1	0.001	mg/L	<0.001	0.1 mg/L	97.2	85.0	115
EG020A-T: Nickel	7440-02-0	0.001	mg/L	<0.001	0.1 mg/L	99.7	84.0	116
EG020A-T: Zinc	7440-66-6	0.005	mg/L	<0.005	0.1 mg/L	96.9	79.0	117
EG035F: Dissolved Mercury by FIMS (QCLot: 4139028)								

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Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EG035F: Dissolved Mercury by FIMS (QCLot: 4139028) - continued								
EG035F: Mercury	7439-97-6	0.0001	mg/L	<0.0001	0.01 mg/L	102	83.0	105
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4139154)								
EG035T: Mercury	7439-97-6	0.0001	mg/L	<0.0001	0.01 mg/L	101	77.0	111
EK055G: Ammonia as N by Discrete Analyser (QCLot: 4136962)								
EK055G: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	1 mg/L	103	90.0	114
EK057G: Nitrite as N by Discrete Analyser (QCLot: 4137507)								
EK057G: Nitrite as N	14797-65-0	0.01	mg/L	<0.01	0.5 mg/L	103	82.0	114
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QCLot: 4136963)								
EK059G: Nitrite + Nitrate as N	----	0.01	mg/L	<0.01	0.5 mg/L	101	91.0	113
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser (QCLot: 4136959)								
EK061G: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	<0.1	10 mg/L	89.4	69.0	101
				<0.1	1 mg/L	109	70.0	118
				<0.1	5 mg/L	95.9	70.0	130
EK067G: Total Phosphorus as P by Discrete Analyser (QCLot: 4136958)								
EK067G: Total Phosphorus as P	----	0.01	mg/L	<0.01	4.42 mg/L	91.1	71.0	101
				<0.01	0.442 mg/L	# 109	72.0	108
				<0.01	1 mg/L	96.7	70.0	130
EK071G: Reactive Phosphorus as P by discrete analyser (QCLot: 4137506)								
EK071G: Reactive Phosphorus as P	14265-44-2	0.01	mg/L	<0.01	0.5 mg/L	109	85.0	117
EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 4137802)								
EP074: Styrene	100-42-5	5	µg/L	<5	10 µg/L	93.9	73.0	119
EP074: Isopropylbenzene	98-82-8	5	µg/L	<5	10 µg/L	93.4	76.0	118
EP074: n-Propylbenzene	103-65-1	5	µg/L	<5	10 µg/L	91.3	69.0	119
EP074: 1.3.5-Trimethylbenzene	108-67-8	5	µg/L	<5	10 µg/L	91.2	74.0	116
EP074: sec-Butylbenzene	135-98-8	5	µg/L	<5	10 µg/L	90.9	73.0	119
EP074: 1.2.4-Trimethylbenzene	95-63-6	5	µg/L	<5	10 µg/L	93.4	74.0	116
EP074: tert-Butylbenzene	98-06-6	5	µg/L	<5	10 µg/L	89.7	72.0	116
EP074: p-Isopropyltoluene	99-87-6	5	µg/L	<5	10 µg/L	91.8	71.0	119
EP074: n-Butylbenzene	104-51-8	5	µg/L	<5	10 µg/L	95.1	65.0	123
EP074B: Oxygenated Compounds (QCLot: 4137802)								
EP074: Vinyl Acetate	108-05-4	50	µg/L	<50	100 µg/L	93.5	61.4	134
EP074: 2-Butanone (MEK)	78-93-3	50	µg/L	<50	100 µg/L	97.8	73.6	130
EP074: 4-Methyl-2-pentanone (MIBK)	108-10-1	50	µg/L	<50	100 µg/L	104	66.0	132
EP074: 2-Hexanone (MBK)	591-78-6	50	µg/L	<50	100 µg/L	102	65.0	137
EP074C: Sulfonated Compounds (QCLot: 4137802)								
EP074: Carbon disulfide	75-15-0	5	µg/L	<5	10 µg/L	96.2	72.8	127
EP074D: Fumigants (QCLot: 4137802)								

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Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report		
				Result	Spike Concentration	Spike Recovery (%)	Acceptable Limits (%)
						LCS	Low	High
EP074D: Fumigants (QCLot: 4137802) - continued								
EP074: 2.2-Dichloropropane	594-20-7	5	µg/L	<5	10 µg/L	90.5	68.0	122
EP074: 1.2-Dichloropropane	78-87-5	5	µg/L	<5	10 µg/L	93.4	76.0	118
EP074: cis-1.3-Dichloropropylene	10061-01-5	5	µg/L	<5	10 µg/L	94.6	62.0	120
EP074: trans-1.3-Dichloropropylene	10061-02-6	5	µg/L	<5	10 µg/L	97.8	60.0	114
EP074: 1.2-Dibromoethane (EDB)	106-93-4	5	µg/L	<5	10 µg/L	103	69.0	117
EP074E: Halogenated Aliphatic Compounds (QCLot: 4137802)								
EP074: Dichlorodifluoromethane	75-71-8	50	µg/L	<50	100 µg/L	81.1	60.6	138
EP074: Chloromethane	74-87-3	50	µg/L	<50	100 µg/L	86.1	67.4	130
EP074: Vinyl chloride	75-01-4	50	µg/L	<50	100 µg/L	77.3	69.4	129
EP074: Bromomethane	74-83-9	50	µg/L	<50	100 µg/L	96.3	56.0	140
EP074: Chloroethane	75-00-3	50	µg/L	<50	100 µg/L	89.0	61.0	139
EP074: Trichlorofluoromethane	75-69-4	50	µg/L	<50	100 µg/L	91.1	69.0	131
EP074: 1.1-Dichloroethene	75-35-4	5	µg/L	<5	10 µg/L	91.4	70.0	124
EP074: Iodomethane	74-88-4	5	µg/L	<5	10 µg/L	70.9	70.2	128
EP074: trans-1.2-Dichloroethene	156-60-5	5	µg/L	<5	10 µg/L	82.4	74.0	118
EP074: 1.1-Dichloroethane	75-34-3	5	µg/L	<5	10 µg/L	79.9	74.0	120
EP074: cis-1.2-Dichloroethene	156-59-2	5	µg/L	<5	10 µg/L	82.7	77.0	119
EP074: 1.1.1-Trichloroethane	71-55-6	5	µg/L	<5	10 µg/L	90.3	67.0	119
EP074: 1.1-Dichloropropylene	563-58-6	5	µg/L	<5	10 µg/L	89.5	73.0	119
EP074: Carbon Tetrachloride	56-23-5	5	µg/L	<5	10 µg/L	90.6	62.0	120
EP074: 1.2-Dichloroethane	107-06-2	5	µg/L	<5	10 µg/L	94.1	73.0	123
EP074: Trichloroethene	79-01-6	5	µg/L	<5	10 µg/L	90.6	76.0	118
EP074: Dibromomethane	74-95-3	5	µg/L	<5	10 µg/L	97.2	73.0	119
EP074: 1.1.2-Trichloroethane	79-00-5	5	µg/L	<5	10 µg/L	104	72.0	126
EP074: 1.3-Dichloropropane	142-28-9	5	µg/L	<5	10 µg/L	103	71.0	129
EP074: Tetrachloroethene	127-18-4	5	µg/L	<5	10 µg/L	91.6	72.0	124
EP074: 1.1.1.2-Tetrachloroethane	630-20-6	5	µg/L	<5	10 µg/L	99.4	66.0	114
EP074: trans-1.4-Dichloro-2-butene	110-57-6	5	µg/L	<5	10 µg/L	108	60.0	120
EP074: cis-1.4-Dichloro-2-butene	1476-11-5	5	µg/L	<5	10 µg/L	105	70.6	128
EP074: 1.1.2.2-Tetrachloroethane	79-34-5	5	µg/L	<5	10 µg/L	108	70.0	124
EP074: 1.2.3-Trichloropropane	96-18-4	5	µg/L	<5	10 µg/L	111	74.0	126
EP074: Pentachloroethane	76-01-7	5	µg/L	<5	10 µg/L	112	71.8	126
EP074: 1.2-Dibromo-3-chloropropane	96-12-8	5	µg/L	<5	10 µg/L	102	66.4	136
EP074F: Halogenated Aromatic Compounds (QCLot: 4137802)								
EP074: Chlorobenzene	108-90-7	5	µg/L	<5	10 µg/L	99.9	79.0	117
EP074: Bromobenzene	108-86-1	5	µg/L	<5	10 µg/L	101	76.0	116
EP074: 2-Chlorotoluene	95-49-8	5	µg/L	<5	10 µg/L	94.2	73.0	119
EP074: 4-Chlorotoluene	106-43-4	5	µg/L	<5	10 µg/L	97.2	73.0	119
EP074: 1.2.3-Trichlorobenzene	87-61-6	5	µg/L	<5	10 µg/L	108	67.0	123

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Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report		
					Spike	Spike Recovery (%)	Acceptable Limits (%)
				Result	Concentration	LCS	Low	High
EP074G: Trihalomethanes (QCLot: 4137802)								
EP074: Chloroform	67-66-3	5	µg/L	<5	10 µg/L	91.9	72.0	120
EP074: Bromodichloromethane	75-27-4	5	µg/L	<5	10 µg/L	94.3	64.0	118
EP074: Dibromochloromethane	124-48-1	5	µg/L	<5	10 µg/L	105	65.0	115
EP074: Bromoform	75-25-2	5	µg/L	<5	10 µg/L	111	73.5	126
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 4136769)								
EP075(SIM): Naphthalene	91-20-3	1	µg/L	<1.0	5 µg/L	71.8	50.0	94.0
EP075(SIM): Acenaphthylene	208-96-8	1	µg/L	<1.0	5 µg/L	66.6	63.6	114
EP075(SIM): Acenaphthene	83-32-9	1	µg/L	<1.0	5 µg/L	70.4	62.2	113
EP075(SIM): Fluorene	86-73-7	1	µg/L	<1.0	5 µg/L	76.6	63.9	115
EP075(SIM): Phenanthrene	85-01-8	1	µg/L	<1.0	5 µg/L	69.0	62.6	116
EP075(SIM): Anthracene	120-12-7	1	µg/L	<1.0	5 µg/L	90.0	64.3	116
EP075(SIM): Fluoranthene	206-44-0	1	µg/L	<1.0	5 µg/L	84.4	63.6	118
EP075(SIM): Pyrene	129-00-0	1	µg/L	<1.0	5 µg/L	84.4	63.1	118
EP075(SIM): Benz(a)anthracene	56-55-3	1	µg/L	<1.0	5 µg/L	71.2	64.1	117
EP075(SIM): Chrysene	218-01-9	1	µg/L	<1.0	5 µg/L	72.5	62.5	116
EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	1	µg/L	<1.0	5 µg/L	67.6	61.7	119
EP075(SIM): Benzo(k)fluoranthene	207-08-9	1	µg/L	<1.0	5 µg/L	84.9	63.0	115
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	µg/L	<0.5	5 µg/L	68.2	63.3	117
EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	1	µg/L	<1.0	5 µg/L	73.0	59.9	118
EP075(SIM): Dibenz(a.h)anthracene	53-70-3	1	µg/L	<1.0	5 µg/L	72.4	61.2	117
EP075(SIM): Benzo(g.h.i)perylene	191-24-2	1	µg/L	<1.0	5 µg/L	80.5	59.1	118
EP075A: Phenolic Compounds (QCLot: 4136770)								
EP075: Phenol	108-95-2	2	µg/L	<2	10 µg/L	31.4	25.5	64.1
EP075: 2-Chlorophenol	95-57-8	2	µg/L	<2	10 µg/L	59.3	52.0	88.0
EP075: 2-Methylphenol	95-48-7	2	µg/L	<2	10 µg/L	65.0	50.0	94.0
EP075: 3- & 4-Methylphenol	1319-77-3	2	µg/L	<2	10 µg/L	58.5	45.0	96.2
EP075: 2-Nitrophenol	88-75-5	2	µg/L	<2	10 µg/L	66.1	48.0	98.0
EP075: 2.4-Dimethylphenol	105-67-9	2	µg/L	<2	10 µg/L	59.1	50.0	94.0
EP075: 2.4-Dichlorophenol	120-83-2	2	µg/L	<2	10 µg/L	70.0	61.9	109
EP075: 2.6-Dichlorophenol	87-65-0	2	µg/L	<2	10 µg/L	67.4	61.5	108
EP075: 4-Chloro-3-methylphenol	59-50-7	2	µg/L	<2	10 µg/L	72.2	61.4	107
EP075: 2.4.6-Trichlorophenol	88-06-2	2	µg/L	<2	10 µg/L	72.2	57.6	112
EP075: 2.4.5-Trichlorophenol	95-95-4	2	µg/L	<2	10 µg/L	76.1	58.0	110
EP075: Pentachlorophenol	87-86-5	4	µg/L	<4	20 µg/L	66.2	12.8	95.0
EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 4136770)								
EP075: Naphthalene	91-20-3	2	µg/L	<2	10 µg/L	61.1	51.0	95.0
EP075: 2-Methylnaphthalene	91-57-6	2	µg/L	<2	10 µg/L	62.4	59.0	108

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Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report		
					Spike	Spike Recovery (%)	Acceptable Limits (%)
				Result	Concentration	LCS	Low	High
EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 4136770) - continued								
EP075: 2-Chloronaphthalene	91-58-7	2	µg/L	<2	10 µg/L	# 59.4	60.6	106
EP075: Acenaphthylene	208-96-8	2	µg/L	<2	10 µg/L	69.2	64.0	108
EP075: Acenaphthene	83-32-9	2	µg/L	<2	10 µg/L	67.5	65.0	108
EP075: Fluorene	86-73-7	2	µg/L	<2	10 µg/L	73.6	65.2	107
EP075: Phenanthrene	85-01-8	2	µg/L	<2	10 µg/L	82.9	66.7	108
EP075: Anthracene	120-12-7	2	µg/L	<2	10 µg/L	86.5	65.8	108
EP075: Fluoranthene	206-44-0	2	µg/L	<2	10 µg/L	91.9	64.9	109
EP075: Pyrene	129-00-0	2	µg/L	<2	10 µg/L	93.7	60.1	111
EP075: N-2-Fluorenyl Acetamide	53-96-3	2	µg/L	<2	10 µg/L	104	59.7	110
EP075: Benz(a)anthracene	56-55-3	2	µg/L	<2	10 µg/L	94.4	62.2	112
EP075: Chrysene	218-01-9	2	µg/L	<2	10 µg/L	95.4	59.3	114
EP075: Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	4	µg/L	<4	20 µg/L	96.4	60.1	111
EP075: 7.12-Dimethylbenz(a)anthracene	57-97-6	2	µg/L	<2	10 µg/L	59.2	50.0	108
EP075: Benzo(a)pyrene	50-32-8	2	µg/L	<2	10 µg/L	96.0	59.2	112
EP075: 3-Methylcholanthrene	56-49-5	2	µg/L	<2	10 µg/L	63.8	60.1	110
EP075: Indeno(1.2.3.cd)pyrene	193-39-5	2	µg/L	<2	10 µg/L	92.3	59.6	110
EP075: Dibenz(a.h)anthracene	53-70-3	2	µg/L	<2	10 µg/L	92.4	57.2	109
EP075: Benzo(g.h.i)perylene	191-24-2	2	µg/L	<2	10 µg/L	91.6	60.6	110
EP075: Benzo(a)pyrene TEQ (zero)	----	2	µg/L	<2	----	---	---	---
EP075C: Phthalate Esters (QCLot: 4136770)								
EP075: Dimethyl phthalate	131-11-3	2	µg/L	<2	10 µg/L	76.9	64.3	112
EP075: Diethyl phthalate	84-66-2	2	µg/L	<2	10 µg/L	82.9	67.3	111
EP075: Di-n-butyl phthalate	84-74-2	2	µg/L	<2	10 µg/L	97.7	68.4	122
EP075: Butyl benzyl phthalate	85-68-7	2	µg/L	<2	10 µg/L	97.4	61.2	114
EP075: bis(2-ethylhexyl) phthalate	117-81-7	----	µg/L	----	10 µg/L	106	60.0	132
EP075: Di-n-octylphthalate	117-84-0	2	µg/L	<2	10 µg/L	96.7	62.1	115
EP075D: Nitrosamines (QCLot: 4136770)								
EP075: N-Nitrosomethylethylamine	10595-95-6	2	µg/L	<2	10 µg/L	50.1	46.0	110
EP075: N-Nitrosodiethylamine	55-18-5	2	µg/L	<2	10 µg/L	89.6	60.6	113
EP075: N-Nitrosopyrrolidine	930-55-2	4	µg/L	<4	10 µg/L	55.1	45.0	91.0
EP075: N-Nitrosomorpholine	59-89-2	2	µg/L	<2	10 µg/L	50.1	42.0	100
EP075: N-Nitrosodi-n-propylamine	621-64-7	2	µg/L	<2	10 µg/L	68.0	63.5	108
EP075: N-Nitrosopiperidine	100-75-4	2	µg/L	<2	10 µg/L	68.1	61.7	107
EP075: N-Nitrosodibutylamine	924-16-3	2	µg/L	<2	10 µg/L	103	62.5	108
EP075: N-Nitrosodiphenyl & Diphenylamine	86-30-6 122-39-4	4	µg/L	<4	20 µg/L	82.4	64.6	112
EP075: Methapyrilene	91-80-5	2	µg/L	<2	10 µg/L	33.8	23.3	125
EP075E: Nitroaromatics and Ketones (QCLot: 4136770)								

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Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report		
					Spike	Spike Recovery (%)	Acceptable Limits (%)
				Result	Concentration	LCS	Low	High
EP075E: Nitroaromatics and Ketones (QCLot: 4136770) - continued								
EP075: 2-Picoline	109-06-8	2	µg/L	<2	10 µg/L	46.6	41.0	109
EP075: Acetophenone	98-86-2	2	µg/L	<2	10 µg/L	72.8	68.3	112
EP075: Nitrobenzene	98-95-3	2	µg/L	<2	10 µg/L	76.7	68.3	112
EP075: Isophorone	78-59-1	2	µg/L	<2	10 µg/L	69.5	67.6	111
EP075: 2.6-Dinitrotoluene	606-20-2	4	µg/L	<4	10 µg/L	74.6	64.4	113
EP075: 2.4-Dinitrotoluene	121-14-2	4	µg/L	<4	10 µg/L	82.9	59.5	109
EP075: 1-Naphthylamine	134-32-7	2	µg/L	<2	10 µg/L	# 116	46.8	102
EP075: 4-Nitroquinoline-N-oxide	56-57-5	2	µg/L	<2	10 µg/L	95.8	40.0	96.0
EP075: 5-Nitro-o-toluidine	99-55-8	2	µg/L	<2	10 µg/L	87.6	58.3	106
EP075: Azobenzene	103-33-3	2	µg/L	<2	10 µg/L	77.5	66.0	112
EP075: 1.3.5-Trinitrobenzene	99-35-4	2	µg/L	<2	10 µg/L	88.1	46.0	108
EP075: Phenacetin	62-44-2	2	µg/L	<2	10 µg/L	# 103	57.8	101
EP075: 4-Aminobiphenyl	92-67-1	2	µg/L	<2	10 µg/L	110	60.1	112
EP075: Pentachloronitrobenzene	82-68-8	2	µg/L	<2	10 µg/L	87.2	59.0	109
EP075: Pronamide	23950-58-5	2	µg/L	<2	10 µg/L	104	62.7	109
EP075: Dimethylaminoazobenzene	60-11-7	2	µg/L	<2	10 µg/L	97.2	59.4	108
EP075: Chlorobenzilate	510-15-6	2	µg/L	<2	10 µg/L	95.9	57.7	110
EP075F: Haloethers (QCLot: 4136770)								
EP075: Bis(2-chloroethyl) ether	111-44-4	2	µg/L	<2	10 µg/L	# 59.9	69.1	112
EP075: Bis(2-chloroethoxy) methane	111-91-1	2	µg/L	<2	10 µg/L	68.9	66.2	111
EP075: 4-Chlorophenyl phenyl ether	7005-72-3	2	µg/L	<2	10 µg/L	73.4	64.7	109
EP075: 4-Bromophenyl phenyl ether	101-55-3	2	µg/L	<2	10 µg/L	77.4	61.6	108
EP075G: Chlorinated Hydrocarbons (QCLot: 4136770)								
EP075: 1.4-Dichlorobenzene	106-46-7	2	µg/L	<2	10 µg/L	55.1	41.0	97.0
EP075: 1.3-Dichlorobenzene	541-73-1	2	µg/L	<2	10 µg/L	56.0	40.0	96.0
EP075: 1.2-Dichlorobenzene	95-50-1	2	µg/L	<2	10 µg/L	57.1	41.0	95.0
EP075: Hexachloroethane	67-72-1	2	µg/L	<2	10 µg/L	56.4	46.0	88.0
EP075: 1.2.4-Trichlorobenzene	120-82-1	2	µg/L	<2	10 µg/L	59.0	46.0	96.0
EP075: Hexachloropropylene	1888-71-7	2	µg/L	<2	10 µg/L	58.1	34.0	96.0
EP075: Hexachlorobutadiene	87-68-3	2	µg/L	<2	10 µg/L	57.5	37.4	100
EP075: Hexachlorocyclopentadiene	77-47-4	10	µg/L	<10	10 µg/L	58.5	23.5	107
EP075: Pentachlorobenzene	608-93-5	2	µg/L	<2	10 µg/L	65.4	64.5	107
EP075: Hexachlorobenzene (HCB)	118-74-1	4	µg/L	<4	10 µg/L	76.9	65.7	110
EP075H: Anilines and Benzidines (QCLot: 4136770)								
EP075: Aniline	62-53-3	2	µg/L	<2	10 µg/L	60.1	50.0	104
EP075: 4-Chloroaniline	106-47-8	2	µg/L	<2	10 µg/L	64.2	42.0	106
EP075: 2-Nitroaniline	88-74-4	4	µg/L	<4	10 µg/L	73.2	60.9	110
EP075: 3-Nitroaniline	99-09-2	4	µg/L	<4	10 µg/L	81.9	51.5	96.9

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Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report		
					Spike	Spike Recovery (%)	Acceptable Limits (%)
				Result	Concentration	LCS	Low	High
EP075H: Anilines and Benzidines (QCLot: 4136770) - continued								
EP075: Dibenzofuran	132-64-9	2	µg/L	<2	10 µg/L	68.4	65.3	108
EP075: 4-Nitroaniline	100-01-6	2	µg/L	<2	10 µg/L	96.3	48.9	99.5
EP075: Carbazole	86-74-8	2	µg/L	<2	10 µg/L	94.5	64.3	107
EP075: 3.3`-Dichlorobenzidine	91-94-1	2	µg/L	<2	10 µg/L	109	60.3	119
EP075I: Organochlorine Pesticides (QCLot: 4136770)								
EP075: alpha-BHC	319-84-6	2	µg/L	<2	10 µg/L	81.2	64.3	110
EP075: beta-BHC	319-85-7	2	µg/L	<2	10 µg/L	92.7	53.0	107
EP075: gamma-BHC	58-89-9	2	µg/L	<2	10 µg/L	85.3	51.0	111
EP075: delta-BHC	319-86-8	2	µg/L	<2	10 µg/L	90.6	57.0	111
EP075: Heptachlor	76-44-8	2	µg/L	<2	10 µg/L	83.5	57.9	108
EP075: Aldrin	309-00-2	2	µg/L	<2	10 µg/L	84.3	56.0	112
EP075: Heptachlor epoxide	1024-57-3	2	µg/L	<2	10 µg/L	91.9	50.0	118
EP075: alpha-Endosulfan	959-98-8	2	µg/L	<2	10 µg/L	92.0	59.0	111
EP075: 4.4`-DDE	72-55-9	2	µg/L	<2	10 µg/L	93.4	53.0	115
EP075: Dieldrin	60-57-1	2	µg/L	<2	10 µg/L	93.8	59.0	115
EP075: Endrin	72-20-8	2	µg/L	<2	10 µg/L	93.3	58.0	114
EP075: beta-Endosulfan	33213-65-9	2	µg/L	<2	10 µg/L	94.9	54.0	116
EP075: 4.4`-DDD	72-54-8	2	µg/L	<2	10 µg/L	95.9	55.0	115
EP075: Endosulfan sulfate	1031-07-8	2	µg/L	<2	10 µg/L	100	52.8	114
EP075: 4.4`-DDT	50-29-3	4	µg/L	<4	10 µg/L	95.9	56.0	114
EP075: Sum of Aldrin + Dieldrin	309-00-2/60-57-1	4	µg/L	<4	----	---	---	---
EP075: Sum of DDD + DDE + DDT	72-54-8/72-5 5-9/50-2	4	µg/L	<4	----	---	---	---
EP075J: Organophosphorus Pesticides (QCLot: 4136770)								
EP075: Dichlorvos	62-73-7	2	µg/L	<2	10 µg/L	73.6	51.0	113
EP075: Dimethoate	60-51-5	2	µg/L	<2	10 µg/L	89.2	43.0	109
EP075: Diazinon	333-41-5	2	µg/L	<2	10 µg/L	90.8	49.0	113
EP075: Chlorpyrifos-methyl	5598-13-0	2	µg/L	<2	10 µg/L	92.5	54.1	116
EP075: Malathion	121-75-5	2	µg/L	<2	10 µg/L	103	54.0	124
EP075: Fenthion	55-38-9	2	µg/L	<2	10 µg/L	96.1	57.0	115
EP075: Chlorpyrifos	2921-88-2	2	µg/L	<2	10 µg/L	94.0	53.0	109
EP075: Pirimphos-ethyl	23505-41-1	2	µg/L	<2	10 µg/L	93.4	55.0	111
EP075: Chlorfenvinphos	470-90-6	2	µg/L	<2	10 µg/L	89.2	50.0	116
EP075: Prothiofos	34643-46-4	2	µg/L	<2	10 µg/L	95.6	54.0	118
EP075: Ethion	563-12-2	2	µg/L	<2	10 µg/L	99.5	51.0	117
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4136768)								
EP071: C10 - C14 Fraction	---	50	µg/L	<50	400 µg/L	76.2	55.8	112

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Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4136768) - continued								
EP071: C15 - C28 Fraction	----	100	µg/L	<100	600 µg/L	75.8	71.6	113
EP071: C29 - C36 Fraction	----	50	µg/L	<50	400 µg/L	85.8	56.0	121
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4137803)								
EP080: C6 - C9 Fraction	----	20	µg/L	<20	260 µg/L	92.3	75.0	127
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4136768)								
EP071: >C10 - C16 Fraction	----	100	µg/L	<100	500 µg/L	69.3	57.9	119
EP071: >C16 - C34 Fraction	----	100	µg/L	<100	700 µg/L	72.6	62.5	110
EP071: >C34 - C40 Fraction	----	100	µg/L	<100	300 µg/L	77.0	61.5	121
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4137803)								
EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	310 µg/L	94.9	75.0	127
EP080: BTEXN (QCLot: 4137803)								
EP080: Benzene	71-43-2	1	µg/L	<1	10 µg/L	94.1	70.0	122
EP080: Toluene	108-88-3	2	µg/L	<2	10 µg/L	104	69.0	123
EP080: Ethylbenzene	100-41-4	2	µg/L	<2	10 µg/L	99.7	70.0	120
EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	10 µg/L	98.6	69.0	121
EP080: ortho-Xylene	95-47-6	2	µg/L	<2	10 µg/L	102	72.0	122
EP080: Naphthalene	91-20-3	5	µg/L	<5	10 µg/L	108	70.0	120
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4137434)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	0.25 µg/L	90.8	72.0	130
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	0.25 µg/L	82.4	71.0	127
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.25 µg/L	84.2	68.0	131
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	0.25 µg/L	80.4	69.0	134
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.25 µg/L	84.2	65.0	140
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	0.25 µg/L	80.6	53.0	142
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4137474)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	0.25 µg/L	88.0	72.0	130
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	0.25 µg/L	78.8	71.0	127
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.25 µg/L	80.8	68.0	131
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	0.25 µg/L	84.0	69.0	134
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.25 µg/L	83.6	65.0	140
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	0.25 µg/L	88.8	53.0	142
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4137434)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	1.25 µg/L	81.5	73.0	129
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	0.25 µg/L	90.4	72.0	129
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.25 µg/L	112	72.0	129
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	0.25 µg/L	94.2	72.0	130
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	0.25 µg/L	94.2	71.0	133

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Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report		
				Result	Spike Concentration	Spike Recovery (%)	Acceptable Limits (%)
						LCS	Low	High
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4137434) - continued								
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	0.25 µg/L	89.6	69.0	130
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	0.25 µg/L	92.4	71.0	129
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	0.25 µg/L	99.8	69.0	133
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	0.25 µg/L	94.8	72.0	134
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	0.25 µg/L	89.2	65.0	144
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	0.625 µg/L	99.0	71.0	132
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4137474)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	1.25 µg/L	81.5	73.0	129
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	0.25 µg/L	77.8	72.0	129
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.25 µg/L	92.8	72.0	129
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	0.25 µg/L	78.8	72.0	130
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	0.25 µg/L	82.4	71.0	133
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	0.25 µg/L	78.6	69.0	130
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	0.25 µg/L	79.2	71.0	129
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	0.25 µg/L	89.4	69.0	133
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	0.25 µg/L	87.8	72.0	134
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	0.25 µg/L	79.2	65.0	144
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	0.625 µg/L	86.6	71.0	132
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4137434)								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	0.25 µg/L	95.0	67.0	137
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	0.625 µg/L	108	68.0	141
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	0.625 µg/L	103	62.6	147
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	0.625 µg/L	103	66.0	145
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	0.625 µg/L	100	57.6	145
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	0.25 µg/L	83.0	65.0	136
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.25 µg/L	90.6	61.0	135
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4137474)								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	0.25 µg/L	85.6	67.0	137
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	0.625 µg/L	82.8	68.0	141
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	0.625 µg/L	85.5	62.6	147
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	0.625 µg/L	86.8	66.0	145
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	0.625 µg/L	86.4	57.6	145

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Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4137474) - continued								
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	0.25 µg/L	85.2	65.0	136
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.25 µg/L	81.8	61.0	135
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4137434)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.25 µg/L	95.6	63.0	143
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	0.25 µg/L	73.0	64.0	140
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	0.25 µg/L	79.4	67.0	138
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	0.25 µg/L	90.6	71.4	144
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4137474)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.25 µg/L	77.0	63.0	143
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	0.25 µg/L	81.0	64.0	140
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	0.25 µg/L	81.2	67.0	138
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	0.25 µg/L	85.0	71.4	144

Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

Sub-Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	SpikeRecovery(%): MS	Acceptable Limits (%): Low	Acceptable Limits (%): High
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA (QCLot: 4137505)							
ES2202021-001	Anonymous	ED041G: Sulfate as SO4 - Turbidimetric	14808-79-8	10 mg/L	# Not Determined	70.0	130
ED045G: Chloride by Discrete Analyser (QCLot: 4137508)							
ES2202047-012	BUR_BH125	ED045G: Chloride	16887-00-6	50 mg/L	# Not Determined	70.0	130
EG020F: Dissolved Metals by ICP-MS (QCLot: 4139027)							
ES2201966-005	Anonymous	EG020A-F: Arsenic	7440-38-2	1 mg/L	83.2	70.0	130
		EG020A-F: Cadmium	7440-43-9	0.25 mg/L	86.0	70.0	130
		EG020A-F: Chromium	7440-47-3	1 mg/L	99.7	70.0	130
		EG020A-F: Copper	7440-50-8	1 mg/L	85.7	70.0	130
		EG020A-F: Lead	7439-92-1	1 mg/L	82.0	70.0	130
		EG020A-F: Nickel	7440-02-0	1 mg/L	87.0	70.0	130
		EG020A-F: Zinc	7440-66-6	1 mg/L	87.2	70.0	130
EG020T: Total Metals by ICP-MS (QCLot: 4139064)							
ES2201683-035	Anonymous	EG020A-T: Arsenic	7440-38-2	1 mg/L	101	70.0	130

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Sub-Matrix: **WATER**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EG020T: Total Metals by ICP-MS (QCLot: 4139064) - continued							
ES2201683-035	Anonymous	EG020A-T: Cadmium	7440-43-9	0.25 mg/L	99.7	70.0	130
		EG020A-T: Chromium	7440-47-3	1 mg/L	102	70.0	130
		EG020A-T: Copper	7440-50-8	1 mg/L	102	70.0	130
		EG020A-T: Lead	7439-92-1	1 mg/L	101	70.0	130
		EG020A-T: Nickel	7440-02-0	1 mg/L	100	70.0	130
		EG020A-T: Zinc	7440-66-6	1 mg/L	100	70.0	130
EG035F: Dissolved Mercury by FIMS (QCLot: 4139028)							
ES2201942-001	Anonymous	EG035F: Mercury	7439-97-6	0.01 mg/L	# 40.6	70.0	130
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4139154)							
ES2201969-003	Anonymous	EG035T: Mercury	7439-97-6	0.01 mg/L	96.2	70.0	130
EK055G: Ammonia as N by Discrete Analyser (QCLot: 4136962)							
ES2201979-001	Anonymous	EK055G: Ammonia as N	7664-41-7	1 mg/L	# Not Determined	70.0	130
EK057G: Nitrite as N by Discrete Analyser (QCLot: 4137507)							
ES2202047-012	BUR_BH125	EK057G: Nitrite as N	14797-65-0	0.5 mg/L	109	70.0	130
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QCLot: 4136963)							
ES2201979-001	Anonymous	EK059G: Nitrite + Nitrate as N	----	0.5 mg/L	94.4	70.0	130
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser (QCLot: 4136959)							
ES2201979-002	Anonymous	EK061G: Total Kjeldahl Nitrogen as N	----	100 mg/L	94.0	70.0	130
EK067G: Total Phosphorus as P by Discrete Analyser (QCLot: 4136958)							
ES2201979-002	Anonymous	EK067G: Total Phosphorus as P	----	20 mg/L	97.9	70.0	130
EK071G: Reactive Phosphorus as P by discrete analyser (QCLot: 4137506)							
ES2202047-012	BUR_BH125	EK071G: Reactive Phosphorus as P	14265-44-2	0.5 mg/L	112	70.0	130
EP074E: Halogenated Aliphatic Compounds (QCLot: 4137802)							
ES2201683-020	Anonymous	EP074: 1.1-Dichloroethene	75-35-4	25 µg/L	118	70.0	130
		EP074: Trichloroethene	79-01-6	25 µg/L	103	70.0	130
EP074F: Halogenated Aromatic Compounds (QCLot: 4137802)							
ES2201683-020	Anonymous	EP074: Chlorobenzene	108-90-7	25 µg/L	108	70.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4137803)							
ES2201683-020	Anonymous	EP080: C6 - C9 Fraction	----	325 µg/L	108	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4137803)							
ES2201683-020	Anonymous	EP080: C6 - C10 Fraction	C6_C10	375 µg/L	109	70.0	130
EP080: BTEXN (QCLot: 4137803)							
ES2201683-020	Anonymous	EP080: Benzene	71-43-2	25 µg/L	102	70.0	130

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Sub-Matrix: **WATER**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP080: BTEXN (QCLot: 4137803) - continued							
ES2201683-020	Anonymous	EP080: Toluene	108-88-3	25 µg/L	108	70.0	130
		EP080: Ethylbenzene	100-41-4	25 µg/L	111	70.0	130
		EP080: meta- & para-Xylene	108-38-3 106-42-3	25 µg/L	113	70.0	130
		EP080: ortho-Xylene	95-47-6	25 µg/L	117	70.0	130
		EP080: Naphthalene	91-20-3	25 µg/L	108	70.0	130
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4137474)							
ES2202142-003	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.25 µg/L	106	72.0	130
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.25 µg/L	90.0	71.0	127
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.25 µg/L	79.0	68.0	131
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.25 µg/L	99.8	69.0	134
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.25 µg/L	106	65.0	140
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.25 µg/L	101	53.0	142
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4137474)							
ES2202142-003	Anonymous	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	1.25 µg/L	76.8	73.0	129
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.25 µg/L	85.2	72.0	129
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.25 µg/L	111	72.0	129
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.25 µg/L	91.4	72.0	130
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.25 µg/L	80.2	71.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.25 µg/L	87.4	69.0	130
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.25 µg/L	86.6	71.0	129
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.25 µg/L	98.6	69.0	133
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.25 µg/L	103	72.0	134
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.25 µg/L	81.2	65.0	144
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.625 µg/L	93.0	71.0	132
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4137474)							
ES2202142-003	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.25 µg/L	87.8	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.625 µg/L	97.0	68.0	141
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.625 µg/L	93.4	62.6	147
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.625 µg/L	99.2	66.0	145
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.625 µg/L	99.8	57.6	145
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.25 µg/L	87.0	65.0	136
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.25 µg/L	84.4	61.0	135

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Sub-Matrix: **WATER**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4137474)							
ES2202142-003	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.25 µg/L	87.2	63.0	143
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.25 µg/L	90.2	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.25 µg/L	88.6	67.0	138
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.25 µg/L	114	71.4	144

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ALS Environmental

QA/QC Compliance Assessment to assist with Quality Review

Work Order	: **ES2202047**	Page	: 1 of 15
Client	: **ENVIRONMENTAL RESOURCES MANAGEMENT (ERM)**	Laboratory	: Environmental Division Sydney
Contact	: NICHOLAS GRBICH	Telephone	: +61-2-8784 8555
Project	: 0628507	Date Samples Received	: 21-Jan-2022
Site	: ----	Issue Date	: 01-Feb-2022
Sampler	: TAJ MONDON	No. of samples received	: 24
Order number	: ----	No. of samples analysed	: 23

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers : Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- **NO Method Blank value outliers occur.**
- **NO Duplicate outliers occur.**
- **Laboratory Control outliers exist - please see following pages for full details.**
- **Matrix Spike outliers exist - please see following pages for full details.**
- **For all regular sample matrices, NO surrogate recovery outliers occur.**

Outliers : Analysis Holding Time Compliance

- **Analysis Holding Time Outliers exist - please see following pages for full details.**

Outliers : Frequency of Quality Control Samples

- **Quality Control Sample Frequency Outliers exist - please see following pages for full details.**

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Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **WATER**

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Laboratory Control Spike (LCS) Recoveries							
EK067G: Total Phosphorus as P by Discrete Analyser	QC-MRG2-41369580	----	**Total Phosphorus as P**	----	109 %	72.0-108%	**Recovery greater than upper control limit**
EP075B: Polynuclear Aromatic Hydrocarbons	QC-4136770-002	----	**2-Chloronaphthalene**	91-58-7	59.4 %	60.6-106%	**Recovery less than lower control limit**
EP075E: Nitroaromatics and Ketones	QC-4136770-002	----	**1-Naphthylamine**	134-32-7	116 %	46.8-102%	**Recovery greater than upper control limit**
EP075E: Nitroaromatics and Ketones	QC-4136770-002	----	**Phenacetin**	62-44-2	103 %	57.8-101%	**Recovery greater than upper control limit**
EP075F: Haloethers	QC-4136770-002	----	**Bis(2-chloroethyl) ether**	111-44-4	59.9 %	69.1-112%	**Recovery less than lower control limit**
Matrix Spike (MS) Recoveries							
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA	ES2202021--001	Anonymous	**Sulfate as SO4 - Turbidimetric**	14808-79-8	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**
ED045G: Chloride by Discrete Analyser	ES2202047--012	BUR_BH125	**Chloride**	16887-00-6	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**
EG035F: Dissolved Mercury by FIMS	ES2201942--001	Anonymous	**Mercury**	7439-97-6	40.6 %	70.0-130%	**Recovery less than lower data quality objective**
EK055G: Ammonia as N by Discrete Analyser	ES2201979--001	Anonymous	**Ammonia as N**	7664-41-7	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**

Outliers : Analysis Holding Time Compliance

Matrix: **WATER**

Method / Container / Client Sample ID(s)	Extraction / Preparation			Analysis		
	Date extracted	Due for extraction	Days overdue	Date analysed	Due for analysis	Days overdue
EK057G: Nitrite as N by Discrete Analyser						
Clear Plastic Bottle - Natural						
BUR_BH125	----	----	----	25-Jan-2022	23-Jan-2022	**2**
EK071G: Reactive Phosphorus as P by discrete analyser						
Clear Plastic Bottle - Natural						
BUR_BH125	----	----	----	25-Jan-2022	23-Jan-2022	**2**
EP080/071: Total Petroleum Hydrocarbons						
Amber VOC Vial - Sulfuric Acid						
TRIP BLANK	28-Jan-2022	27-Jan-2022	**1**	28-Jan-2022	27-Jan-2022	**1**
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions						
Amber VOC Vial - Sulfuric Acid						
TRIP BLANK	28-Jan-2022	27-Jan-2022	**1**	28-Jan-2022	27-Jan-2022	**1**
EP080: BTEXN						

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Matrix: **WATER**

Method / Container / Client Sample ID(s)		Extraction / Preparation: Date extracted	Due for extraction	Days overdue	Analysis: Date analysed	Due for analysis	Days overdue
EP080: BTEXN - Analysis Holding Time Compliance							
Amber VOC Vial - Sulfuric Acid							
TRIP SPIKE,	TRIP BLANK	28-Jan-2022	27-Jan-2022	1	28-Jan-2022	27-Jan-2022	1

Outliers : Frequency of Quality Control Samples

Matrix: **WATER**

Quality Control Sample Type / Method	Count: QC	Count: Regular	Rate (%): Actual	Rate (%): Expected	Quality Control Specification
Laboratory Duplicates (DUP)					
Ammonia as N by Discrete analyser	1	19	5.26	10.00	NEPM 2013 B3 & ALS QC Standard
Nitrite and Nitrate as N (NOx) by Discrete Analyser	1	17	5.88	10.00	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (GC/MS - SIM)	0	6	0.00	10.00	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	2	31	6.45	10.00	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds	0	2	0.00	10.00	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	0	7	0.00	10.00	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)					
PAH/Phenols (GC/MS - SIM)	0	6	0.00	5.00	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	1	31	3.23	5.00	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds	0	2	0.00	5.00	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	0	7	0.00	5.00	NEPM 2013 B3 & ALS QC Standard

Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for ***VOC in soils*** vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation: Date extracted	Due for extraction	Evaluation	Analysis: Date analysed	Due for analysis	Evaluation
EA015: Total Dissolved Solids dried at 180 ± 5 °C							
Clear Plastic Bottle - Natural (EA015H)							
BUR_BH125	**21-Jan-2022**	**----**	----	----	**25-Jan-2022**	28-Jan-2022	✓
ED037P: Alkalinity by PC Titrator							
Clear Plastic Bottle - Natural (ED037-P)							
BUR_BH125	**21-Jan-2022**	**—**	---	---	**25-Jan-2022**	04-Feb-2022	✓
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA							
Clear Plastic Bottle - Natural (ED041G)							
BUR_BH125	**21-Jan-2022**	**—**	---	---	**25-Jan-2022**	18-Feb-2022	✓

Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
ED045G: Chloride by Discrete Analyser							
Clear Plastic Bottle - Natural (ED045G)							
BUR_BH125	21-Jan-2022	----	----	----	25-Jan-2022	18-Feb-2022	✓
ED093F: Dissolved Major Cations							
Clear Plastic Bottle - Nitric Acid; Filtered (ED093F)							
BUR_BH125	21-Jan-2022	----	----	----	27-Jan-2022	18-Feb-2022	✓
EG020F: Dissolved Metals by ICP-MS							
Clear Plastic Bottle - Nitric Acid; Filtered (EG020A-F)							
BUR_BH125	21-Jan-2022	----	----	----	27-Jan-2022	20-Jul-2022	✓
EG020T: Total Metals by ICP-MS							
Clear Plastic Bottle - Nitric Acid; Unfiltered (EG020A-T)							
R01_220121	21-Jan-2022	27-Jan-2022	20-Jul-2022	✓	27-Jan-2022	20-Jul-2022	✓
EG035F: Dissolved Mercury by FIMS							
Clear Plastic Bottle - Nitric Acid; Filtered (EG035F)							
BUR_BH125	21-Jan-2022	----	----	----	28-Jan-2022	18-Feb-2022	✓
EG035T: Total Recoverable Mercury by FIMS							
Clear Plastic Bottle - Nitric Acid; Unfiltered (EG035T)							
R01_220121	21-Jan-2022	----	----	----	28-Jan-2022	18-Feb-2022	✓
EK055G: Ammonia as N by Discrete Analyser							
Clear Plastic Bottle - Sulfuric Acid (EK055G)							
BUR_BH125, R01_220121	21-Jan-2022	----	----	----	25-Jan-2022	18-Feb-2022	✓
EK057G: Nitrite as N by Discrete Analyser							
Clear Plastic Bottle - Natural (EK057G)							
BUR_BH125	21-Jan-2022	----	----	----	25-Jan-2022	23-Jan-2022	×
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser							
Clear Plastic Bottle - Sulfuric Acid (EK059G)							
BUR_BH125, R01_220121	21-Jan-2022	----	----	----	25-Jan-2022	18-Feb-2022	✓
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser							
Clear Plastic Bottle - Sulfuric Acid (EK061G)							
BUR_BH125, R01_220121	21-Jan-2022	25-Jan-2022	18-Feb-2022	✓	25-Jan-2022	18-Feb-2022	✓
EK067G: Total Phosphorus as P by Discrete Analyser							
Clear Plastic Bottle - Sulfuric Acid (EK067G)							
BUR_BH125, R01_220121	21-Jan-2022	25-Jan-2022	18-Feb-2022	✓	25-Jan-2022	18-Feb-2022	✓
EK071G: Reactive Phosphorus as P by discrete analyser							
Clear Plastic Bottle - Natural (EK071G)							
BUR_BH125	21-Jan-2022	----	----	----	25-Jan-2022	23-Jan-2022	×
EP074A: Monocyclic Aromatic Hydrocarbons							
Amber VOC Vial - Sulfuric Acid (EP074)							
BUR_BH125, R01_220121	21-Jan-2022	28-Jan-2022	04-Feb-2022	✓	28-Jan-2022	04-Feb-2022	✓

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Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)		Sample Date	Extraction / Preparation			Analysis		
			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP074B: Oxygenated Compounds								
Amber VOC Vial - Sulfuric Acid (EP074)								
BUR_BH125,	R01_220121	**21-Jan-2022**	**28-Jan-2022**	04-Feb-2022	✓	**28-Jan-2022**	04-Feb-2022	✓
EP074C: Sulfonated Compounds								
Amber VOC Vial - Sulfuric Acid (EP074)								
BUR_BH125,	R01_220121	**21-Jan-2022**	**28-Jan-2022**	04-Feb-2022	✓	**28-Jan-2022**	04-Feb-2022	✓
EP074D: Fumigants								
Amber VOC Vial - Sulfuric Acid (EP074)								
BUR_BH125,	R01_220121	**21-Jan-2022**	**28-Jan-2022**	04-Feb-2022	✓	**28-Jan-2022**	04-Feb-2022	✓
EP074E: Halogenated Aliphatic Compounds								
Amber VOC Vial - Sulfuric Acid (EP074)								
BUR_BH125,	R01_220121	**21-Jan-2022**	**28-Jan-2022**	04-Feb-2022	✓	**28-Jan-2022**	04-Feb-2022	✓
EP074F: Halogenated Aromatic Compounds								
Amber VOC Vial - Sulfuric Acid (EP074)								
BUR_BH125,	R01_220121	**21-Jan-2022**	**28-Jan-2022**	04-Feb-2022	✓	**28-Jan-2022**	04-Feb-2022	✓
EP074G: Trihalomethanes								
Amber VOC Vial - Sulfuric Acid (EP074)								
BUR_BH125,	R01_220121	**21-Jan-2022**	**28-Jan-2022**	04-Feb-2022	✓	**28-Jan-2022**	04-Feb-2022	✓
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Amber Glass Bottle - Unpreserved (EP075(SIM))								
BUR_BH125,	R01_220121	**21-Jan-2022**	**25-Jan-2022**	28-Jan-2022	✓	**28-Jan-2022**	06-Mar-2022	✓
EP075A: Phenolic Compounds								
Amber Glass Bottle - Unpreserved (EP075)								
BUR_BH125,	R01_220121	**21-Jan-2022**	**25-Jan-2022**	28-Jan-2022	✓	**28-Jan-2022**	06-Mar-2022	✓
EP075B: Polynuclear Aromatic Hydrocarbons								
Amber Glass Bottle - Unpreserved (EP075)								
BUR_BH125,	R01_220121	**21-Jan-2022**	**25-Jan-2022**	28-Jan-2022	✓	**28-Jan-2022**	06-Mar-2022	✓
EP075C: Phthalate Esters								
Amber Glass Bottle - Unpreserved (EP075)								
BUR_BH125,	R01_220121	**21-Jan-2022**	**25-Jan-2022**	28-Jan-2022	✓	**28-Jan-2022**	06-Mar-2022	✓
EP075D: Nitrosamines								
Amber Glass Bottle - Unpreserved (EP075)								
BUR_BH125,	R01_220121	**21-Jan-2022**	**25-Jan-2022**	28-Jan-2022	✓	**28-Jan-2022**	06-Mar-2022	✓
EP075E: Nitroaromatics and Ketones								
Amber Glass Bottle - Unpreserved (EP075)								
BUR_BH125,	R01_220121	**21-Jan-2022**	**25-Jan-2022**	28-Jan-2022	✓	**28-Jan-2022**	06-Mar-2022	✓
EP075F: Haloethers								
Amber Glass Bottle - Unpreserved (EP075)								
BUR_BH125,	R01_220121	**21-Jan-2022**	**25-Jan-2022**	28-Jan-2022	✓	**28-Jan-2022**	06-Mar-2022	✓

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Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)		Sample Date	Extraction / Preparation			Analysis		
			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP075G: Chlorinated Hydrocarbons								
Amber Glass Bottle - Unpreserved (EP075)								
BUR_BH125,	R01_220121	**21-Jan-2022**	**25-Jan-2022**	28-Jan-2022	✓	**28-Jan-2022**	06-Mar-2022	✓
EP075H: Anilines and Benzidines								
Amber Glass Bottle - Unpreserved (EP075)								
BUR_BH125,	R01_220121	**21-Jan-2022**	**25-Jan-2022**	28-Jan-2022	✓	**28-Jan-2022**	06-Mar-2022	✓
EP075I: Organochlorine Pesticides								
Amber Glass Bottle - Unpreserved (EP075)								
BUR_BH125,	R01_220121	**21-Jan-2022**	**25-Jan-2022**	28-Jan-2022	✓	**28-Jan-2022**	06-Mar-2022	✓
EP075J: Organophosphorus Pesticides								
Amber Glass Bottle - Unpreserved (EP075)								
BUR_BH125,	R01_220121	**21-Jan-2022**	**25-Jan-2022**	28-Jan-2022	✓	**28-Jan-2022**	06-Mar-2022	✓
EP080/071: Total Petroleum Hydrocarbons								
Amber Glass Bottle - Unpreserved (EP071)								
BUR_BH125,	R01_220121	**21-Jan-2022**	**25-Jan-2022**	28-Jan-2022	✓	**28-Jan-2022**	06-Mar-2022	✓
Amber VOC Vial - Sulfuric Acid (EP080)								
TRIP BLANK		**13-Jan-2022**	**28-Jan-2022**	27-Jan-2022	×	**28-Jan-2022**	27-Jan-2022	×
Amber VOC Vial - Sulfuric Acid (EP080)								
BUR_BH125,	R01_220121	**21-Jan-2022**	**28-Jan-2022**	04-Feb-2022	✓	**28-Jan-2022**	04-Feb-2022	✓
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
Amber Glass Bottle - Unpreserved (EP071)								
BUR_BH125,	R01_220121	**21-Jan-2022**	**25-Jan-2022**	28-Jan-2022	✓	**28-Jan-2022**	06-Mar-2022	✓
Amber VOC Vial - Sulfuric Acid (EP080)								
TRIP BLANK		**13-Jan-2022**	**28-Jan-2022**	27-Jan-2022	×	**28-Jan-2022**	27-Jan-2022	×
Amber VOC Vial - Sulfuric Acid (EP080)								
BUR_BH125,	R01_220121	**21-Jan-2022**	**28-Jan-2022**	04-Feb-2022	✓	**28-Jan-2022**	04-Feb-2022	✓
EP080: BTEXN								
Amber VOC Vial - Sulfuric Acid (EP080)								
TRIP SPIKE,	TRIP BLANK	**13-Jan-2022**	**28-Jan-2022**	27-Jan-2022	×	**28-Jan-2022**	27-Jan-2022	×
Amber VOC Vial - Sulfuric Acid (EP080)								
BUR_BH125,	R01_220121	**21-Jan-2022**	**28-Jan-2022**	04-Feb-2022	✓	**28-Jan-2022**	04-Feb-2022	✓

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Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)		Sample Date	Extraction / Preparation			Analysis		
			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP231A: Perfluoroalkyl Sulfonic Acids								
HDPE (no PTFE) (EP231X)								
R01_220117		**17-Jan-2022**	**25-Jan-2022**	16-Jul-2022	✓	**27-Jan-2022**	16-Jul-2022	✓
HDPE (no PTFE) (EP231X)								
SMW_BH051,	SMW_BH035,	**18-Jan-2022**	**25-Jan-2022**	17-Jul-2022	✓	**27-Jan-2022**	17-Jul-2022	✓
SMW_BH035_S,	R01_220118							
HDPE (no PTFE) (EP231X)								
D01_220119,	T01_220119,	**19-Jan-2022**	**25-Jan-2022**	18-Jul-2022	✓	**27-Jan-2022**	18-Jul-2022	✓
SMW_BH120,	SMW_BH019,							
R01_220119,	SMW_BH038							
HDPE (no PTFE) (EP231X)								
S51,	S54,	**20-Jan-2022**	**25-Jan-2022**	19-Jul-2022	✓	**27-Jan-2022**	19-Jul-2022	✓
S02_d,	S06,							
S40_d,	S40_S,							
BUR_MW108,	R01_220120							
HDPE (no PTFE) (EP231X)								
BUR_BH125,	R01_220121	**21-Jan-2022**	**25-Jan-2022**	20-Jul-2022	✓	**27-Jan-2022**	20-Jul-2022	✓
EP231B: Perfluoroalkyl Carboxylic Acids								
HDPE (no PTFE) (EP231X)								
R01_220117		**17-Jan-2022**	**25-Jan-2022**	16-Jul-2022	✓	**27-Jan-2022**	16-Jul-2022	✓
HDPE (no PTFE) (EP231X)								
SMW_BH051,	SMW_BH035,	**18-Jan-2022**	**25-Jan-2022**	17-Jul-2022	✓	**27-Jan-2022**	17-Jul-2022	✓
SMW_BH035_S,	R01_220118							
HDPE (no PTFE) (EP231X)								
D01_220119,	T01_220119,	**19-Jan-2022**	**25-Jan-2022**	18-Jul-2022	✓	**27-Jan-2022**	18-Jul-2022	✓
SMW_BH120,	SMW_BH019,							
R01_220119,	SMW_BH038							
HDPE (no PTFE) (EP231X)								
S51,	S54,	**20-Jan-2022**	**25-Jan-2022**	19-Jul-2022	✓	**27-Jan-2022**	19-Jul-2022	✓
S02_d,	S06,							
S40_d,	S40_S,							
BUR_MW108,	R01_220120							
HDPE (no PTFE) (EP231X)								
BUR_BH125,	R01_220121	**21-Jan-2022**	**25-Jan-2022**	20-Jul-2022	✓	**27-Jan-2022**	20-Jul-2022	✓

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Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP231C: Perfluoroalkyl Sulfonamides							
HDPE (no PTFE) (EP231X) R01_220117	17-Jan-2022	25-Jan-2022	16-Jul-2022	✓	27-Jan-2022	16-Jul-2022	✓
HDPE (no PTFE) (EP231X) SMW_BH051, SMW_BH035_S, SMW_BH035, R01_220118	18-Jan-2022	25-Jan-2022	17-Jul-2022	✓	27-Jan-2022	17-Jul-2022	✓
HDPE (no PTFE) (EP231X) D01_220119, SMW_BH120, R01_220119, T01_220119, SMW_BH019, SMW_BH038	19-Jan-2022	25-Jan-2022	18-Jul-2022	✓	27-Jan-2022	18-Jul-2022	✓
HDPE (no PTFE) (EP231X) S51, S02_d, S40_d, BUR_MW108, S54, S06, S40_S, R01_220120	20-Jan-2022	25-Jan-2022	19-Jul-2022	✓	27-Jan-2022	19-Jul-2022	✓
HDPE (no PTFE) (EP231X) BUR_BH125, R01_220121	21-Jan-2022	25-Jan-2022	20-Jul-2022	✓	27-Jan-2022	20-Jul-2022	✓
EP231D: (n:2) Fluorotelomer Sulfonic Acids							
HDPE (no PTFE) (EP231X) R01_220117	17-Jan-2022	25-Jan-2022	16-Jul-2022	✓	27-Jan-2022	16-Jul-2022	✓
HDPE (no PTFE) (EP231X) SMW_BH051, SMW_BH035_S, SMW_BH035, R01_220118	18-Jan-2022	25-Jan-2022	17-Jul-2022	✓	27-Jan-2022	17-Jul-2022	✓
HDPE (no PTFE) (EP231X) D01_220119, SMW_BH120, R01_220119, T01_220119, SMW_BH019, SMW_BH038	19-Jan-2022	25-Jan-2022	18-Jul-2022	✓	27-Jan-2022	18-Jul-2022	✓
HDPE (no PTFE) (EP231X) S51, S02_d, S40_d, BUR_MW108, S54, S06, S40_S, R01_220120	20-Jan-2022	25-Jan-2022	19-Jul-2022	✓	27-Jan-2022	19-Jul-2022	✓
HDPE (no PTFE) (EP231X) BUR_BH125, R01_220121	21-Jan-2022	25-Jan-2022	20-Jul-2022	✓	27-Jan-2022	20-Jul-2022	✓

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Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP231P: PFAS Sums							
HDPE (no PTFE) (EP231X)							
R01_220117	**17-Jan-2022**	**25-Jan-2022**	16-Jul-2022	✓	**27-Jan-2022**	16-Jul-2022	✓
HDPE (no PTFE) (EP231X)							
SMW_BH051, SMW_BH035, SMW_BH035_S, R01_220118	**18-Jan-2022**	**25-Jan-2022**	17-Jul-2022	✓	**27-Jan-2022**	17-Jul-2022	✓
HDPE (no PTFE) (EP231X)							
D01_220119, T01_220119, SMW_BH120, SMW_BH019, R01_220119, SMW_BH038	**19-Jan-2022**	**25-Jan-2022**	18-Jul-2022	✓	**27-Jan-2022**	18-Jul-2022	✓
HDPE (no PTFE) (EP231X)							
S51, S54, S02_d, S06, S40_d, S40_S, BUR_MW108, R01_220120	**20-Jan-2022**	**25-Jan-2022**	19-Jul-2022	✓	**27-Jan-2022**	19-Jul-2022	✓
HDPE (no PTFE) (EP231X)							
BUR_BH125, R01_220121	**21-Jan-2022**	**25-Jan-2022**	20-Jul-2022	✓	**27-Jan-2022**	20-Jul-2022	✓

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Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(were) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

Matrix: **WATER**

Evaluation: ✗ = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Laboratory Duplicates (DUP)							
Alkalinity by PC Titrator	ED037-P	2	17	**11.76**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Ammonia as N by Discrete analyser	EK055G	1	19	**5.26**	**10.00**	✗	NEPM 2013 B3 & ALS QC Standard
Chloride by Discrete Analyser	ED045G	2	11	**18.18**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Mercury by FIMS	EG035F	2	17	**11.76**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Metals by ICP-MS - Suite A	EG020A-F	2	18	**11.11**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Major Cations - Dissolved	ED093F	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	1	17	**5.88**	**10.00**	✗	NEPM 2013 B3 & ALS QC Standard
Nitrite as N by Discrete Analyser	EK057G	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	0	6	**0.00**	**10.00**	✗	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	2	31	**6.45**	**10.00**	✗	NEPM 2013 B3 & ALS QC Standard
Reactive Phosphorus as P-By Discrete Analyser	EK071G	1	4	**25.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds	EP075	0	2	**0.00**	**10.00**	✗	NEPM 2013 B3 & ALS QC Standard
Sulfate (Turbidimetric) as SO4 2- by Discrete Analyser	ED041G	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Dissolved Solids (High Level)	EA015H	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Kjeldahl Nitrogen as N By Discrete Analyser	EK061G	2	17	**11.76**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-MS - Suite A	EG020A-T	2	15	**13.33**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Phosphorus as P By Discrete Analyser	EK067G	2	19	**10.53**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	0	7	**0.00**	**10.00**	✗	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	2	17	**11.76**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds	EP074	2	16	**12.50**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Alkalinity by PC Titrator	ED037-P	2	17	**11.76**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Ammonia as N by Discrete analyser	EK055G	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Chloride by Discrete Analyser	ED045G	2	11	**18.18**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Mercury by FIMS	EG035F	1	17	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Metals by ICP-MS - Suite A	EG020A-F	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Major Cations - Dissolved	ED093F	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	1	17	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite as N by Discrete Analyser	EK057G	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	1	6	**16.67**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	2	31	**6.45**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Reactive Phosphorus as P-By Discrete Analyser	EK071G	1	4	**25.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds	EP075	1	2	**50.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Sulfate (Turbidimetric) as SO4 2- by Discrete Analyser	ED041G	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Dissolved Solids (High Level)	EA015H	3	20	**15.00**	**15.00**	✓	NEPM 2013 B3 & ALS QC Standard

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Matrix: **WATER**

Evaluation: ✗ = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Laboratory Control Samples (LCS) - Continued							
Total Kjeldahl Nitrogen as N By Discrete Analyser	EK061G	3	17	**17.65**	**15.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-MS - Suite A	EG020A-T	1	15	**6.67**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Phosphorus as P By Discrete Analyser	EK067G	3	19	**15.79**	**15.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	7	**14.29**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	17	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds	EP074	1	16	**6.25**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Ammonia as N by Discrete analyser	EK055G	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Chloride by Discrete Analyser	ED045G	1	11	**9.09**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Mercury by FIMS	EG035F	1	17	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Metals by ICP-MS - Suite A	EG020A-F	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Major Cations - Dissolved	ED093F	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	1	17	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite as N by Discrete Analyser	EK057G	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	1	6	**16.67**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	2	31	**6.45**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Reactive Phosphorus as P-By Discrete Analyser	EK071G	1	4	**25.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds	EP075	1	2	**50.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Sulfate (Turbidimetric) as SO4 2- by Discrete Analyser	ED041G	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Dissolved Solids (High Level)	EA015H	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Kjeldahl Nitrogen as N By Discrete Analyser	EK061G	1	17	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-MS - Suite A	EG020A-T	1	15	**6.67**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Phosphorus as P By Discrete Analyser	EK067G	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	7	**14.29**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	17	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds	EP074	1	16	**6.25**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Ammonia as N by Discrete analyser	EK055G	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Chloride by Discrete Analyser	ED045G	1	11	**9.09**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Mercury by FIMS	EG035F	1	17	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Metals by ICP-MS - Suite A	EG020A-F	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	1	17	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite as N by Discrete Analyser	EK057G	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	0	6	**0.00**	**5.00**	✗	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	31	**3.23**	**5.00**	✗	NEPM 2013 B3 & ALS QC Standard
Reactive Phosphorus as P-By Discrete Analyser	EK071G	1	4	**25.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds	EP075	0	2	**0.00**	**5.00**	✗	NEPM 2013 B3 & ALS QC Standard
Sulfate (Turbidimetric) as SO4 2- by Discrete Analyser	ED041G	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard

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Matrix: **WATER**

Evaluation: ✗ = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Matrix Spikes (MS) - Continued							
Total Kjeldahl Nitrogen as N By Discrete Analyser	EK061G	1	17	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-MS - Suite A	EG020A-T	1	15	**6.67**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Phosphorus as P By Discrete Analyser	EK067G	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	0	7	**0.00**	**5.00**	✗	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	17	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds	EP074	1	16	**6.25**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard

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Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
Total Dissolved Solids (High Level)	EA015H	WATER	In house: Referenced to APHA 2540C. A gravimetric procedure that determines the amount of `filterable` residue in an aqueous sample. A well-mixed sample is filtered through a glass fibre filter (1.2um). The filtrate is evaporated to dryness and dried to constant weight at 180+/-5C. This method is compliant with NEPM Schedule B(3)
Alkalinity by PC Titrator	ED037-P	WATER	In house: Referenced to APHA 2320 B This procedure determines alkalinity by automated measurement (e.g. PC Titrate) on a settled supernatant aliquot of the sample using pH 4.5 for indicating the total alkalinity end-point. This method is compliant with NEPM Schedule B(3)
Sulfate (Turbidimetric) as SO4 2- by Discrete Analyser	ED041G	WATER	In house: Referenced to APHA 4500-SO4. Dissolved sulfate is determined in a 0.45um filtered sample. Sulfate ions are converted to a barium sulfate suspension in an acetic acid medium with barium chloride. Light absorbance of the BaSO4 suspension is measured by a photometer and the SO4-2 concentration is determined by comparison of the reading with a standard curve. This method is compliant with NEPM Schedule B(3)
Chloride by Discrete Analyser	ED045G	WATER	In house: Referenced to APHA 4500 Cl - G.The thiocyanate ion is liberated from mercuric thiocyanate through sequestration of mercury by the chloride ion to form non-ionised mercuric chloride.in the presence of ferric ions the librated thiocynate forms highly-coloured ferric thiocynate which is measured at 480 nm APHA seal method 2 017-1-L
Major Cations - Dissolved	ED093F	WATER	In house: Referenced to APHA 3120 and 3125; USEPA SW 846 - 6010 and 6020; Cations are determined by either ICP-AES or ICP-MS techniques. This method is compliant with NEPM Schedule B(3) Sodium Adsorption Ratio is calculated from Ca, Mg and Na which determined by ALS in house method QWI-EN/ED093F. This method is compliant with NEPM Schedule B(3) Hardness parameters are calculated based on APHA 2340 B. This method is compliant with NEPM Schedule B(3)
Dissolved Metals by ICP-MS - Suite A	EG020A-F	WATER	In house: Referenced to APHA 3125; USEPA SW846 - 6020, ALS QWI-EN/EG020. Samples are 0.45µm filtered prior to analysis. The ICPMS technique utilizes a highly efficient argon plasma to ionize selected elements. Ions are then passed into a high vacuum mass spectrometer, which separates the analytes based on their distinct mass to charge ratios prior to their measurement by a discrete dynode ion detector.
Total Metals by ICP-MS - Suite A	EG020A-T	WATER	In house: Referenced to APHA 3125; USEPA SW846 - 6020, ALS QWI-EN/EG020. The ICPMS technique utilizes a highly efficient argon plasma to ionize selected elements. Ions are then passed into a high vacuum mass spectrometer, which separates the analytes based on their distinct mass to charge ratios prior to their measurement by a discrete dynode ion detector.
Dissolved Mercury by FIMS	EG035F	WATER	In house: Referenced to APHA 3112 Hg - B (Flow-injection (SnCl2)(Cold Vapour generation) AAS) Samples are 0.45µm filtered prior to analysis. FIM-AAS is an automated flameless atomic absorption technique. A bromate/bromide reagent is used to oxidise any organic mercury compounds in the filtered sample. The ionic mercury is reduced online to atomic mercury vapour by SnCl2 which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM Schedule B(3).

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Analytical Methods	Method	Matrix	Method Descriptions
Total Mercury by FIMS	EG035T	WATER	In house: Referenced to APHA 3112 Hg - B (Flow-injection (SnCl2)(Cold Vapour generation) AAS) FIM-AAS is an automated flameless atomic absorption technique. A bromate/bromide reagent is used to oxidise any organic mercury compounds in the unfiltered sample. The ionic mercury is reduced online to atomic mercury vapour by SnCl2 which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM Schedule B(3).
Ammonia as N by Discrete analyser	EK055G	WATER	In house: Referenced to APHA 4500-NH3 G Ammonia is determined by direct colorimetry by Discrete Analyser. This method is compliant with NEPM Schedule B(3)
Nitrite as N by Discrete Analyser	EK057G	WATER	In house: Referenced to APHA 4500-NO2- B. Nitrite is determined by direct colourimetry by Discrete Analyser. This method is compliant with NEPM Schedule B(3)
Nitrate as N by Discrete Analyser	EK058G	WATER	In house: Referenced to APHA 4500-NO3- F. Nitrate is reduced to nitrite by way of a chemical reduction followed by quantification by Discrete Analyser. Nitrite is determined seperately by direct colourimetry and result for Nitrate calculated as the difference between the two results. This method is compliant with NEPM Schedule B(3)
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	WATER	In house: Referenced to APHA 4500-NO3- F. Combined oxidised Nitrogen (NO2+NO3) is determined by Chemical Reduction and direct colourimetry by Discrete Analyser. This method is compliant with NEPM Schedule B(3)
Total Kjeldahl Nitrogen as N By Discrete Analyser	EK061G	WATER	In house: Referenced to APHA 4500-Norg D (In house). An aliquot of sample is digested using a high temperature Kjeldahl digestion to convert nitrogenous compounds to ammonia. Ammonia is determined colorimetrically by discrete analyser. This method is compliant with NEPM Schedule B(3)
Total Nitrogen as N (TKN + Nox) By Discrete Analyser	EK062G	WATER	In house: Referenced to APHA 4500-Norg / 4500-NO3-. This method is compliant with NEPM Schedule B(3)
Total Phosphorus as P By Discrete Analyser	EK067G	WATER	In house: Referenced to APHA 4500-P H, Jirka et al, Zhang et al. This procedure involves sulphuric acid digestion of a sample aliquot to break phosphorus down to orthophosphate. The orthophosphate reacts with ammonium molybdate and antimony potassium tartrate to form a complex which is then reduced and its concentration measured at 880nm using discrete analyser. This method is compliant with NEPM Schedule B(3)
Reactive Phosphorus as P-By Discrete Analyser	EK071G	WATER	In house: Referenced to APHA 4500-P F Ammonium molybdate and potassium antimonyl tartrate reacts in acid medium with othophosphate to form a heteropoly acid -phosphomolybdic acid - which is reduced to intensely coloured molybdenum blue by ascorbic acid. Quantification is by Discrete Analyser. This method is compliant with NEPM Schedule B(3)
Ionic Balance by PCT DA and Turbi SO4 DA	* EN055 - PG	WATER	In house: Referenced to APHA 1030F. This method is compliant with NEPM Schedule B(3)
TRH - Semivolatile Fraction	EP071	WATER	In house: Referenced to USEPA SW 846 - 8015 The sample extract is analysed by Capillary GC/FID and quantification is by comparison against an established 5 point calibration curve of n-Alkane standards. This method is compliant with the QC requirements of NEPM Schedule B(3)
Volatile Organic Compounds	EP074	WATER	In house: Referenced to USEPA SW 846 - 8260 Water samples are directly purged prior to analysis by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3)
Semivolatile Organic Compounds	EP075	WATER	In house: Referenced to USEPA SW 846 - 8270 Sample extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3)

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Analytical Methods	Method	Matrix	Method Descriptions
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	WATER	In house: Referenced to USEPA SW 846 - 8270 Sample extracts are analysed by Capillary GC/MS in SIM Mode and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3)
TRH Volatiles/BTEX	EP080	WATER	In house: Referenced to USEPA SW 846 - 8260 Water samples are directly purged prior to analysis by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. Alternatively, a sample is equilibrated in a headspace vial and a portion of the headspace determined by GCMS analysis. This method is compliant with the QC requirements of NEPM Schedule B(3)
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	WATER	In-house: Analysis of fresh and saline waters by Solid Phase Extraction (SPE) followed by LC-Electrospray-MS-MS, Negative Mode using MRM and internal standard quantitation. Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to the sample container. The entire contents are transferred to a solid phase extraction (SPE) cartridge. The sample container is successively rinsed with aliquots of the elution solvent. The eluted extract is combined with an equal volume of reagent water and a portion is filtered for analysis. Method procedures and data quality objectives conform to US DoD QSM 5.3, table B-15 requirements.

Preparation Methods	Method	Matrix	Method Descriptions
TKN/TP Digestion	EK061/EK067	WATER	In house: Referenced to APHA 4500 Norg - D; APHA 4500 P - H. This method is compliant with NEPM Schedule B(3)
Digestion for Total Recoverable Metals	EN25	WATER	In house: Referenced to USEPA SW846-3005. Method 3005 is a Nitric/Hydrochloric acid digestion procedure used to prepare surface and ground water samples for analysis by ICPAES or ICPMS. This method is compliant with NEPM Schedule B(3)
Separatory Funnel Extraction of Liquids	ORG14	WATER	In house: Referenced to USEPA SW 846 - 3510 100 mL to 1L of sample is transferred to a separatory funnel and serially extracted three times using DCM for each extract. The resultant extracts are combined, dehydrated and concentrated for analysis. This method is compliant with NEPM Schedule B(3) . ALS default excludes sediment which may be resident in the container.
Volatiles Water Preparation	ORG16-W	WATER	A 5 mL aliquot or 5 mL of a diluted sample is added to a 40 mL VOC vial for purging.
Solid Phase Extraction (SPE) for PFAS in water	ORG72	WATER	In-house: Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to the sample container. The entire contents are transferred to a solid phase extraction (SPE) cartridge. The sample container is successively rinsed with aliquots of the elution solvent. The eluted extract is combined with an equal volume of reagent water and a portion is filtered for analysis. Method procedures conform to US DoD QSM 5.3, table B-15 requirements.

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CHAIN OF CUSTODY

ALS Laboratory: please tick →

ADELAIDE 21 Burma Road Pooraka SA 5095 Ph: 08 8359 0890 E: adelaide@alsglobal.com

BRISBANE 32 Shand Street Stafford QLD 4053 Ph: 07 3243 7222 E: samples.brisbane@alsglobal.com

GLADSTONE 46 Callemondah Drive Clinton QLD 4680 Ph: 07 4971 5600 E: gladstone@alsglobal.com

MACKAY 78 Harbour Road Mackay QLD 4740 Ph: 07 4944 0177 E: mackay@alsglobal.com

MELBOURNE 24 Westall Road Springvale VIC 3171 Ph: 03 8549 9600 E: samples.melbourne@alsglobal.com

MUDGEE 27 Sydney Road Mudgee NSW 2850 Ph: 02 8372 6735 E: mudgee.mail@alsglobal.com

NEWCASTLE 5/585 Maitland Rd Mayfield West NSW 2304 Ph: 02 4014 2500 E: samples.newcastle@alsglobal.com

NOWRA 4/13 Geary Place North Nowra NSW 2541 Ph: 02 4423 2063 E: nowra@alsglobal.com

PERTH 10 Hod Way Malaga WA 6090 Ph: 08 9209 7655 E: samples.perth@alsglobal.com

SYDNEY 277-289 Woodpark Road Smithfield NSW 2164 Ph: 02 8784 8555 E: samples.sydney@alsglobal.com

TOWNSVILLE 14-15 Desma Court Bohle QLD 4818 Ph: 07 4796 0600 E: townsville.environmental@alsglobal.com

WOLLONGONG 99 Kenny Street Wollongong NSW 2500 Ph: 02 4225 3125 E: portkembla@alsglobal.com

CLIENT: FRM	TURNAROUND REQUIREMENTS: (Standard TAT may be longer for some tests e.g. Ultra Trace Organics)	☑ Standard TAT (List due date):	FOR LABORATORY USE ONLY (Circle)
OFFICE: Sydney		☐ Non Standard or urgent TAT (List due date):	Custody Seal Intact? Yes No N/A
PROJECT: 0628507	ALS QUOTE NO.:	COC SEQUENCE NUMBER (Circle)	Free ice / frozen ice bricks present upon receipt? Yes No N/A
ORDER NUMBER:		COC: 1 2 3 4 5 6 7	Random Sample Temperature on Receipt: °C
PROJECT MANAGER: Nicholas Ayboth	CONTACT PH: 041< 833 925	OF: 1 2 3 4 5 6 7	Other comment:
SAMPLER: Taj Monsour	SAMPLER MOBILE: 0467 295 082	RELINQUISHED BY: T. Monsour	RECEIVED BY: Sky<
COC emailed to ALS? (YES / (NO))	EDD FORMAT (or default):	DATE/TIME: 21/01/22	DATE/TIME: 21-1-22 1:15pm
Email Reports to (will default to PM if no other addresses are listed):		RELINQUISHED BY:	RECEIVED BY:
Email Invoice to (will default to PM if no other addresses are listed):		DATE/TIME:	DATE/TIME:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE	SAMPLE DETAILS MATRIX: SOLID (S) WATER (W)			CONTAINER INFORMATION		ANALYSIS REQUIRED Including SUITES (NB. Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required).	Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL CONTAINERS	PFAS	Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc.
1	SMW-BH051	18-01-22	W				
2	SMW-BH051_S	18-01-22					
3	851	20-01-22					
4	S54						
5	S02_d						
6	S06						
7	S40_d						
8	S40_S						
9	BUR_MW108						
10	DQ1-220119	19-01-22					
11	TQ1-220119	19-01-22					
				TOTAL			

Environmental Division Sydney
Work Order Reference
ES2202047

Telephone - 61-2-8784 8555

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Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide/Cd Preserved; S = Sodium Hydroxide Preserved Plastic; AG = Amber Glass Unpreserved; AP = Airfreight Unpreserved Plastic
V = VOA Vial HCl Preserved; VB = VOA Vial Sodium Bisulphate Preserved; VS = VOA Vial Sulfuric Preserved; AV = Airfreight Unpreserved Vial SG = Sulfuric Preserved Amber Glass; H = HCl preserved Plastic; HS = HCl preserved Speciation bottle; SP = Sulfuric Preserved Plastic; F = Formaldehyde Preserved Glass; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; ASS = Plastic Bag for Acid Sulphate Soils; B = Unpreserved Bag.

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☐BRISBANE 32 Shand Street Stafford QLD 4053 Ph: 07 3243 7222 E: samples.brisbane@alsglobal.com

☐GLADSTONE 46 Callemondah Drive Clinton QLD 4680 Ph: 07 7471 5600 E: gladstone@alsglobal.com

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☐MUDGEE 27 Sydney Road Mudgee NSW 2850 Ph: 02 6372 6735 E: mudgee.mail@alsglobal.com

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☐PERTH 10 Hod Way Malaga WA 6090 Ph: 08 9209 7655 E: samples.perth@alsglobal.com

☐SYDNEY 277-289 Woodpark Road Smithfield NSW 2164 Ph: 02 8784 8555 E: samples.sydney@alsglobal.com

☐TOWNSVILLE 14-16 Desma Court Bohle QLD 4818 Ph: 07 4796 0600 E: townsville.environmental@alsglobal.com

☐WOLLONGONG 99 Kenny Street Wollongong NSW 2500 Ph: 02 4225 3125 E: portkembla@alsglobal.com

CLIENT: ERM	TURNAROUND REQUIREMENTS: ☑ Standard TAT (List due date):	FOR LABORATORY USE ONLY (Circle):	
OFFICE: Sydney	(Standard TAT may be longer for some tests e.g. Ultra Trace Organics) ☐ Non Standard or urgent TAT (List due date):	Custody Seal Intact?	Yes / No / N/A
PROJECT: 0628507	ALS QUOTE NO.:	Free ice / frozen ice bricks present upon receipt?	Yes / No / N/A
ORDER NUMBER:	COC SEQUENCE NUMBER (Circle) COC: 1 2 3 4 5 6 7 OF: 1 2 3 4 5 6 7	Random Sample Temperature on Receipt:	°C
PROJECT MANAGER: Nicholas Grbich CONTACT PH: 0415 833 928		Other comment:	
SAMPLER: Taj Morgan SAMPLER MOBILE: 0467 295 082	RELINQUISHED BY: Taj Morgan	RECEIVED BY:	RELINQUISHED BY: / RECEIVED BY:
COC emailed to ALS? (YES / (NO) EDD FORMAT (or default):	DATE/TIME: 21/01/22	DATE/TIME:	DATE/TIME: / DATE/TIME:
Email Reports to (will default to PM if no other addresses are listed):			
Email Invoice to (will default to PM if no other addresses are listed):			

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE	SAMPLE DETAILS MATRIX: SOLID (S) WATER (W)			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required).								Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL CONTAINERS	TRH + BTEXN	PAHs	VOCs	Heavy metals plus NOM	PFAS	Ammonia, nitrate, total Nitrogen, total phosphorus	Major anions & cations	PFAS	Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc.
12	BUR_BH125	21-01-22	W			X	X	X	X	X	X	X	X	PFAS sample taken on 20/01/22
13	ROI-220121	↓				X	X	X	X	X	X			No nitrate analysis
14	Trip spike + Trip blank					X	X	X	X					
15	SMW-BH120	19-01-22								X				
16	SMW-BH019	19-01-22								↓				
17	ROI-220119	19-01-22												
18	SMW-BH038	18-01-22												
19	SMW-BH035	18-01-22												
20	SMW-BH035_S	18-01-22												
21	ROI-220118	18-01-22												
22	ROI-220117	17-01-22												
23	ROI-220120	20-01-22	↓							↓				
				TOTAL										

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide/Cd Preserved; S = Sodium Hydroxide Preserved Plastic; AG = Amber Glass Unpreserved; AP - Airfreight Unpreserved Plastic
V = VOA Vial HCl Preserved; VB = VOA Vial Sodium Bisulphate Preserved; VS = VOA Vial Sulfuric Preserved; AV = Airfreight Unpreserved Vial SG = Sulfuric Preserved Amber Glass; H = HCl preserved Plastic; HS = HCl preserved Speciation bottle; SP = Sulfuric Preserved Plastic; F = Formaldehyde Preserved Glass; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; ASS = Plastic Bag for Acid Sulphate Soils; B = Unpreserved Bag.

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BRISBANE 32 Shand Street Stafford QLD 4053 Ph: 07 3243 7222 E: samples.brisbane@alsglobal.com

GLADSTONE 46 Callemondah Drive Clinton QLD 4680 Ph: 07 4971 9600 E: gladstone@alsglobal.com

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MUDGEE 27 Sydney Road Mudgee NSW 2850 Ph: 02 6372 6735 E: mudgee.mail@alsglobal.com

NEWCASTLE 5/585 Maitland Rd Mayfield West NSW 2304 Ph: 02 4014 2500 E: samples.newcastle@alsglobal.com

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PERTH 10 Hod Way Malaga WA 6090 Ph: 08 9209 7655 E: samples.perth@alsglobal.com

SYDNEY 277-289 Woodpark Road Smithfield NSW 2164 Ph: 02 8784 8555 E: samples.sydney@alsglobal.com

TOWNSVILLE 14-15 Desma Court Bohle QLD 4818 Ph: 07 4796 0600 E: townsville.environmental@alsglobal.com

WOLLONGONG 99 Kenny Street Wollongong NSW 2500 Ph: 02 4225 3125 E: nortkembla@alsglobal.com

CLIENT: FRM	TURNAROUND REQUIREMENTS: (Standard TAT may be longer for some tests e.g. Ultra Trace Organics)	☑ Standard TAT (List due date):	FOR LABORATORY USE ONLY (Circle)
OFFICE: Sydney		☐ Non Standard or urgent TAT (List due date):	Custody Seal Intact? Yes No N/A
PROJECT: 0628507	ALS QUOTE NO.:	COC SEQUENCE NUMBER (Circle)	Free ice / frozen ice bricks present upon receipt? Yes No N/A
ORDER NUMBER:		COC: 1 2 3 4 5 6 7	Random Sample Temperature on Receipt: °C
PROJECT MANAGER: Nicholas Arboleda	CONTACT PH: 0415 833 925	OF: 1 2 3 4 5 6 7	Other comment:
SAMPLER: Tas Manson	SAMPLER MOBILE: 0467 295 082		
COC emailed to ALS? (YES / (NO))	EDD FORMAT (or default):		
Email Reports to (will default to PM if no other addresses are listed):			
Email Invoice to (will default to PM if no other addresses are listed):			

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
T. Manson	Skye		
DATE/TIME: 21/01/22	DATE/TIME: 21.1.22 [illegible]	DATE/TIME:	DATE/TIME:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE	SAMPLE DETAILS MATRIX: SOLID (S) WATER (W)			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required).	Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL CONTAINERS	PFAS	Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc.
1	SMW-BH051	18-01-22	W				
2	SMW-BH051_S	18-01-22					
3	851	20-01-22					
4	S54						
5	S02_d						
6	S06						
7	S40_d						
8	S40_S						
9	BUR-MW108						
10	DQ1-220119	19-01-22					
11	TQ1-220119	19-01-22					
				TOTAL			

Environmental Division
Sydney
Work Order Reference
ES2202047

Telephone - 61-2-8784 8555

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Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide/Cd Preserved; S = Sodium Hydroxide Preserved Plastic; AG = Amber Glass Unpreserved; AP - Airfreight Unpreserved Plastic
V = VOA Vial HCl Preserved; VB = VOA Vial Sodium Bisulphate Preserved; VS = VOA Vial Sulfuric Preserved; AV = Airfreight Unpreserved Vial SG = Sulfuric Preserved Amber Glass; H = HCl preserved Plastic; HS = HCl preserved Speciation bottle; SP = Sulfuric Preserved Plastic; F = Formaldehyde Preserved Glass;
Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; ASS = Plastic Bag for Acid Sulphate Soils; B = Unpreserved Bag.

CHAIN OF CUSTODY

ALS Laboratory: please tick →

ADELAIDE 21 Burma Road Pooraka SA 5095 Ph: 08 8359 0890 E: adelaide@alsglobal.com
BRISBANE 32 Shand Street Stafford QLD 4053 Ph: 07 3243 7222 E: samples.brisbane@alsglobal.com
GLADSTONE 46 Callemondah Drive Clinton QLD 4680 Ph: 07 4971 9600 E: gladstone@alsglobal.com
MACKAY 78 Harbour Road Mackay QLD 4740 Ph: 07 4944 0177 E: mackay@alsglobal.com
MELBOURNE 24 Westall Road Springvale VIC 3171 Ph: 03 8549 9600 E: samples.melbourne@alsglobal.com
MUDGEE 27 Sydney Road Mudgee NSW 2850 Ph: 02 8372 6735 E: mudgee.mail@alsglobal.com
NEWCASTLE 5/585 Maitland Rd Mayfield West NSW 2304 Ph: 02 4014 2500 E: samples.newcastle@alsglobal.com
NOWRA 4/13 Geary Place North Nowra NSW 2541 Ph: 024423 2063 E: nowra@alsglobal.com
PERTH 10 Hod Way Malaga WA 6090 Ph: 08 9209 7655 E: samples.perth@alsglobal.com
SYDNEY 277-289 Woodpark Road Smithfield NSW 2164 Ph: 02 8784 8555 E: samples.sydney@alsglobal.com
TOWNSVILLE 14-16 Desma Court Garbutt QLD 4814 Ph: 07 4796 0600 E: townsville.environmental@alsglobal.com
WOLLONGONG 99 Kenny Street Wollongong NSW 2500 Ph: 02 4225 3125 E: portkembla@alsglobal.com

CLIENT: ERM	TURNAROUND REQUIREMENTS: ☑ Standard TAT (List due date):	FOR LABORATORY USE ONLY (Circle)	
OFFICE: Sydney	(Standard TAT may be longer for some tests e.g. Ultra Trace Organics) ☐ Non Standard or urgent TAT (List due date):	Custody Seal Intact?	Yes / No / N/A
PROJECT: 0628507	ALS QUOTE NO.:	Free ice / frozen ice bricks present upon receipt?	Yes / No / N/A
ORDER NUMBER:	COC SEQUENCE NUMBER (Circle) COC: 1 2 3 4 5 6 7	Random Sample Temperature on Receipt:	°C
PROJECT MANAGER: Nicholas Gobirah	CONTACT PH: 0415 833 928	OF: 1 2 3 4 5 6 7	Other comment:
SAMPLER: Taj Mawson	SAMPLER MOBILE: 0467 295 082		
COC emailed to ALS? (YES / (NO))	EDD FORMAT (or default):		
Email Reports to (will default to PM if no other addresses are listed):			
Email invoice to (will default to PM if no other addresses are listed):			

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Taj Mawson			
DATE/TIME: 20/01/22	DATE/TIME:	DATE/TIME:	DATE/TIME:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE	SAMPLE DETAILS MATRIX: SOLID (S) WATER (W)			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required).								Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL CONTAINERS	TRH & BTEX N	PAHs	VOCs	Heavy metals plus arsen	PFAS	Ammonia, nitrate, total Nitrogen, total phosphorus, major anions & cations	TDS		Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc.
12	BUR_BH125	21-01-22	W			X	X	X	X	X	X	X	X	PFAS sample taken on 20/01/22
13	ROI-220121	↓				X	X	X	X	X	X			No nitrate analysis
14,15	Trip spike + Trip blank					X	X	X	X					
16	SMW_BH120	19-01-22								X				
17	SMW_BH029	19-01-22												
18	ROI_220119	19-01-22												
19	SMW_BH038	18-01-22												
20	SMW_BH035	18-01-22												
21	SMW_BH035_S	18-01-22												
22	ROI-220118	18-01-22												
23	ROI-220117	17-01-22												
24	ROI-220120	20-01-22	↓							↓				
				TOTAL										

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide/Cd Preserved; S = Sodium Hydroxide Preserved Plastic; AG = Amber Glass Unpreserved; AP = Airfreight Unpreserved Plastic
V = VOA Vial HCl Preserved; VB = VOA Vial Sodium Bisulphate Preserved; VS = VOA Vial Sulfuric Preserved; AV = Airfreight Unpreserved Vial SG = Sulfuric Preserved Amber Glass; H = HCl preserved Plastic; HS = HCl preserved Speciation bottle; SP = Sulfuric Preserved Plastic; F = Formaldehyde Preserved Glass;
Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; ASS = Plastic Bag for Acid Sulphate Soils; B = Unpreserved Bag.

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Appendix VI – Data Validation

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Appendix VI – Data Validation

To check the accuracy and validity of soil sampling results, a range of QA/QC measures were implemented. A summary of the QA/QC results for the soil analysis on the pages below.

Table 4. Summary of soil sample QA/QC analysis.

Sample collection & handling measures appropriate?		☒ Yes ☐ No
Field QA/QC samples	BWN_BH108-BR and SES-BH1-BR2 are field duplicates of the primary samples BWN_BH108-0.3 and SES-BH1-0.0-0.2. Were the RPD values within acceptable tolerances?	☒ Yes ☐ No
	BWN_BH108_SR and SES-BH4-SR2 are interlaboratory duplicates of primary samples BWN_BH108-0.3 and SES-BH4-0.0-0.2 Were the RPD values within acceptable tolerances?	☒ Yes ☐ No
Laboratory prepared trip spike Were the recovery percentages within acceptable recovery ranges?		☒ Yes ☐ No ☐ N/A
Are the laboratory internal QA/QC results acceptable?		☒ Yes ☐ No
Were all field instruments calibrated (Calibration certificates provided in *Appendix F – Supporting documents*)?		☐ Yes ☐ No ☒ N/A
Field & laboratory data usable? Does ADE consider that the analytical results are representative of the conditions of the sampling locations at the time of sampling and are directly usable for the purpose of this assessment.		☒ Yes ☐ No

		Lab Report Number	21.2041 (136-148)	21.2041 (136-148)		21.2041 (136-148)	294341	
		Field ID	BWN_BH108-0.3	BWN_BH108-BR		BWN_BH108-0.3	BWN_BH108_SR	
		Date	2/05/2022	2/05/2022		2/05/2022	23/04/2022	
		Matrix Type	Soil	Soil	RPD	Soil	Soil	RPD
	Unit	EQL						
Physical								
Moisture Content	%	0.1	18.3	16.6	10	18.3	19	4
Metals								
Arsenic	mg/kg	4	10.5	22.5	73	10.5	5	71
Cadmium	mg/kg	0.3	<0.30	<0.30	0	<0.30	<0.4	0
Chromium (III+VI)	mg/kg	1	18.6	16.4	13	18.6	9	70
Copper	mg/kg	1	<5.0	7.1	35	<5.0	6	18
Lead	mg/kg	1	<10.0	<10.0	0	<10.0	13	26
Mercury	mg/kg	0.1	<0.20	<0.20	0	<0.20	<0.1	0
Nickel	mg/kg	1	<10.0	<10.0	0	<10.0	<1	0
Zinc	mg/kg	1	<5.0	<5.0	0	<5.0	4	0
BTEX								
Benzene	mg/kg	0.2	<0.50	<0.50	0	<0.50	<0.2	0
Toluene	mg/kg	0.5	<0.50	<0.50	0	<0.50	<0.5	0
Ethylbenzene	mg/kg	0.5	<0.50	<0.50	0	<0.50	<1	0
Xylene (m & p)	mg/kg	1	<1.0	<1.0	0	<1.0	<2	0
Xylene (o)	mg/kg	0.5	<0.50	<0.50	0	<0.50	<1	0
Xylene Total	mg/kg	1	<1.0	<1.0	0	<1.0	<1	0
Naphthalene (VOC)	mg/kg	1					<1	
Total BTEX	mg/kg	1	<1.0	<1.0	0	<1.0		
TPH								
C6-C9 Fraction	mg/kg	25	<35	<35	0	<35	<25	0
C10-C14 Fraction	mg/kg	50	<50	<50	0	<50	<50	0
C15-C28 Fraction	mg/kg	100	<100	<100	0	<100	<100	0
C29-C36 Fraction	mg/kg	100	<100	<100	0	<100	<100	0
C10-C36 Fraction (Sum)	mg/kg	50	<50	<50	0	<50	<50	0
TRH								
C6-C10 Fraction (F1)	mg/kg	25	<35	<35	0	<35	<25	0
C6-C10 (F1 minus BTEX)	mg/kg	25	<35	<35	0	<35	<25	0
>C10-C16 Fraction (F2)	mg/kg	50	<50	<50	0	<50	<50	0
>C10-C16 Fraction (F2 minus Naphthalene)	mg/kg	50					<50	
>C16-C34 Fraction (F3)	mg/kg	100	<100	<100	0	<100	<100	0
>C34-C40 Fraction (F4)	mg/kg	100	<100	<100	0	<100	<100	0
>C10-C40 Fraction (Sum)	mg/kg	50	<50	<50	0	<50	<50	0
PAH								
Acenaphthene	mg/kg	0.1	<0.30	<0.30	0	<0.30	<0.1	0
Acenaphthylene	mg/kg	0.1	<0.30	<0.30	0	<0.30	<0.1	0
Anthracene	mg/kg	0.1	<0.30	<0.30	0	<0.30	<0.1	0
Benzo(b+j+k)fluoranthene	mg/kg	0.2					<0.2	
Benz(a)anthracene	mg/kg	0.1	<0.30	<0.30	0	<0.30	<0.1	0
Benzo(a) pyrene	mg/kg	0.05	<0.30	<0.30	0	<0.30	<0.05	0
Benzo(b)fluoranthene	mg/kg	0.3	<0.30	<0.30	0	<0.30		
Benzo(g,h,i)perylene	mg/kg	0.1	<0.30	<0.30	0	<0.30	<0.1	0
Benzo(k)fluoranthene	mg/kg	0.3	<0.30	<0.30	0	<0.30		
Chrysene	mg/kg	0.1	<0.30	<0.30	0	<0.30	<0.1	0
Dibenz(a,h)anthracene	mg/kg	0.1	<0.30	<0.30	0	<0.30	<0.1	0
Fluoranthene	mg/kg	0.1	<0.30	<0.30	0	<0.30	<0.1	0
Fluorene	mg/kg	0.1	<0.30	<0.30	0	<0.30	<0.1	0
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	<0.30	<0.30	0	<0.30	<0.1	0
Naphthalene	mg/kg	0.1	<0.30	<0.30	0	<0.30	<0.1	0
Phenanthrene	mg/kg	0.1	<0.30	<0.30	0	<0.30	<0.1	0
Pyrene	mg/kg	0.1	<0.30	<0.30	0	<0.30	<0.1	0
PAHs (Sum of positives)	mg/kg	0.05	<0.30	<0.30	0	<0.30	<0.05	0
Organochlorine Pesticides								
4,4-DDE	mg/kg	0.1	<0.10	<0.10	0	<0.10	<0.1	0
a-BHC	mg/kg	0.1	<0.10	<0.10	0	<0.10	<0.1	0
Aldrin	mg/kg	0.1	<0.10	<0.10	0	<0.10	<0.1	0
b-BHC	mg/kg	0.1	<0.10	<0.10	0	<0.10	<0.1	0
Chlordane (cis)	mg/kg	0.1	<0.10	<0.10	0	<0.10	<0.1	0
Chlordane (trans)	mg/kg	0.1	<0.10	<0.10	0	<0.10	<0.1	0
d-BHC	mg/kg	0.1	<0.10	<0.10	0	<0.10	<0.1	0
DDD	mg/kg	0.1	<0.10	<0.10	0	<0.10	<0.1	0
DDT	mg/kg	0.1	<0.10	<0.10	0	<0.10	<0.1	0
DDT+DDE+DDD	mg/kg	0.1					<0.1	
Dieldrin	mg/kg	0.1	<0.10	<0.10	0	<0.10	<0.1	0
Endosulfan I	mg/kg	0.1	<0.20	<0.20	0	<0.20	<0.1	0
Endosulfan II	mg/kg	0.1	<0.20	<0.20	0	<0.20	<0.1	0
Endosulfan sulphate	mg/kg	0.1	<0.10	<0.10	0	<0.10	<0.1	0
Endrin	mg/kg	0.1	<0.20	<0.20	0	<0.20	<0.1	0
Endrin aldehyde	mg/kg	0.1	<0.10	<0.10	0	<0.10	<0.1	0
Endrin ketone	mg/kg	0.1	<0.10	<0.10	0	<0.10		
g-BHC (Lindane)	mg/kg	0.1	<0.10	<0.10	0	<0.10	<0.1	0
Heptachlor	mg/kg	0.1	<0.10	<0.10	0	<0.10	<0.1	0
Heptachlor epoxide	mg/kg	0.1	<0.10	<0.10	0	<0.10	<0.1	0
Methoxychlor	mg/kg	0.1	<0.10	<0.10	0	<0.10	<0.1	0
Organophosphorous Pesticides								
Azinophos methyl	mg/kg	0.1					<0.1	
Bromophos-ethyl	mg/kg	0.1					<0.1	
Chlorpyrifos	mg/kg	0.1	<0.10	<0.10	0	<0.10	<0.1	0
Chlorpyrifos-methyl	mg/kg	0.1	<0.10	<0.10	0	<0.10	<0.1	0
Tribuphos	mg/kg	0.1	<0.10	<0.10	0	<0.10		
Diazinon	mg/kg	0.1	<0.10	<0.10	0	<0.10	<0.1	0
Dichlorvos	mg/kg	0.1					<0.1	
Dimethoate	mg/kg	0.1					<0.1	
Ethion	mg/kg	0.1					<0.1	
Ethoprop	mg/kg	0.1	<0.10	<0.10	0	<0.10		
Fenitrothion	mg/kg	0.1					<0.1	
Malathion	mg/kg	0.1					<0.1	
Methyl parathion	mg/kg	0.1	<0.10	<0.10	0	<0.10		
Parathion	mg/kg	0.1					<0.1	
Ronnel	mg/kg	0.1	<0.10	<0.10	0	<0.10	<0.1	0
PCBs								
Arochlor 1016	mg/kg	0.1	<0.50	<0.50	0	<0.50	<0.1	0
Arochlor 1221	mg/kg	0.1	<0.50	<0.50	0	<0.50	<0.1	0
Arochlor 1232	mg/kg	0.1	<0.50	<0.50	0	<0.50	<0.1	0
Arochlor 1242	mg/kg	0.1	<0.50	<0.50	0	<0.50	<0.1	0
Arochlor 1248	mg/kg	0.1	<0.50	<0.50	0	<0.50	<0.1	0

		Lab Report Number	21.2041 (136-148)	21.2041 (136-148)		21.2041 (136-148)	294341	
		Field ID	BWN_BH108-0.3	BWN_BH108-BR		BWN_BH108-0.3	BWN_BH108_SR	
		Date	2/05/2022	2/05/2022		2/05/2022	23/04/2022	
		Matrix Type	Soil	Soil	RPD	Soil	Soil	RPD
	Unit	EQL						
Arochlor 1254	mg/kg	0.1	<0.50	<0.50	0	<0.50	<0.1	0
Arochlor 1260	mg/kg	0.1	<0.50	<0.50	0	<0.50	<0.1	0
PCBs (Sum of total)	mg/kg	0.1					<0.1	
Chlorinated Hydrocarbons								
1,1,1,2-tetrachloroethane	mg/kg	0.5	<0.50	<0.50	0	<0.50		
1,1,1-trichloroethane	mg/kg	0.5	<0.50	<0.50	0	<0.50		
1,1,2,2-tetrachloroethane	mg/kg	0.5	<0.50	<0.50	0	<0.50		
1,1,2-trichloroethane	mg/kg	0.5	<0.50	<0.50	0	<0.50		
1,1-dichloroethene	mg/kg	0.5	<0.50	<0.50	0	<0.50		
1,2-dichloroethane	mg/kg	0.5	<0.50	<0.50	0	<0.50		
Bromochloromethane	mg/kg	0.5	<0.50	<0.50	0	<0.50		
Carbon tetrachloride	mg/kg	0.5	<0.50	<0.50	0	<0.50		
Chloroform	mg/kg	0.5	<0.50	<0.50	0	<0.50		
cis-1,2-dichloroethene	mg/kg	0.5	<0.50	<0.50	0	<0.50		
Dichloromethane	mg/kg	0.5	<0.50	<0.50	0	<0.50		
Hexachlorobutadiene	mg/kg	0.5	<0.50	<0.50	0	<0.50		
Other chlorinated hydrocarbons EPAVic	mg/kg	0.5	<0.50	<0.50	0	<0.50		
Total Chlorinated Hydrocarbons	mg/kg	0.5	<0.50	<0.50	0	<0.50		
Trichloroethene	mg/kg	0.5	<0.50	<0.50	0	<0.50		
Tetrachloroethene	mg/kg	0.5	<0.50	<0.50	0	<0.50		
trans-1,2-dichloroethene	mg/kg	0.5	<0.50	<0.50	0	<0.50		
Vinyl chloride	mg/kg	0.5	<0.50	<0.50	0	<0.50		
MAH								
Monocylic aromatic hydrocarbons EPAVic	mg/kg	1	<1.0	<1.0	0	<1.0		
Styrene	mg/kg	0.5	<0.50	<0.50	0	<0.50		
Perfluoroalkane Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	µg/kg	5	<5			<5		
Perfluoropentane sulfonic acid (PFPeS)	µg/kg	5	<5			<5		
Perfluorohexane sulfonic acid (PFHxS)	µg/kg	5	<5			<5		
Perfluoroheptane sulfonic acid (PFHpS)	µg/kg	5	<5			<5		
Perfluorooctane sulfonic acid (PFOS)	µg/kg	5	<5			<5		
Perfluoroalkane Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	µg/kg	5	<5			<5		
Perfluoropentanoic acid (PFPeA)	µg/kg	5	<5			<5		
Perfluorohexanoic acid (PFHxA)	µg/kg	5	<5			<5		
Perfluoroheptanoic acid (PFHpA)	µg/kg	5	<5			<5		
Perfluorooctanoic acid (PFOA)	µg/kg	5	<5			<5		
Perfluorononanoic acid (PFNA)	µg/kg	5	<5			<5		
Perfluorodecanoic acid (PFDA)	µg/kg	5	<5			<5		
Perfluoroundecanoic acid (PFUnDA)	µg/kg	5	<5			<5		
Perfluorododecanoic acid (PFDoDA)	µg/kg	5	<5			<5		
Perfluorotridecanoic acid (PFTrDA)	µg/kg	5	<5			<5		
Perfluorotetradecanoic acid (PFTeDA)	µg/kg	5	<5			<5		
Halogenated Benzenes								
1,2,4-trichlorobenzene	mg/kg	0.5	<0.50	<0.50	0	<0.50		
1,2-dichlorobenzene	mg/kg	0.5	<0.50	<0.50	0	<0.50		
1,4-dichlorobenzene	mg/kg	0.5	<0.50	<0.50	0	<0.50		
Chlorobenzene	mg/kg	0.5	<0.50	<0.50	0	<0.50		
Hexachlorobenzene	mg/kg	0.1	<0.10	<0.10	0	<0.10	<0.1	0

***RPDs have only been considered where a concentration is greater than 1 times the EQL.**

****Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for each EQL multiplier range are: 81 (1 - 10 x EQL); 50 (10 - 30 x EQL); 30 (> 30 x EQL))**

*****Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory**

		21.2041 (255-274)	21.2041 (255-274)		21.2041 (404-417)	295128	
		SES-BH1-0.0-0.2	SES-BH1-BR2		SES-BH4-0.0-0.2	SES-BH4-SR2	
		9/05/2022	9/05/2022		9/05/2022	6/05/2022	
		Soil	Soil	RPD	Soil	Soil	RPD
	Unit						
Physical							
Moisture Content	%	20.8	23.1	10	29.6	31	5
Metals							
Arsenic	mg/kg	<5.0	<5.0	0	15.5	6	88
Cadmium	mg/kg	<0.30	<0.30	0	<0.30	<0.4	0
Chromium (III+VI)	mg/kg	45.6	15.2	100	20.3	21	3
Copper	mg/kg	304.8	122.9	85	6.4	10	44
Lead	mg/kg	400.3	194.1	69	10.7	20	61
Mercury	mg/kg	<0.20	<0.20	0	<0.20	<0.1	0
Nickel	mg/kg	159.8	57.3	94	<10.0	3	0
Zinc	mg/kg	973.2	329.6	99	<5.0	3	0
BTEX							
Benzene	mg/kg	<0.50	<0.50	0	<0.50	<0.2	0
Toluene	mg/kg	<0.50	<0.50	0	<0.50	<0.5	0
Ethylbenzene	mg/kg	<0.50	<0.50	0	<0.50	<1	0
Xylene (m & p)	mg/kg	<1.0	<1.0	0	<1.0	<2	0
Xylene (o)	mg/kg	<0.50	<0.50	0	<0.50	<1	0
Xylene Total	mg/kg	<1.0	<1.0	0	<1.0	<1	0
Naphthalene (VOC)	mg/kg					<1	
Total BTEX	mg/kg	<1.0	<1.0	0	<1.0		
TPH							
C6-C9 Fraction	mg/kg	<35	<35	0	<35	<25	0
C10-C14 Fraction	mg/kg	<50	<50	0	<50	<50	0
C15-C28 Fraction	mg/kg	<100	<100	0	<100	<100	0
C29-C36 Fraction	mg/kg	<100	<100	0	<100	<100	0
C10-C36 Fraction (Sum)	mg/kg	<50	<50	0	<50	<50	0
TRH							
C6-C10 Fraction (F1)	mg/kg	<35	<35	0	<35	<25	0
C6-C10 (F1 minus BTEX)	mg/kg	<35	<35	0	<35	<25	0
>C10-C16 Fraction (F2)	mg/kg	<50	<50	0	<50	<50	0
>C10-C16 Fraction (F2 minus Naphthalene)	mg/kg					<50	
>C16-C34 Fraction (F3)	mg/kg	<100	<100	0	<100	<100	0
>C34-C40 Fraction (F4)	mg/kg	<100	<100	0	<100	<100	0
>C10-C40 Fraction (Sum)	mg/kg	<50	<50	0	<50	<50	0
PAH							
Acenaphthene	mg/kg	<0.30	<0.30	0	<0.30	<0.1	0
Acenaphthylene	mg/kg	<0.30	<0.30	0	<0.30	<0.1	0
Anthracene	mg/kg	<0.30	<0.30	0	<0.30	<0.1	0
Benzo(b+j+k)fluoranthene	mg/kg					<0.2	
Benz(a)anthracene	mg/kg	<0.30	<0.30	0	<0.30	<0.1	0
Benzo(a) pyrene	mg/kg	<0.30	<0.30	0	<0.30	<0.05	0
Benzo(b)fluoranthene	mg/kg	<0.30	<0.30	0	<0.30		
Benzo(g,h,i)perylene	mg/kg	<0.30	<0.30	0	<0.30	<0.1	0
Benzo(k)fluoranthene	mg/kg	<0.30	<0.30	0	<0.30		
Chrysene	mg/kg	<0.30	<0.30	0	<0.30	<0.1	0
Dibenz(a,h)anthracene	mg/kg	<0.30	<0.30	0	<0.30	<0.1	0
Fluoranthene	mg/kg	<0.30	<0.30	0	<0.30	<0.1	0
Fluorene	mg/kg	<0.30	<0.30	0	<0.30	<0.1	0
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.30	<0.30	0	<0.30	<0.1	0
Naphthalene	mg/kg	<0.30	<0.30	0	<0.30	<0.1	0
Phenanthrene	mg/kg	<0.30	<0.30	0	<0.30	<0.1	0
Pyrene	mg/kg	<0.30	<0.30	0	<0.30	<0.1	0
PAHs (Sum of positives)	mg/kg	<0.30	<0.30	0	<0.30	<0.05	0
Organochlorine Pesticides							
4,4-DDE	mg/kg	<0.10	<0.10	0	<0.10	<0.1	0
a-BHC	mg/kg	<0.10	<0.10	0	<0.10	<0.1	0
Aldrin	mg/kg	<0.10	<0.10	0	<0.10	<0.1	0
b-BHC	mg/kg	<0.10	<0.10	0	<0.10	<0.1	0
Chlordane (cis)	mg/kg	<0.10	<0.10	0	<0.10	<0.1	0
Chlordane (trans)	mg/kg	<0.10	<0.10	0	<0.10	0.1	0
d-BHC	mg/kg	<0.10	<0.10	0	<0.10	<0.1	0
DDD	mg/kg	<0.10	<0.10	0	<0.10	<0.1	0
DDT	mg/kg	<0.10	<0.10	0	<0.10	<0.1	0
DDT+DDE+DDD	mg/kg					<0.1	
Dieldrin	mg/kg	<0.10	<0.10	0	<0.10	<0.1	0
Endosulfan I	mg/kg	<0.20	<0.20	0	<0.20	<0.1	0
Endosulfan II	mg/kg	<0.20	<0.20	0	<0.20	<0.1	0
Endosulfan sulphate	mg/kg	<0.10	<0.10	0	<0.10	<0.1	0
Endrin	mg/kg	<0.20	<0.20	0	<0.20	<0.1	0
Endrin aldehyde	mg/kg	<0.10	<0.10	0	<0.10	<0.1	0
Endrin ketone	mg/kg	<0.10	<0.10	0	<0.10		
g-BHC (Lindane)	mg/kg	<0.10	<0.10	0	<0.10	<0.1	0
Heptachlor	mg/kg	<0.10	<0.10	0	<0.10	<0.1	0
Heptachlor epoxide	mg/kg	<0.10	<0.10	0	<0.10	<0.1	0
Methoxychlor	mg/kg	<0.10	<0.10	0	<0.10	<0.1	0
Organophosphorous Pesticides							
Azinophos methyl	mg/kg					<0.1	
Bromophos-ethyl	mg/kg					<0.1	
Chlorpyrifos	mg/kg	<0.10	<0.10	0	<0.10	<0.1	0
Chlorpyrifos-methyl	mg/kg	<0.10	<0.10	0	<0.10	<0.1	0
Tribuphos	mg/kg	<0.10	<0.10	0	<0.10		
Diazinon	mg/kg	<0.10	<0.10	0	<0.10	<0.1	0
Dichlorvos	mg/kg					<0.1	
Dimethoate	mg/kg					<0.1	
Ethion	mg/kg					<0.1	
Ethoprop	mg/kg	<0.10	<0.10	0	<0.10		
Fenitrothion	mg/kg					<0.1	
Malathion	mg/kg					<0.1	
Methyl parathion	mg/kg	<0.10	<0.10	0	<0.10		
Parathion	mg/kg					<0.1	
Ronnel	mg/kg	<0.10	<0.10	0	<0.10	<0.1	0
PCBs							
Arochlor 1016	mg/kg	<0.50	<0.50	0	<0.50	<0.1	0
Arochlor 1221	mg/kg	<0.50	<0.50	0	<0.50	<0.1	0
Arochlor 1232	mg/kg	<0.50	<0.50	0	<0.50	<0.1	0
Arochlor 1242	mg/kg	<0.50	<0.50	0	<0.50	<0.1	0
Arochlor 1248	mg/kg	<0.50	<0.50	0	<0.50	<0.1	0

		21.2041 (255-274)	21.2041 (255-274)		21.2041 (404-417)	295128	
		SES-BH1-0.0-0.2	SES-BH1-BR2		SES-BH4-0.0-0.2	SES-BH4-SR2	
		9/05/2022	9/05/2022		9/05/2022	6/05/2022	
		Soil	Soil	RPD	Soil	Soil	RPD
	Unit						
Arochlor 1254	mg/kg	<0.50	<0.50	0	<0.50	<0.1	0
Arochlor 1260	mg/kg	<0.50	<0.50	0	<0.50	<0.1	0
PCBs (Sum of total)	mg/kg					<0.1	
Chlorinated Hydrocarbons							
1,1,1,2-tetrachloroethane	mg/kg	<0.50	<0.50	0	<0.50		
1,1,1-trichloroethane	mg/kg	<0.50	<0.50	0	<0.50		
1,1,2,2-tetrachloroethane	mg/kg	<0.50	<0.50	0	<0.50		
1,1,2-trichloroethane	mg/kg	<0.50	<0.50	0	<0.50		
1,1-dichloroethene	mg/kg	<0.50	<0.50	0	<0.50		
1,2-dichloroethane	mg/kg	<0.50	<0.50	0	<0.50		
Bromochloromethane	mg/kg	<0.50	<0.50	0	<0.50		
Carbon tetrachloride	mg/kg	<0.50	<0.50	0	<0.50		
Chloroform	mg/kg	<0.50	<0.50	0	<0.50		
cis-1,2-dichloroethene	mg/kg	<0.50	<0.50	0	<0.50		
Dichloromethane	mg/kg	<0.50	<0.50	0	<0.50		
Hexachlorobutadiene	mg/kg	<0.50	<0.50	0	<0.50		
Other chlorinated hydrocarbons EPAVic	mg/kg	<0.50	<0.50	0	<0.50		
Total Chlorinated Hydrocarbons	mg/kg	<0.50	<0.50	0	<0.50		
Trichloroethene	mg/kg	<0.50	<0.50	0	<0.50		
Tetrachloroethene	mg/kg	<0.50	<0.50	0	<0.50		
trans-1,2-dichloroethene	mg/kg	<0.50	<0.50	0	<0.50		
Vinyl chloride	mg/kg	<0.50	<0.50	0	<0.50		
MAH							
Monocylic aromatic hydrocarbons EPAVic	mg/kg	<1.0	<1.0	0	<1.0		
Styrene	mg/kg	<0.50	<0.50	0	<0.50		
Perfluoroalkane Sulfonic Acids							
Perfluorobutane sulfonic acid (PFBS)	µg/kg	<5			<5		
Perfluoropentane sulfonic acid (PFPeS)	µg/kg	<5			<5		
Perfluorohexane sulfonic acid (PFHxS)	µg/kg	<5			<5		
Perfluoroheptane sulfonic acid (PFHpS)	µg/kg	<5			<5		
Perfluorooctane sulfonic acid (PFOS)	µg/kg	8			<5		
Perfluoroalkane Carboxylic Acids							
Perfluorobutanoic acid (PFBA)	µg/kg	<5			<5		
Perfluoropentanoic acid (PFPeA)	µg/kg	<5			<5		
Perfluorohexanoic acid (PFHxA)	µg/kg	<5			<5		
Perfluoroheptanoic acid (PFHpA)	µg/kg	<5			<5		
Perfluorooctanoic acid (PFOA)	µg/kg	<5			<5		
Perfluorononanoic acid (PFNA)	µg/kg	<5			<5		
Perfluorodecanoic acid (PFDA)	µg/kg	<5			<5		
Perfluoroundecanoic acid (PFUnDA)	µg/kg	<5			<5		
Perfluorododecanoic acid (PFDoDA)	µg/kg	<5			<5		
Perfluorotridecanoic acid (PFTrDA)	µg/kg	<5			<5		
Perfluorotetradecanoic acid (PFTeDA)	µg/kg	<5			<5		
Halogenated Benzenes							
1,2,4-trichlorobenzene	mg/kg	<0.50	<0.50	0	<0.50		
1,2-dichlorobenzene	mg/kg	<0.50	<0.50	0	<0.50		
1,4-dichlorobenzene	mg/kg	<0.50	<0.50	0	<0.50		
Chlorobenzene	mg/kg	<0.50	<0.50	0	<0.50		
Hexachlorobenzene	mg/kg	<0.10	<0.10	0	<0.10	<0.1	0

***RPDs have only been considered where a concentration i**
****Elevated RPDs are highlighted as per QAQC Profile setti**
*****Interlab Duplicates are matched on a per compound b**

Trip Spikes

Lab Report Number	Matrix Type	Analysis Batch	Field ID	Chem Group	Chem Name	Trip Spike Result	Trip Spike Control	Result Units	Spike Recovery %	LCL	UCL	Method Name	Lab Sample ID	Sample Type
21.2041 (434-435)	Water	2022-05-09	TS		Ethylbenzene	NA	NA	NA		88		ESA-P-ORG08 & ORG10	2022014435	Trip_S
21.2041 (434-435)	Water	2022-05-09	TS		Xylene (m & p)	NA	NA	NA		90		ESA-P-ORG08 & ORG10	2022014435	Trip_S
21.2041 (434-435)	Water	2022-05-09	TS		Toluene	NA	NA	NA		22		ESA-P-ORG08 & ORG10	2022014435	Trip_S
21.2041 (434-435)	Water	2022-05-09	TS		Benzene	NA	NA	NA		72		ESA-P-ORG08 & ORG10	2022014435	Trip_S
21.2041 (434-435)	Water	2022-05-09	TS		Xylene (o)	NA	NA	NA		14		ESA-P-ORG08 & ORG10	2022014435	Trip_S
21.2041 (956-957)	Water	6/05/2022	TS		Ethylbenzene	NA	NA	NA		88		ESA-P-ORG08 & ORG10	2022014435	Trip_S
21.2041 (956-957)	Water	6/05/2022	TS		Xylene (m & p)	NA	NA	NA		22		ESA-P-ORG08 & ORG10	2022014435	Trip_S
21.2041 (956-957)	Water	6/05/2022	TS		Toluene	NA	NA	NA		88		ESA-P-ORG08 & ORG10	2022014435	Trip_S
21.2041 (956-957)	Water	6/05/2022	TS		Benzene	NA	NA	NA		74		ESA-P-ORG08 & ORG10	2022014435	Trip_S
21.2041 (956-957)	Water	6/05/2022	TS		Xylene (o)	NA	NA	NA		85		ESA-P-ORG08 & ORG10	2022014435	Trip_S
21.2041 (289-290)	Water	5/05/2022	TS		Ethylbenzene	NA	NA	NA		88		ESA-P-ORG08 & ORG10	2022014435	Trip_S
21.2041 (289-290)	Water	5/05/2022	TS		Xylene (m & p)	NA	NA	NA		72		ESA-P-ORG08 & ORG10	2022014435	Trip_S
21.2041 (289-290)	Water	5/05/2022	TS		Toluene	NA	NA	NA		88		ESA-P-ORG08 & ORG10	2022014435	Trip_S
21.2041 (289-290)	Water	5/05/2022	TS		Benzene	NA	NA	NA		88		ESA-P-ORG08 & ORG10	2022014435	Trip_S
21.2041 (289-290)	Water	5/05/2022	TS		Xylene (o)	NA	NA	NA		85		ESA-P-ORG08 & ORG10	2022014435	Trip_S

Trip Spike Recoveries. Where no lab LCL and UCL is available, user defined limits between 30% and 150% have been adopted for non-compliance.

Field Blanks

	BTEX				
	Benzene	Toluene	Ethylbenzene	Xylene (m & p)	Xylene (o)
	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	1	1	1	2	1

Lab Report Number	Matrix Type	Date					
21.2041 (956-957)	Water	23/04/2022	<1	<1	<1	<2	<1

Field Blanks

	BTEX				
	Benzene	Toluene	Ethylbenzene	Xylene (m & p)	Xylene (o)
	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	1	1	1	2	1

Lab Report Number	Matrix Type	Date					
21.2041 (289-290)	Water	6/05/2022	<1	<1	<1	<2	<1

Field Blanks

	BTEX				
	Benzene	Toluene	Ethylbenzene	Xylene (m & p)	Xylene (o)
	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	1	1	1	2	1

Lab Report Number	Matrix Type	Date					
21.2041 (434-435)	Water	5/05/2022	<1	<1	<1	<2	<1

Appendix VII - Supporting Documents

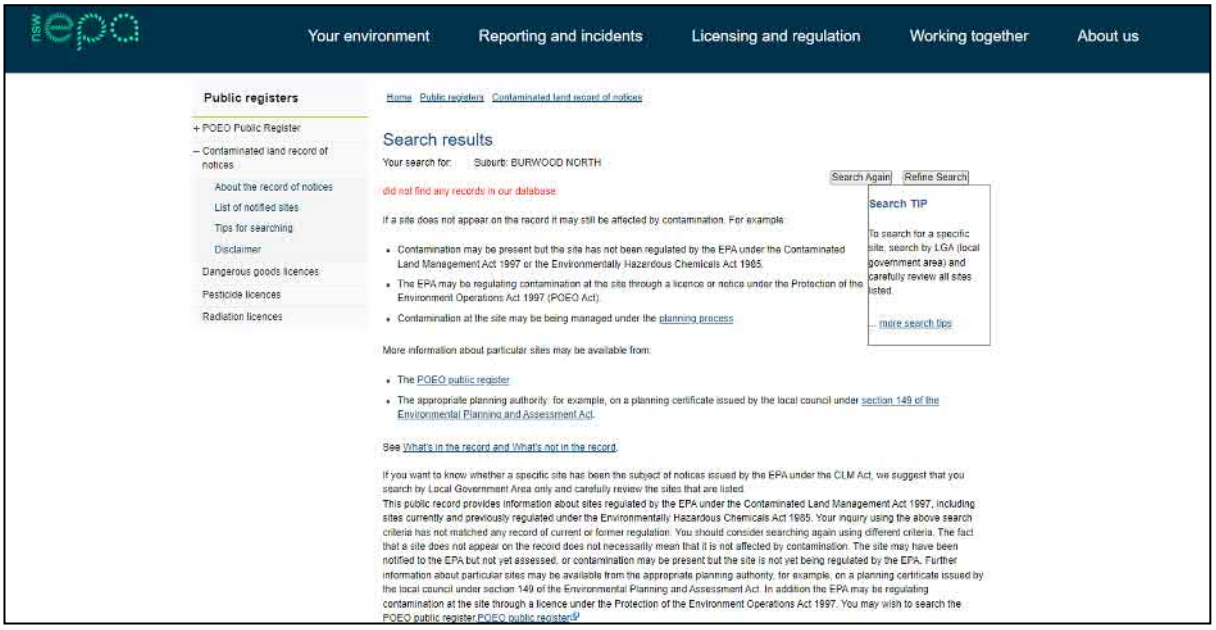


Image 1a. Image of the NSW Office of Environment and Heritage (OEH) 'Contaminated Land - Record of Notices' listed by the NSW EPA under the *Contaminated Land Management Act 1997* which identified no former notices within the suburb of Burwood North, NSW (screenshot adapted from *epa.nsw.gov.au*, accessed 23/04/2022).

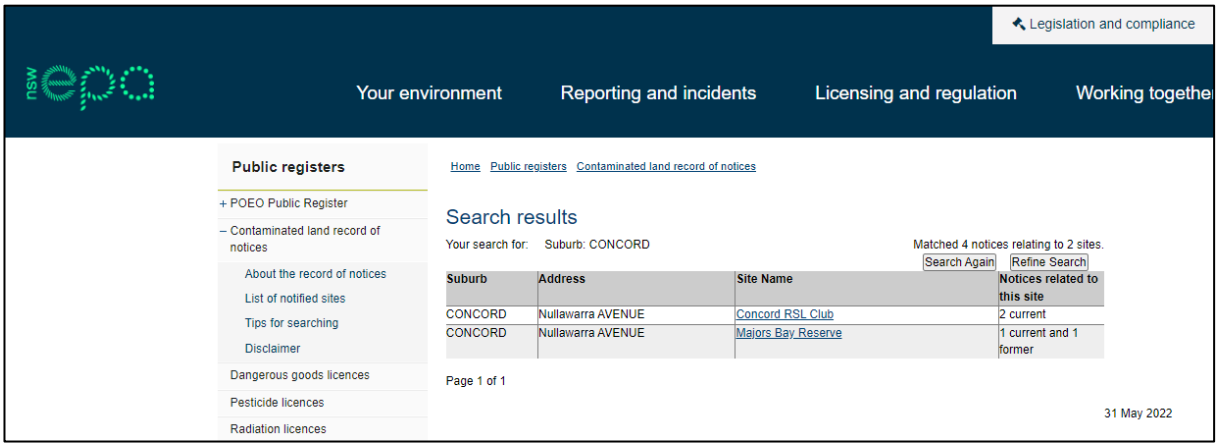


Image 1b. Image of the NSW Office of Environment and Heritage (OEH) 'Contaminated Land - Record of Notices' listed by the NSW EPA under the *Contaminated Land Management Act 1997* which identified three current and one former notices within the suburb of Concord (screenshot adapted from *epa.nsw.gov.au*, accessed 31/05/2022).

BURONGA	Caltex Service Station	Sturt Hwy Cnr Silver City HIGHWAY	Service Station	Regulation under CLM Act not required	-34.17056496	142.1813847
BURWOOD	Burwood STA Depot	Cnr Shaftesbury and Parramatta ROADS	Other Industry	Contamination formerly regulated under the CLM Act	-33.86982934	151.1089057
BYRON BAY	Residential Development	Lot 15 Seaview STREET	Unclassified	Regulation under CLM Act not required	-28.65214464	153.6165573
BYRON BAY	Butler Street Reserve Byron Bay	Butler STREET	Landfill	Under assessment	-28.64340617	153.6099674

Image 2a. A review of the 'List of NSW Contaminated Sites Notified to the EPA' identified sites currently under regulation within the suburb of Burwood, NSW (*epa.nsw.gov.au*; accessed on 23/04/2022).

COLYTON	Coles Express (former Ampol) Service Station	86-88 Great Western HIGHWAY	Service Station	Contamination formerly regulated under the CLM Act	-33.77552363	150.7953105
CONCORD	Caltex Service Station	89 Parramatta ROAD	Service Station	Regulation under CLM Act not required	-33.86785624	151.0993769
CONCORD WEST	Caltex Service Station - 369 -375 Concord Road, Concord West	369-375 Concord ROAD	Service Station	Regulation under CLM Act not required	-33.84113835	151.0888843

Image 2b. A review of the 'List of NSW Contaminated Sites Notified to the EPA' identified no sites currently under regulation within the suburb of Concord, NSW (*epa.nsw.gov.au*; accessed on 31/05/2022). It is noted



Further details regarding ADE's Services are available via

info@ade.group www.ade.group

ADE Consulting Group Pty Ltd

Sydney
Unit 6/7 Millennium Court,
Silverwater, NSW 2128 Australia

Newcastle
Unit 9/103 Glenwood Drive
Thornton, NSW 2322, Australia

ADE Consulting Group (QLD) Pty Ltd

Brisbane
Unit 3/22 Palmer Place
Murarrie, QLD 4172, Australia

ADE Consulting Group (VIC) Pty Ltd

Melbourne
Unit 4/95 Salmon Street
Port Melbourne, VIC 3207, Australia

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ERM's Sydney Office
Level 15 309 Kent Street
Sydney NSW 2000

T: +61 2 8584 8888

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