



**1686 Channel Highway  
Margate, Tasmania  
Environmental Site Assessment**

*Prepared for*

**Adventure Patch**

1 Diamond Drive  
Blackmans Bay, TAS, 7052, Australia

*3 March 2026*

PROJECT REFERENCE: JN26714

**Elgin Associates Pty Ltd**

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## DOCUMENT INFORMATION

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# EXECUTIVE SUMMARY

## EXECUTIVE SUMMARY

Elgin Associates Pty Ltd (Elgin) has prepared this Environmental Site Assessment (ESA) on behalf of Adventure Patch Pty Ltd to support the development of a childcare facility located at 1686 Channel Highway, Margate, Tasmania ('the site', see **Figure 1, Appendix A**).

The site was previously used as a joinery, and it is understood that the existing building is proposed to be extended and converted into a childcare centre. The proposed development is shown on the provided drawings prepared by Templo Architects for the Falcon Building Group (**Appendix B**).

Joineries are considered a potentially contaminating activity and the proposed use as a childcare centre would constitute a sensitive land use. An ESA was required for the site, due to the change of land use from commercial/industrial to a sensitive use. The objectives of this investigation are to assess the suitability of the land for the proposed use as a childcare facility and to recommend controls to mitigate adverse impacts to human health or the environment during development.

Based on the review of available site information, Elgin identified the following potential sources of contamination:

- Previous site use as a joinery;
- Historical house fire;
- Uncontrolled fill material.

In support of the findings of the desktop searches, Elgin undertook a targeted soil investigation to further quantify potential risks to the environment or to human health posed by potential site contamination impacts. The scope comprised the excavation of five test pits and collection of shallow samples from three boreholes distributed to target areas of interest including the proposed play areas (TP01-TP03), the area underlying the historical joinery (TP04 and TP05), and exposed soils on the northern boundary of the site (BH01-BH03) to assess potential contamination from the historical house fire.

The soil samples were analysed for a broad screen of contaminants, including metals, hydrocarbons, pesticides/herbicides, asbestos, and PFAS. No materials were encountered which showed indication of visual or olfactory signs of contamination (stained, odorous or discoloured materials). The soil analytical results indicated that concentrations of potential contaminants of concern were either below the limit of reporting (LOR) or well below the adopted human-health and ecological criteria. No asbestos was observed during site investigations or reported in any analysed soil samples.

Two samples contained trace concentrations of perfluorooctanesulfonic acid (PFOS), a type of PFAS compound. This may be associated with the previous use of the site as a joinery. As a precautionary measure, it is recommended that a surface soil cover is used in this area, such as turf or astro-turf, to prevent direct contact with existing soils.

Overall, our investigation did not identify contamination that would limit or preclude the proposed use of the site as a childcare facility. With no groundwater extraction at or near the site and contact with groundwater an incomplete exposure pathway at the site, assessment of groundwater was limited to

## EXECUTIVE SUMMARY

desktop review only, with drilling and sampling of monitoring wells outside the scope of this investigation. Groundwater should be further assessed if it was considered to be used for irrigation or other purposes in the future.

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## ABBREVIATIONS

AHD	Australian Height Datum
ALS	Australian Laboratory Services
ASC-NEPM	National Environment Protection (Assessment of Site Contamination) Measure
CSM	Conceptual Site Model
EPA	Environment Protection Authority
ESA	Environmental Site Assessment
m <sup>2</sup>	Metres squared
NATA	National Association of Testing Authorities
NEMP	National Environmental Management Plan
ns	not set
PFAS	Per-and poly-fluoroalkyl substances
PFOS	Perfluorooctanesulfonic acid
RPD	Relative percentage difference
TRH	Total Recoverable Hydrocarbon
N/A	Not Applicable

# INTRODUCTION

## 1 INTRODUCTION

### 1.1 Background

Elgin Associates Pty Ltd (Elgin) has prepared this Environmental Site Assessment (ESA) on behalf of Adventure Patch Pty Ltd to support the development of a childcare facility located at 1686 Channel Highway, Margate, Tasmania ('the site', see **Figure 1**).

It is understood that the existing Channel Construction & Joinery building is proposed to be extended and converted into a childcare centre. The proposed development is shown on the provided drawings prepared by Templo Architects for the Falcon Building Group (**Appendix B**).

Joineries are considered a potentially contaminating activity and the proposed use as a childcare centre would constitute a sensitive land use. An ESA was required for the site, due to the change of land use from commercial/industrial to a sensitive use.

### 1.2 Objectives

The objectives of these works are to assess the suitability of the land for the proposed use as a childcare facility and to recommend controls to mitigate adverse impacts to human health or the environment during development.

### 1.3 Scope of Works

The scope of works consisted of:

- Desktop review of property details, current zoning, site features, land use on and surrounding the site and the environmental setting (hydrogeology, geology, topography). Historical information including a search of public databases, a review of historical land titles ownership, historical aerial photographs of the site and surrounding area and other available historical information relevant to the site.
- A soil investigation, comprising:
  - Review of Dial-Before-You-Dig service plans for underground utilities.
  - Advancement of five test pits (TP01- TP05) to a maximum depth of 1.0 m and three boreholes (BH01-BH03) to 0.2 m.
  - Laboratory analysis of soil samples by a commercial analytical laboratory using methods registered by the National Association of Testing Authorities (NATA) for identified contaminants of concern.
  - Comparison of analytical results with applicable guidelines to provide an indication of the suitability of site soils for the intended land use.
- Development of a Conceptual Site Model (CSM) based on the findings of the investigation and a Tier 1 risk assessment for the identified future receptors.

# INTRODUCTION

- Preparation of this ESA report, including a statement on suitability of the site for the proposed use and recommendations regarding further investigation, management or remediation that may be required

## 1.4 Legislative Framework

The assessment was undertaken in accordance with the framework described in the National Environment Protection (Assessment of Site Contamination) Measure 1999 as amended and in force on 16 May 2013 ('the ASC NEPM') and in reference to relevant environmental legislation, standards and guidance including:

- Tasmania Environmental Management Protection and Pollution Control Act 1994 and associated regulations.
- Tasmania State Policies and Projects Act 1993.



Figure 1: Site Location and Boundary (red)

# SITE SETTING

## 2 SITE SETTING

### 2.1 Site identification

The site is located at 1686 Channel Highway, Margate. The site boundaries are shown in **Figure 1**, with site details described in **Table 2-1** below.

**Table 2-1: Site Details**

Item	Detail
Street Address	1686 Channel Highway, Margate
Property ID	9521006
Title Reference	182312/1
Land Area	~2,350 m2
Current Owner	Graham Young and Demetrios Pafitis
Planning Scheme	Kingborough Interim Planning Scheme 2015
Local Government Area	Kingborough Council
Current Zoning	20 – Local Business
Current Land Use	Vacant joinery showroom

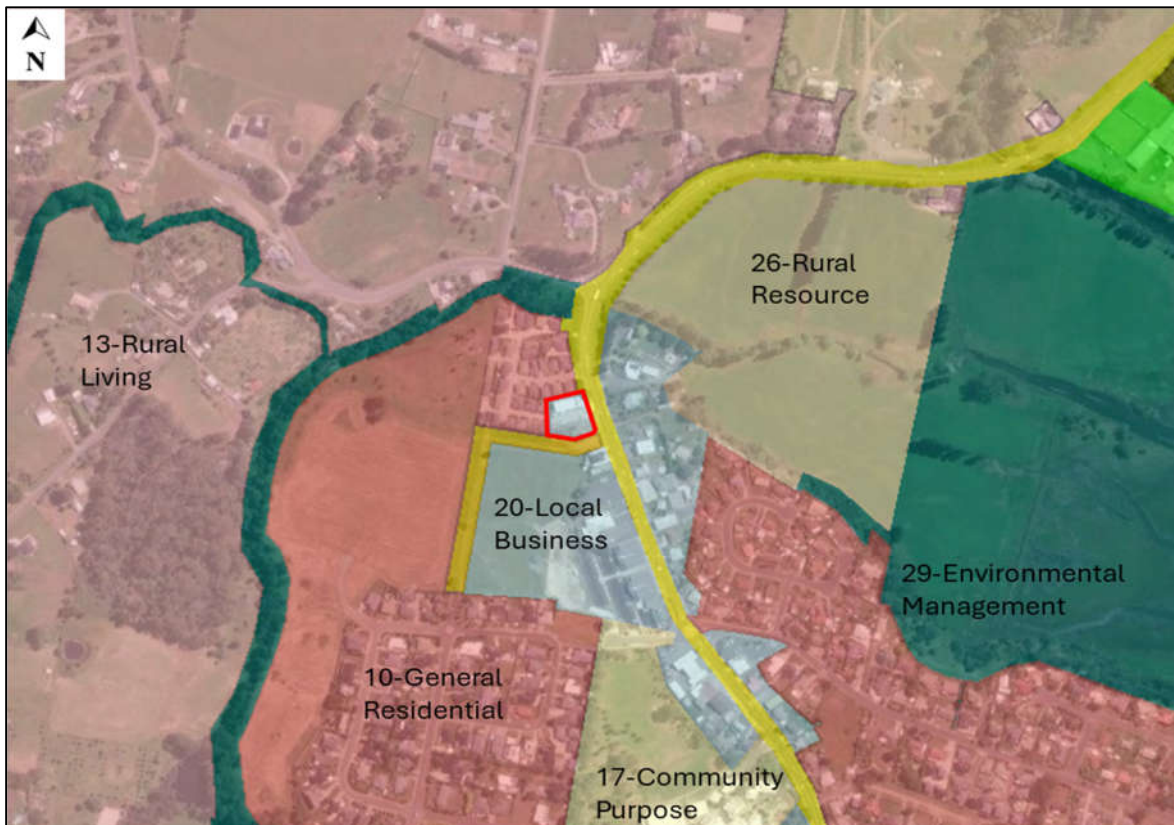
# SITE SETTING

## 2.2 Surrounding Land Use and Zoning

A summary of surrounding land use, including identified sensitive uses, is provided in **Table 2-2** and shown in Figure 2.

**Table 2-2: Surrounding Land Use**

Direction	Zoning	Current Land Use
North	Residential	Directly adjacent the northern boundary of the site is a small residential block (Brooke Side Villas). Further north of Sandfly Road are rural residential properties
East	Local Business	The land to the east of the site is zoned as Local Business and is comprised of both small businesses such as an event venue, Australia Post and Margate Childcare.
South	Local Business	The land to the south of the site is zoned as Local Business and is comprised of small businesses such as Pizzarazzi Margate, the Margate Tavern and a Vinnies store. To the southwest of the site is an undeveloped paddock
West	Residential	Brooke Side Villas also abuts the western boundary of the site. Further to the west are undeveloped paddocks followed by the Margate Rivulet and rural residential properties.

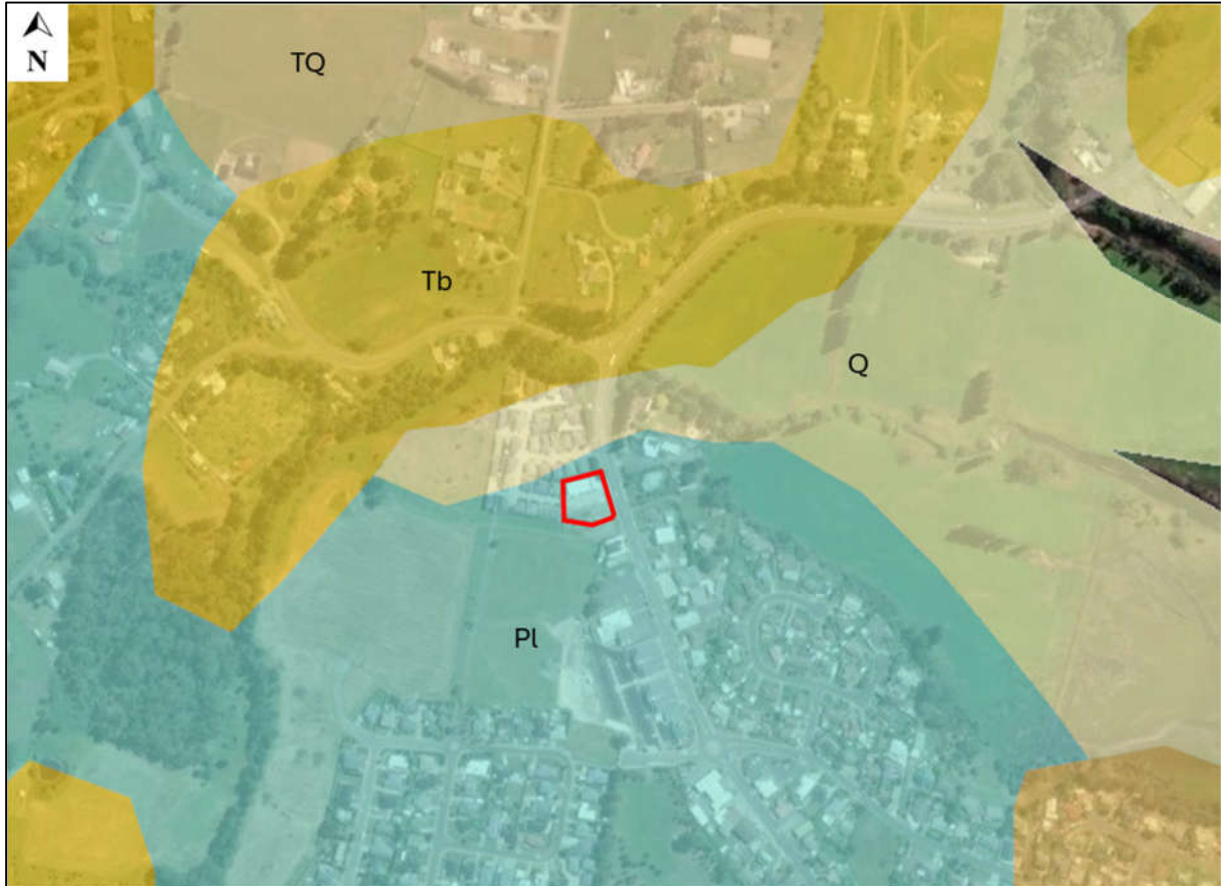


**Figure 2: Zoning Surrounding the Site**

## SITE SETTING

### 2.3 Geology

The Mineral Resources Tasmania's 1:250 000 digital geological sheet (DENRET 2025) indicates that the site is underlain by the Lower Glaciomarine sequence consisting of mudstone, pebbly mudstone, pebbly sandstone, minor limestone and tasmanite oil shale. The geology descriptions for the site and the surrounding area are provided in **Figure 3**.



**Figure 3: Geology Surrounding the Site**

TQ – Undifferentiated Cenozoic Sediments

Pl – Lower Glaciomarine sequence consisting of mudstone, pebbly mudstone, pebbly sandstone, minor limestone, and tasmanite oil shale.

Q – Undifferentiated quaternary sequences

Tb – Neogene basalt and related pyroclastic rocks

## SITE SETTING

### 2.4 Topography and Surface Water

The site is relatively level with an approximate elevation of between 10 and 20 m AHD (**Figure 4**)(DENRET 2026). Surface water across the site is expected to flow with the topography of the site (northeast) infiltrate local soils, and flow offsite into stormwater infrastructure along the Channel Highway.

The nearest surface water body is the Margate Rivulet, located approximately 100 m to the north (downgradient) of the site which discharges into North West Bay approximately 1 km to the east of the site.



Figure 4: Topology Surrounding the Site

### 2.5 Hydrogeology

The hydrogeological unit underlying the site indicates that the groundwater comprises fractured aquifers of moderate - high prospectivity (MRT, 2006). Based on the topography of the area, it is inferred that groundwater direction is likely toward the east.

## SITE SETTING

The closest registered groundwater bore is located approximately 280 m north of the Site (ID 40192). This groundwater bore listed a standing water level of 9 m in 2010. Several other groundwater wells are present to the northwest (>500 m) of the site and are likely used for agricultural purposes. There are no groundwater extraction bores on the site.

### **2.6 Vegetation, Flora, and Fauna**

Vegetation at the site was described in TASVEG 4.0 mapping (DERNET 2025) as FAG – modified land (Urban). The surrounding area to the west also includes eucalypt forest and woodland

A review of threatened flora and fauna species of conservation significance did not identify any areas within 500 m of the site.

# DESKTOP REVIEW

## 3 DESKTOP REVIEW

### 3.1 EPA Records

An information request was submitted to the EPA, and a response was received on 22 December 2025. No EPA records were identified for the site.

### 3.2 Council Records

An information request was submitted to the Kingborough Council, and a response was received on 24 December 2025. No records relating to site contamination were identified for the site and Council stated that the site was not on their register of potentially contaminated land.

### 3.3 WorkSafe Tasmania Records

An information request was submitted to WorkSafe Tasmania (WST) and a response was received on 23 December 2025. WST advised that they do not hold a dangerous goods file for this address. Records of underground fuel storage tanks were held by WST for the Margate area, however no address was specified. In the absence of other evidence of an underground tank having been present onsite, it was assumed that the records were not for this site.

### 3.4 Heritage Records

The site is not listed on the Tasmanian Heritage Register (DNRET 2026).

### 3.5 Interview

The previous site owner Ari Pafitis was interviewed on 28 January 2026. A summary of key information provided during the interview is provided below.

- Mr Pafitis operated the joinery from approximately 2010 until 2025.
- The historical southern building was used as a fruit storage shed (predominantly apples) prior to the joinery business operating. It was constructed out of tin and plaster. No suspected asbestos containing material was observed during demolition in 2023.
- Occupancy prior to the site operating as a joinery in the historical northern building included a café and an accountant office.
- A fire destroyed the historical northern building in 2019, and it was rebuilt as a show room and office.
- No underground storage tanks were known to have been present on the site.
- A previous environmental investigation had been undertaken at the site. Mr Parfitis could not provide this document.

# DESKTOP REVIEW

## 3.6 Aerial Photography Review

A review of select aerial imagery from 1946 to 2024 was undertaken to assess past activities and land use on the site. The photographs were obtained from the Department of Natural Resources and Environment Tasmania (DNRET 2025) and Nearmap.

Historical aerials indicate that the site was a residential property until the late 1990's when the existing shed was developed for commercial use (apple shed). The photographs are reviewed in **Table 3-1** below.

**Table 3-1: Historical Aerial Imagery**

Photograph	Observation
	<p><b>Site:</b> The site is a portion of a larger block of agricultural land. A residential dwelling is present in the northern portion of the site with a large shed in the southern portion with a smaller ancillary shed in the western portion of the site.</p> <p><b>Surrounds:</b> The surrounding area appears to be smaller residential blocks to the east and larger rural properties to the west.</p> <p>Image c/o DNRET. (1965).</p>
	<p><b>Site:</b> The site remains relatively unchanged.</p> <p><b>Surrounds:</b> The surrounding area appears relatively unchanged with the exception of a commercial building now visible approximately 200 m to the south of the site.</p> <p>Image c/o DNRET. (1973).</p>

## DESKTOP REVIEW



**Site:** The site remains relatively unchanged.

**Surrounds:** The surrounding area appears relatively unchanged with the exception of residential development underway visible to the southeast.

Image c/o DNRET. (1981).



**Site:** The site remains relatively unchanged.

**Surrounds:** The surrounding area appears relatively unchanged. The residential development visible to the southeast is now complete.

Image c/o DNRET. (1992).



**Site:** The shed on the southern portion of the site has been extended and now sprawls to the western boundary of the site.

**Surrounds:** The surrounding area appears relatively unchanged.

Image c/o DNRET. (2002).

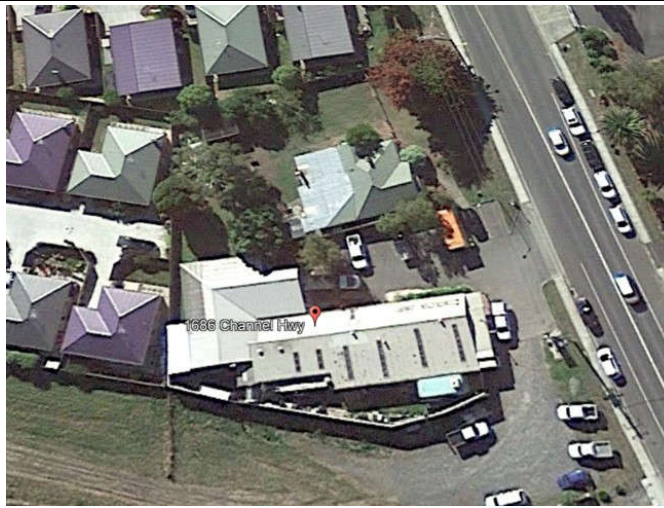
## DESKTOP REVIEW



**Site:** The site appears to be relatively unchanged

**Surrounds:** The residential development adjacent the northern boundary of the site is underway.

Image c/o DNRET. (2012).



**Google Earth (2019)**

Close-up 2019 imagery showing the house which was destroyed by fire in 2019 in the northern part of the site. The new joinery building was built at that location in 2022, with the original joinery in the southern part of the site demolished in 2023.

Summary of historical timeline:

- Pre-1965 – late 1990's: residential property with agricultural shed;
- 1990's – 2010: large shed used for apple packing and storage; house in the northern part of the site used for commercial purposes (café, accountant). The house burnt down in 2019.
- 2010 – 2025: joinery, first operating in the southern part of the site until 2022 when the existing building was built at the location of the burnt house.

# DESKTOP REVIEW

## 3.7 Summary of Potential Site Contamination

Potential contamination sources relevant to the site that have been identified from the desktop review have been listed in **Table 3-2** below. Onsite identified contamination sources included:

- Previous site use as a joinery;
- House fire;
- Uncontrolled use of fill material for site development.

**Table 3-2: Potential Site Contamination**

Location	Potential Source of Contamination	Contaminates of Potential Concern
Onsite	Historical agricultural use	Pesticides, herbicides, metals
Onsite	Previous use as a joinery	Volatile organic compounds, metals, asbestos, PFAS
Onsite	House demolished by fire, potential use of fire suppressants	Metals, petroleum hydrocarbons, PFAS
Onsite	Uncontrolled use of fill material	Organic and inorganic contaminants

# SITE INVESTIGATION

## 4 SITE INVESTIGATION

### 4.1 Data Quality Objectives

Data Quality Objectives (DQOs) were developed through a seven-step process to define the dataset required to inform decisions on the environmental condition of the site, and followed the guidance provided in the ASC NEPM:

1. State the problem.
2. Identify the decision/goal of the study.
3. Identify the information inputs.
4. Define the boundaries of the study.
5. Develop the analytical approach.
6. Specify acceptance criteria.
7. Develop the plan for collecting the data.

DQOs adopted for the assessment are summarised in **Table 4-1**, below:

**Table 4-1: Data Quality Objectives**

Statement	Consideration
Step 1: State the problem	An assessment of potential contamination is required for the site, due to site use changing from commercial/industrial (joinery) to a sensitive use (childcare centre). The assessment is required to characterise the current contamination status and compare the status against screening criteria consistent with the proposed development.
Step 2: Identify the decision/goal of the study	Collect sufficient data to characterise soil quality and assess risk. If present, does the identified contamination pose an unacceptable risk to future site users or the environment?
Step 3: Identify the decision inputs	Review publicly available information. Lithological data and visual/olfactory indicators of hydrocarbon impact. Soil analytical data for relevant contaminants of potential concern (COPCs). Compare soil results to applicable guidelines (Tier 1 risk assessment).
Step 4: Define the boundaries of the study	Investigations are to be undertaken within the site boundary, as identified in <b>Figure 1</b> . The vertical extent of the investigation is the depth of proposed excavation.
Step 5: Develop the analytical approach	Analytical approach was undertaken in accordance with ASC NEPM guidelines. Targeted analysis included hydrocarbons, metals, pesticides, asbestos and PFAS. This included field and laboratory control samples.



# SITE INVESTIGATION

Statement	Consideration
Step 6: Specify performance or acceptance criteria	<p>Performance or acceptance criteria for data and its quality are to include:</p> <ul style="list-style-type: none"> <li>• Historical information obtained is applicable for the site and immediate surrounds.</li> <li>• Soil sampling is undertaken in accordance with adopted methodologies by suitably qualified and experienced environmental scientists, with good record keeping, decontamination procedures and collection of field QA/QC samples that indicate high quality field protocols was achieved.</li> <li>• Laboratory analytical data is of a high quality and suitable for interpretive use, as indicated by internal laboratory QA/QC data and correlation with secondary laboratory data.</li> </ul>
Step 7: Develop the plan for obtaining data	A sampling plan was prepared based on the site history and potential contamination sources, and to address future exposure pathways.

## 4.2 Assessment Criteria

Soil assessment screening criteria have been adopted from the following reference documents:

- ASC NEPM (2013);
- Supporting technical reports prepared by Cooperative Research Centre for Contamination Assessment and Remediation of the Environment (CRC CARE); and
- PFAS National Environmental Management Plan (NEMP; HEPA 2025).

This framework provides generic screening criteria and supporting development information for the protection of human health and ecological receptors associated with a future childcare centre. As outlined in the ASC-NEPM, the generic land use adopted for childcare centres is Low-Density Residential (Residential-A). Criteria for the assessment of risks to future intrusive maintenance workers have been adopted from the CRC Care Technical report No.10. The adopted soil assessment criteria are provided in **Table 4-2**.

**Table 4-2: Adopted Assessment Criteria**

Guidelines	Criteria	Rationale
ASC NEPM; CRC Care Technical Report No. 10; PFAS NEPM (HEPA 2025)	Soil Health Investigation Levels for residential use (HIL A)	Assessment of human health risk for the proposed site use.
	Soil Health Screening Levels for vapour intrusion, residential use (HSL-A) - sand soils.	Assessment of risks from hydrocarbon vapour intrusion into buildings.
	Soil Health Screening Levels for vapour intrusion, intrusive maintenance workers, Shallow Trench.	Assessment of risks from hydrocarbon vapour intrusion into shallow trenches.



# SITE INVESTIGATION

Guidelines	Criteria	Rationale
	Soil Ecological Investigation and Screening Levels residential use (coarse soils).	Assessment of ecological risk (terrestrial ecosystems) from soil contaminants.
	Direct Contact Health Screening Levels for residential use and intrusive maintenance workers.	Assessment of risk to future site users and intrusive maintenance workers from direct contact with petroleum hydrocarbons.

## 4.3 Fieldwork Method

Test pits were excavated by Channel Earthworks under Elgin supervision on 4 February 2026 with soil sampling work conducted in accordance with the Elgin Standard Operating Procedures. Three shallow bore holes were advanced using a hand auger in the northern portion of the site. The sampling locations are shown on attached **Figure A1, Appendix A**. Soil conditions encountered were recorded on logs provided in **Appendix C**. The soil sampling methodology is detailed in **Table 4-3**.

**Table 4-3: Fieldwork Methodology**

Task	Methodology
Service Clearance	<p>Due to the requirement for intrusive works and the potential for unknown services to be present, investigation locations were cleared of underground and overhead services via the following methodology:</p> <p>Review available service plans from Before You Dig Australia (BYDA). Available plans were obtained from relevant sources and provided to the service locator for review prior to mobilisation to site.</p> <p>Inspection of the site and immediate off-site areas for surface evidence or signage indicating underground utility location.</p> <p>Tracing known and redundant (where possible) underground utilities by a licensed service locator.</p>
Soil Sampling	<p>Geological and environmental conditions encountered at each location were logged on standard field forms. Soil lithology was logged in accordance with the Unified Soil Classification System (USCS). Visual and olfactory observations such as material composition, inclusions, moisture, odours, sheen, and staining was recorded.</p> <p>Soil samples collected at each location were placed into laboratory supplied jars and chilled immediately on ice. Soil samples were generally collected at near surface (&lt;0.1 m), then 0.5 m intervals thereafter to maximum depth of each location. Different lithologies were also sampled based on observations (e.g. changes in lithology) in the field.</p> <p>Samples were screened in the field using a Photo-ionisation detector (PID) to guide sampling and laboratory analysis.</p>
Decontamination	<p>Sampling procedures used to prevent cross contamination included:</p> <p>The use of dedicated disposable nitrile gloves that were replaced between each sample collection and location.</p>



## SITE INVESTIGATION

Task	Methodology
	Soil samples from test pits were recovered from the centre of the excavator bucket from soil that had not touched any part of the machine. The hand auger used to advance bores holes was decontaminated between each sample location using a PFAS free detergent (Liquinox).
Backfill	Given that no signs of impacted soils were observed during site investigations, test pit materials were reinstated with emphasis on replacing material in accordance with the observed profile.

### 4.4 Analytical Testing

Sample analysis was undertaken by Australian Laboratory Services (ALS), which is National Association of Testing Authorities (NATA) accredited for the analyses performed. Analysis included a quality assurance program with internal spikes, duplicates, and method blanks, and reported results at sufficiently low limits of reporting (LOR) to allow comparison with the adopted guidelines.

The laboratory analysis of primary samples included COPCs that were identified in the site history with the analytical schedule summarised in **Table 4-4**.

**Table 4-4: Analytical Schedule**

Analytical Suite	Number of samples analysed
NEPM HIL suite of contaminants (15 metals and inorganics, TRH, BTEXN, PAH, OCP, OPP, herbicides, phenols, PCB)	3
NEPM 15 Metals	9
TRH, BTEXN, PAHs, metals (8)	11
Asbestos in soils	5
PFAS	5

*Notes: 15 metals and inorganics = arsenic, beryllium, boron, cadmium, chromium (VI), cobalt, copper, lead, manganese, mercury, methyl mercury, nickel, selenium, zinc, cyanide; TRH = total recoverable hydrocarbons; BTEXN = benzene, toluene, ethylbenzene, xylenes and naphthalene; PAH = polycyclic aromatic hydrocarbons; OCP = organochlorine pesticides; OPP = organophosphorus pesticides; PCB = polychlorinated biphenyls*

# RESULTS

## 5 RESULTS

### 5.1 Field Observations

An inspection of the site was undertaken by an Elgin Environmental Scientist on 4 February 2026. Photographs taken during the inspection are provided in **Appendix D**. At the time of the inspection, the following key site features were observed:

- The site was currently vacant.
- The existing joinery building was present in the northern portion of the site. This was inaccessible during site works.
- The southern portion of the site was raised due to civil earthworks cutting the area adjacent to the building to build a concrete slab.
- Various construction items were stored around the site boundary (ceramic tiles, concrete bricks, scrap metal etc).
- Three layers of fill material were observed during site works.
  - Grey gravelly sand (surface soils at TP01).
  - Grey gravelly sandy silt (surface soils at TP02-04).
  - Grey sandy gravel (surface soils at TP05).
- Underlying natural soils were comprised of brown clays with orange and grey mottling with trace sands.
- No ACMs were observed amongst the sampled soils.

### 5.2 Analytical Results

Tabulated results from the soil samples submitted for analysis are provided in **Appendix E**, with laboratory certificates of analysis provided in **Appendix F**. The summary findings of the soil assessment were as follows:

- All COPCs were reported below the adopted human-health assessment criteria.
- Metals were reported above the laboratory Limit of Reporting (LOR) in the majority of samples, however all concentrations were well below the adopted assessment criteria.
- Perfluorooctanesulfonic acid (PFOS), a type of PFAS compound, was reported at the LOR in sample TP01\_0-0.1 (0.0002 mg/kg) and marginally above the laboratory LOR in sample BH03\_0-0.1 m (0.0006 mg/kg). These concentrations are one order of magnitude lower than both human health and ecological criteria (0.003 mg/kg). All other reported PFAS compounds were below the LOR. Three other samples were tested for PFAS, with all concentrations reported below the LOR.
- Petroleum hydrocarbons, BTEXN, PAHs, OCPs, OPPs, and phenols were all reported below the laboratory LOR in analysed samples.

# RESULTS

## 5.3 Quality Assurance and Quality Control

The sampling program and analytical data was checked and validated for its reliability and suitability for interpretive use, based on guidance in the ASC NEPM (2013). The data validation review is included in **Appendix G**, along with tabulated field duplicate results with relative percent difference (RPD) calculations.

Based on the findings of the review, the dataset was considered reliable and suitable for interpretive use.

# RISK ASSESSMENT

## 6 RISK ASSESSMENT

### 6.1 Conceptual Site Model

A Conceptual Site Model (CSM) was developed based on the information gathered in this ESA. A CSM is a qualitative description of the mechanisms by which potential and/or complete exposure pathways exist between known or potential sources of property impacts, and human or environmental receptors.

In order for a human receptor to be exposed to a chemical contaminant derived from a property, a complete exposure pathway must exist. An exposure pathway describes the course a chemical or physical agent takes from the source to the exposed individual and generally includes the following elements (ASC-NEPM):

- A source and mechanism of chemical release;
- A retention or transport medium (or media where chemicals are transferred between media);
- A point of potential human contact with the contaminated media; and
- An exposure route (e.g. ingestion, inhalation).

Where one or more of the above elements is missing, the exposure pathway is incomplete and there is therefore no direct risk to the receptors. Where this is identified, the exposure pathway does not warrant further assessment. Where a plausible linkage may exist or has the potential to exist, the exposure pathway is considered further in terms of risk assessment.

#### 6.1.1 Potential Sources of Contamination

The potential sources of contamination identified for the site during the desktop review were:

- Historical use as a joinery;
- House fire on-site in 2019; and
- Uncontrolled use of fill material on the site.

Two surface samples contained trace concentrations of PFOS, a type of PFAS compound. This may be from the historical use of materials or products containing PFAS during operation of the site as a joinery, such as wood finishes, coatings, glues or surfactants.

The investigation did not identify any contaminant concentrations exceeding the adopted human health or ecological assessment criteria in either natural or fill soils.

# RISK ASSESSMENT

## 6.1.2 Potential Transport Mechanisms and Exposure Routes

The main transport mechanisms and exposure routes by which the current and future site receptors may be affected include:

- Ingestion (hand to mouth, direct ingestion, or inhalation) and dermal contact with contaminant laden dust and surface soil; and
- Plant root uptake from potentially contaminant laden soils.

## 6.1.3 Potential Receptors

The following potential key site-specific receptors have been identified:

- Future childcare users (dermal, ingestion and inhalation).
- Maintenance and construction workers (dermal, ingestion and inhalation) should they be exposed to potentially contaminated soil.
- Soil biota onsite including trees, plants, and other organisms.

## 6.2 Gaps and Uncertainties

The following gaps and uncertainties have been identified:

- Samples were only collected for PFAS analysis along the northern site boundary, at the location of the former burnt house. No samples were collected for PFAS analysis from other parts of the site. This is not considered a significant gap, on the basis that the PFOS concentration reported at location BH03 was one order of magnitude below the applicable guideline and that all reported PFAS concentrations in the other sample collected (BH01) were below the LOR. As a precaution, mitigation measures have been provided below.
- With no groundwater extraction at or near the site, and direct contact with groundwater an incomplete exposure pathway at the site, assessment of groundwater was limited to desktop review only, with drilling and sampling of monitoring wells outside the scope of this investigation. Groundwater should be further assessed if it was considered to be used for irrigation or other purposes in the future.

## 6.3 Risk Assessment

Based on the results of this investigation, a risk assessment has been undertaken for each of the identified potential receptors, which is presented below.

### Assessment of human health risks:

All reported contaminant concentrations were either below the limit of reporting or well below the adopted human health assessment criteria for the proposed childcare use. Consequently, the source-pathway-receptor linkages are either incomplete or if they are complete, there are no unacceptable risks identified for future users of the site.



## RISK ASSESSMENT

However, given that PFOS was reported in one sample at the limit of reporting at the location of the proposed outdoor play area, it is recommended that a surface soil cover is used in this area, such as turf or astro-turf, as a precautionary measure to prevent direct contact with existing soils.

### **Assessment of ecological risks:**

All reported contaminant concentrations were either below the limit of reporting or well below the adopted ecological assessment criteria.

# SUMMARY AND CONCLUSIONS

## 7 CONCLUSIONS AND RECOMMENDATIONS

### 7.1 Summary

Elgin was engaged by Adventure Patch to undertake an ESA to support the development of a childcare facility as part a Development Application, to address Clause E2.5 of the Potentially Contaminated Land Code of the Kingborough Interim Planning Scheme 2015.

Based on the review of available site information, Elgin identified the following potential sources of contamination:

- Historical site use as a joinery;
- House fire on-site in 2019; and
- Use of uncontrolled fill material.

In support of the findings of the desktop searches, Elgin undertook a targeted soil investigation to further quantify potential risks to human health or the environment during redevelopment and future use. The scope included the excavation of five test pits and collection of shallow samples from three boreholes, distributed to target areas of interest including the proposed play areas (TP01-TP03), the area underlying the historical joinery (TP04 and TP05), and exposed soils on the northern boundary of the site (BH01-BH03).

The soil samples were analysed for a broad screen of contaminants, including metals, hydrocarbons, pesticides/herbicides, asbestos and PFAS. No materials were encountered which showed any indication of visual or olfactory signs of contamination (stained, odorous or discoloured materials). The soil analytical results indicated that concentrations of potential contaminants of concern were either below the limit of reporting or well below the adopted human-health and ecological criteria. No asbestos was observed during site investigations or reported in any analysed soil samples.

Two samples contained trace concentrations of perfluorooctanesulfonic acid (PFOS), a type of PFAS compound. This may be associated with the previous use of the site as a joinery. As a precautionary measure, it is recommended that a surface soil cover is used in this area, such as turf or astro-turf, to prevent direct contact with existing soils.

### 7.2 Conclusions

Overall, our investigation did not identify contamination that would limit or preclude the proposed use of the site as a childcare facility.

With no groundwater extraction at or near the site, and direct contact with groundwater an incomplete exposure pathway at the site, assessment of groundwater was limited to desktop review only, with drilling

## SUMMARY AND CONCLUSIONS

and sampling of monitoring wells outside the scope of this investigation. Groundwater should be further assessed if it was considered to be used for irrigation or other purposes in the future.



## REFERENCES

### 8 REFERENCES

DNRET (2026). Department of Natural Resources and Environment Tasmania - The List Map. Accessed January 2026. Available at <https://maps.thelist.tas.gov.au/listmap/app/list/map>.

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Reimann C & Caritat P (2017). Establishing geochemical background variation and threshold values for 59 elements in Australian surface soil. *Science of the Total Environment* 578: 633-648.

Tasmanian Acid Sulphate Soil Management Guidelines (DPIPWE, 2009).

Tasmanian Government (1994). Environmental Management and Pollution Control Act 1994 (EMPCA).

# LIMITATIONS

## 9 LIMITATIONS

Elgin Associates Pty Ltd has prepared this report for the sole use of Adventure Patch in accordance with the usual care and thoroughness of the consulting profession. It is based on generally accepted practices and standards at the time it was prepared. No other warranty, expressed or implied, is made as to the professional advice included in this report. It is prepared in accordance with the scope of work and for the purpose outlined in Proposal 25765 dated 9 January 2026.

The methodology adopted and sources of information used by Elgin Associates are outlined in this report. Elgin Associates has made no independent verification of this information beyond the agreed scope of work and Elgin Associates assumes no responsibility for any inaccuracies or omissions. No indications were found during our investigations that information contained in this report as provided to Elgin Associates was false.

This ESA was prepared between January and February 2026 and is based on the conditions encountered and information reviewed during that period up to the time of preparation. Elgin Associates disclaims responsibility for any changes that may have occurred after this time. Opinions and recommendations contained in this report are based upon information gained during desktop study and fieldwork and information provided by government authorities' records and other third parties. The information in this report is considered to be accurate at the date of issue and reflects the site at the dates sampled. This document and the information contained herein should only be regarded as validly representing the site conditions at the time of the fieldwork unless otherwise explicitly stated in a preceding section of this report.

This report should be read in full together with all other reports referenced by this report. No responsibility is accepted for use of any part of this report in any other context or for any other purpose or by third parties.

# APPENDICES

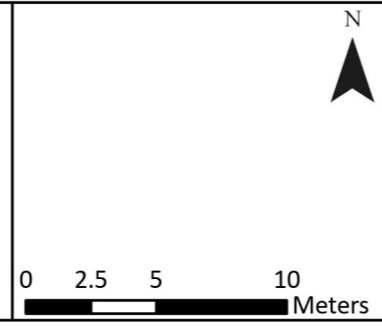
## APPENDIX A: FIGURES





Sources: Esri, Vantor, Airbus DS, USGS,

<b>Legend</b> Sampling Locations Bore Holes Test Pit Site Boundary Cadastral Parcels	Site: 1686 Channel Highway  Client: Adventure Patch	Title: Sampling Locations	<b>Figure 1</b>



# APPENDICES

## APPENDIX B: TABULATED RESULTS



Table 1 - Soil Analytical Results  
JN26714  
1686 Channel Highway

Parameter Suite	Analyte Name	NEPM ASC (2013) HIL-A <sup>1</sup>	NEPM ASC (2013) Vapour Intrusion <sup>2</sup> HSL-A & HSL-B	CRC Care (2011) Vapour Intrusion <sup>6</sup> IMW shallow trench SAND 0 to <2 m	NEPM ASC (2013) Direct Contact <sup>5</sup> HSL-A	NEPM ASC (2013) ESL & EIL Urban Residential & Public Open Space <sup>3</sup>	Sample ID	TP01_0-0.1	QC01	TP01_0.4-0.5	TP01_0.9-1.0	TP02_0-0.1	TP02_0.5-0.6	TP02_0.9-1.0	TP03_0-0.1
			SAND 0 to <1 m /			COARSE	Date	4/02/2026	4/02/2026	4/02/2026	4/02/2026	4/02/2026	4/02/2026	4/02/2026	4/02/2026
		Units	LOR												
Total Metals	Arsenic	100				100	mg/kg	5	<5	<5	<5	<5	<5	<5	<5
	Beryllium	60					mg/kg	1	<1	-	-	<1	-	<1	<1
	Boron	4500					mg/kg	50	<50	-	-	<50	-	<50	<50
	Cadmium	20					mg/kg	1	<1	<1	<1	<1	<1	<1	<1
	Chromium	100 (CrVI)				250	mg/kg	2	5	5	3	27	8	41	35
	Chromium (hexavalent)						mg/kg	0.5	<0.5	-	-	<0.5	-	-	<0.5
	Cobalt	100					mg/kg	2	7	-	-	<2	9	-	3
	Copper	6000				210	mg/kg	5	63	66	<5	<5	69	9	7
	Lead	300				1100	mg/kg	5	6	11	<5	8	38	13	12
	Manganese	3800					mg/kg	5	115	-	-	<5	187	-	<5
	Nickel	400				270	mg/kg	2	16	15	<2	3	17	6	5
	Selenium	200					mg/kg	5	<5	-	-	<5	<5	-	<5
	Zinc	7400				400	mg/kg	5	25	36	<5	<5	116	11	8
Mercury	40					mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Total Petroleum Hydrocarbons	TRH C6-C9						mg/kg	10	<10	<10	<10	-	<10	<10	<10
	TRH C10-C14						mg/kg	50	<50	<50	<50	-	<50	<50	<50
	TRH C15-C28						mg/kg	100	<100	<100	<100	-	<100	<100	<100
	TRH C29-C36						mg/kg	100	<100	<100	<100	-	<100	<100	<100
	TRH C10-C36 (Total)						mg/kg	50	<50	<50	<50	-	<50	<50	<50
Total Recoverable Hydrocarbons	TRH C6-C10			NL	4400		mg/kg	10	<10	<10	<10	-	<10	<10	<10
	TRH C6-C10 less BTEX (F1)		45			180	mg/kg	10	<10	<10	<10	-	<10	<10	<10
	TRH >C10-C16			NL	3300		mg/kg	50	<50	<50	<50	-	<50	<50	<50
	TRH >C16-C34				4500	300	mg/kg	100	<100	<100	<100	-	<100	<100	<100
	TRH >C34-C40				6300	2800	mg/kg	100	<100	<100	<100	-	<100	<100	<100
	TRH >C10-C40 (total)*						mg/kg	50	<50	<50	<50	-	<50	<50	<50
	TRH >C10-C16 less Naphthalene (F2)		110			120	mg/kg	50	<50	<50	<50	-	<50	<50	<50
MAHs	Benzene		0.5	77	100	50	mg/kg	0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2
	Toluene		160	NL	14000	85	mg/kg	0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5
	Ethylbenzene		55	NL	4500	70	mg/kg	0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5
	m&p-Xylenes						mg/kg	0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5
	o-Xylene						mg/kg	0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5
	Xylenes - Total*		40	NL	12000	105	mg/kg	0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5
	Naphthalene		3	NL	1400	170	mg/kg	0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5
PAHs	Acenaphthylene						mg/kg	0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5
	Acenaphthene						mg/kg	0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5
	Fluorene						mg/kg	0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5
	Phenanthrene						mg/kg	0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5
	Anthracene						mg/kg	0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5
	Fluoranthene						mg/kg	0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5
	Pyrene						mg/kg	0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5
	Benzo(a)anthracene						mg/kg	0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5
	Chrysene						mg/kg	0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5
	Benzo(b&j)fluoranthene						mg/kg	0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5
	Benzo(k)fluoranthene						mg/kg	0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5
	Benzo(a)pyrene	3				0.7	mg/kg	0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5
	Indeno(1,2,3-cd)pyrene						mg/kg	0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5
	Dibenz(a,h)anthracene						mg/kg	0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5
	Benzo(g,h,i)perylene						mg/kg	0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5
	Total PAH*	300					mg/kg	1	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5
	Benzo(a)pyrene TEQ (lower bound) *	3					mg/kg	0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5
	Benzo(a)pyrene TEQ (medium bound) *	3					mg/kg	0.5	0.6	0.6	0.6	-	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	3					mg/kg	0.5	1.2	1.2	1.2	-	1.2	1.2	1.2	
Phenols	Phenol	3000					mg/kg	0.5	<0.5	-	-	<0.5	-	-	<0.5
	2-Chlorophenol						mg/kg	0.5	<0.5	-	-	<0.5	-	-	<0.5
	2-Methylphenol (o-Cresol)						mg/kg	0.5	<0.5	-	-	<0.5	-	-	<0.5
	2-Nitrophenol						mg/kg	0.5	<0.5	-	-	<0.5	-	-	<0.5
	2,4-Dimethylphenol						mg/kg	0.5	<0.5	-	-	<0.5	-	-	<0.5
	2,4-Dichlorophenol						mg/kg	0.5	<0.5	-	-	<0.5	-	-	<0.5
	2,6-Dichlorophenol						mg/kg	0.5	<0.5	-	-	<0.5	-	-	<0.5
	4-Chloro-3-methylphenol						mg/kg	0.5	<0.5	-	-	<0.5	-	-	<0.5
	2,4,6-Trichlorophenol						mg/kg	0.5	<0.5	-	-	<0.5	-	-	<0.5
	2,4,5-Trichlorophenol						mg/kg	0.5	<0.5	-	-	<0.5	-	-	<0.5
	Pentachlorophenol	100					mg/kg	2	<2	-	-	<2	-	-	<2

Table 1 - Soil Analytical Results  
JN26714  
1686 Channel Highway

Parameter Suite	Analyte Name	NEPM ASC (2013) HIL-A <sup>1</sup>	NEPM ASC (2013) Vapour Intrusion <sup>2</sup> HSL-A & HSL-B	CRC Care (2011) Vapour Intrusion <sup>6</sup> IMW shallow trench SAND 0 to <2 m	NEPM ASC (2013) Direct Contact <sup>5</sup> HSL-A	NEPM ASC (2013) ESL & EIL Urban Residential & Public Open Space <sup>3</sup>	Sample ID	TP03_0.4-0.5	TP03_0.9-1.0	TP04_0-0.1	TP04_0.4-0.5	TP04_0.9-1.0	TP05_0-0.1	TP05_0.2-0.3	TP05_0.4-0.5	
		SAND 0 to <1 m /			COARSE											
		Date	4/02/2026	4/02/2026	4/02/2026	4/02/2026										4/02/2026
		Units	LOR													
Total Metals	Arsenic	100				100		<5	<5	<5	<5	<5	<5	<5	<5	<5
	Beryllium	60						-	<1	-	-	<1	-	-	<1	<1
	Boron	4500						-	<50	-	-	<50	-	-	<50	<50
	Cadmium	20						<1	<1	<1	<1	<1	<1	<1	<1	<1
	Chromium	100 (CrVI)				250		12	27	3	27	21	3	2	6	6
	Chromium (hexavalent)							0.5	-	-	-	-	-	-	-	-
	Cobalt	100						2	<2	-	-	<2	-	-	<2	<2
	Copper	6000				210		5	<5	6	12	<5	<5	65	<5	<5
	Lead	300				1100		5	<5	8	34	8	7	6	50	<5
	Manganese	3800						5	<5	<5	-	-	<5	-	-	<5
	Nickel	400				270		2	<2	4	<2	3	3	14	<2	2
	Selenium	200						5	-	<5	-	-	<5	-	-	<5
	Zinc	7400				400		5	5	7	59	11	<5	21	10	<5
Mercury	40						0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	0.1	<0.1	
Total Petroleum Hydrocarbons	TRH C6-C9							10	<10	-	<10	<10	-	<10	<10	-
	TRH C10-C14							50	<50	-	<50	<50	-	<50	<50	-
	TRH C15-C28							100	<100	-	<100	<100	-	<100	<100	-
	TRH C29-C36							100	<100	-	<100	<100	-	<100	<100	-
	TRH C10-C36 (Total)							50	<50	-	<50	<50	-	<50	<50	-
Total Recoverable Hydrocarbons	TRH C6-C10			NL	4400			10	<10	-	<10	<10	-	<10	<10	-
	TRH C6-C10 less BTEX (F1)		45			180		10	<10	-	<10	<10	-	<10	<10	-
	TRH >C10-C16			NL	3300			50	<50	-	<50	<50	-	<50	<50	-
	TRH >C16-C34				4500	300		100	<100	-	<100	<100	-	<100	<100	-
	TRH >C34-C40				6300	2800		100	<100	-	<100	<100	-	<100	<100	-
	TRH >C10-C40 (total)*							50	<50	-	<50	<50	-	<50	<50	-
	TRH >C10-C16 less Naphthalene (F2)		110			120		50	<50	-	<50	<50	-	<50	<50	-
MAHs	Benzene		0.5	77	100	50		0.2	<0.2	-	<0.2	<0.2	-	<0.2	<0.2	-
	Toluene		160	NL	14000	85		0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-
	Ethylbenzene		55	NL	4500	70		0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-
	m&p-Xylenes							0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-
	o-Xylene							0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-
	Xylenes - Total*		40	NL	12000	105		0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-
	Naphthalene		3	NL	1400	170		0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-
PAHs	Acenaphthylene							0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-
	Acenaphthene							0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-
	Fluorene							0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-
	Phenanthrene							0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-
	Anthracene							0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-
	Fluoranthene							0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-
	Pyrene							0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-
	Benzo(a)anthracene							0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-
	Chrysene							0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-
	Benzo(b&j)fluoranthene							0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-
	Benzo(k)fluoranthene							0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-
	Benzo(a)pyrene	3				0.7		0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-
	Indeno(1,2,3-cd)pyrene							0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-
	Dibenz(a,h)anthracene							0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-
	Benzo(g,h,i)perylene							0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-
	Total PAH*	300						1	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-
	Benzo(a)pyrene TEQ (lower bound) *	3						0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-
	Benzo(a)pyrene TEQ (medium bound) *	3						0.5	0.6	-	0.6	0.6	-	0.6	0.6	-
	Benzo(a)pyrene TEQ (upper bound) *	3						0.5	1.2	-	1.2	1.2	-	1.2	1.2	-
Phenols	Phenol	3000						0.5	-	-	-	-	-	-	-	-
	2-Chlorophenol							0.5	-	-	-	-	-	-	-	-
	2-Methylphenol (o-Cresol)							0.5	-	-	-	-	-	-	-	-
	2-Nitrophenol							0.5	-	-	-	-	-	-	-	-
	2,4-Dimethylphenol							0.5	-	-	-	-	-	-	-	-
	2,4-Dichlorophenol							0.5	-	-	-	-	-	-	-	-
	2,6-Dichlorophenol							0.5	-	-	-	-	-	-	-	-
	4-Chloro-3-methylphenol							0.5	-	-	-	-	-	-	-	-
	2,4,6-Trichlorophenol							0.5	-	-	-	-	-	-	-	-
	2,4,5-Trichlorophenol							0.5	-	-	-	-	-	-	-	-
	Pentachlorophenol	100						2	-	-	-	-	-	-	-	-

**Table 1 - Soil Analytical Results**  
**JN26714**  
**1686 Channel Highway**

Parameter Suite	Analyte Name	NEPM ASC (2013) HIL-A <sup>1</sup>	NEPM ASC (2013) Vapour Intrusion <sup>2</sup> HSL-A & HSL-B	CRC Care (2011) Vapour Intrusion <sup>6</sup> IMW shallow trench SAND 0 to <2 m	NEPM ASC (2013) Direct Contact <sup>5</sup> HSL-A	NEPM ASC (2013) ESL & EIL Urban Residential & Public Open Space <sup>3</sup>	Sample ID	TP05_0.9-1.0	BH01_0-0.1	BH01_0.1-0.2	BH02_0-0.1	BH02_0.1-0.2	BH03_0-0.1	BH03_0.1-0.2
			SAND 0 to <1 m /			COARSE	Date	4/02/2026	4/02/2026	4/02/2026	4/02/2026	4/02/2026	4/02/2026	4/02/2026
		Units	LOR											
Total Metals	Arsenic	100				100	mg/kg	5	<5	<5	<5	<5	<5	<5
	Beryllium	60					mg/kg	1	<1	-	<1	-	<1	<1
	Boron	4500					mg/kg	50	<50	<50	<50	<50	<50	<50
	Cadmium	20					mg/kg	1	<1	<1	<1	<1	<1	<1
	Chromium	100 (CrVI)				250	mg/kg	2	19	4	4	7	7	8
	Chromium (hexavalent)						mg/kg	0.5	-	-	-	-	-	-
	Cobalt	100					mg/kg	2	<2	-	<2	-	<2	<2
	Copper	6000				210	mg/kg	5	<5	<5	<5	25	13	8
	Lead	300				1100	mg/kg	5	6	20	17	73	40	37
	Manganese	3800					mg/kg	5	<5	-	11	-	109	-
	Nickel	400				270	mg/kg	2	3	<2	<2	3	3	3
	Selenium	200					mg/kg	5	<5	-	<5	-	<5	<5
	Zinc	7400				400	mg/kg	5	<5	20	17	110	58	55
Mercury	40					mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	
Total Petroleum Hydrocarbons	TRH C6-C9						mg/kg	10	<10	-	<10	-	<10	-
	TRH C10-C14						mg/kg	50	<50	-	<50	-	<50	-
	TRH C15-C28						mg/kg	100	<100	-	<100	-	<100	-
	TRH C29-C36						mg/kg	100	<100	-	<100	-	<100	-
	TRH C10-C36 (Total)						mg/kg	50	<50	-	<50	-	<50	-
Total Recoverable Hydrocarbons	TRH C6-C10			NL	4400		mg/kg	10	<10	-	<10	-	<10	-
	TRH C6-C10 less BTEX (F1)		45			180	mg/kg	10	<10	-	<10	-	<10	-
	TRH >C10-C16			NL	3300		mg/kg	50	<50	-	<50	-	<50	-
	TRH >C16-C34				4500	300	mg/kg	100	<100	-	<100	-	<100	-
	TRH >C34-C40				6300	2800	mg/kg	100	<100	-	<100	-	<100	-
	TRH >C10-C40 (total)*						mg/kg	50	<50	-	<50	-	<50	-
	TRH >C10-C16 less Naphthalene (F2)		110			120	mg/kg	50	<50	-	<50	-	<50	-
MAHs	Benzene		0.5	77	100	50	mg/kg	0.2	<0.2	-	<0.2	-	<0.2	-
	Toluene		160	NL	14000	85	mg/kg	0.5	<0.5	-	<0.5	-	<0.5	-
	Ethylbenzene		55	NL	4500	70	mg/kg	0.5	<0.5	-	<0.5	-	<0.5	-
	m&p-Xylenes						mg/kg	0.5	<0.5	-	<0.5	-	<0.5	-
	o-Xylene						mg/kg	0.5	<0.5	-	<0.5	-	<0.5	-
	Xylenes - Total*		40	NL	12000	105	mg/kg	0.5	<0.5	-	<0.5	-	<0.5	-
	Naphthalene		3	NL	1400	170	mg/kg	0.5	<0.5	-	<0.5	-	<0.5	-
PAHs	Acenaphthylene						mg/kg	0.5	<0.5	-	<0.5	-	<0.5	-
	Acenaphthene						mg/kg	0.5	<0.5	-	<0.5	-	<0.5	-
	Fluorene						mg/kg	0.5	<0.5	-	<0.5	-	<0.5	-
	Phenanthrene						mg/kg	0.5	<0.5	-	<0.5	-	<0.5	-
	Anthracene						mg/kg	0.5	<0.5	-	<0.5	-	<0.5	-
	Fluoranthene						mg/kg	0.5	<0.5	-	<0.5	-	<0.5	-
	Pyrene						mg/kg	0.5	<0.5	-	<0.5	-	<0.5	-
	Benzo(a)anthracene						mg/kg	0.5	<0.5	-	<0.5	-	<0.5	-
	Chrysene						mg/kg	0.5	<0.5	-	<0.5	-	<0.5	-
	Benzo(b&j)fluoranthene						mg/kg	0.5	<0.5	-	<0.5	-	<0.5	-
	Benzo(k)fluoranthene						mg/kg	0.5	<0.5	-	<0.5	-	<0.5	-
	Benzo(a)pyrene	3				0.7	mg/kg	0.5	<0.5	-	<0.5	-	<0.5	-
	Indeno(1,2,3-cd)pyrene						mg/kg	0.5	<0.5	-	<0.5	-	<0.5	-
	Dibenz(a,h)anthracene						mg/kg	0.5	<0.5	-	<0.5	-	<0.5	-
	Benzo(g,h,i)perylene						mg/kg	0.5	<0.5	-	<0.5	-	<0.5	-
	Total PAH*	300					mg/kg	1	<0.5	-	<0.5	-	<0.5	-
	Benzo(a)pyrene TEQ (lower bound) *	3					mg/kg	0.5	<0.5	-	<0.5	-	<0.5	-
	Benzo(a)pyrene TEQ (medium bound) *	3					mg/kg	0.5	0.6	-	0.6	-	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	3					mg/kg	0.5	1.2	-	1.2	-	1.2	-	
Phenols	Phenol	3000					mg/kg	0.5	-	-	-	-	-	-
	2-Chlorophenol						mg/kg	0.5	-	-	-	-	-	-
	2-Methylphenol (o-Cresol)						mg/kg	0.5	-	-	-	-	-	-
	2-Nitrophenol						mg/kg	0.5	-	-	-	-	-	-
	2,4-Dimethylphenol						mg/kg	0.5	-	-	-	-	-	-
	2,4-Dichlorophenol						mg/kg	0.5	-	-	-	-	-	-
	2,6-Dichlorophenol						mg/kg	0.5	-	-	-	-	-	-
	4-Chloro-3-methylphenol						mg/kg	0.5	-	-	-	-	-	-
	2,4,6-Trichlorophenol						mg/kg	0.5	-	-	-	-	-	-
	2,4,5-Trichlorophenol						mg/kg	0.5	-	-	-	-	-	-
	Pentachlorophenol	100					mg/kg	2	-	-	-	-	-	-

**Table 1 - Soil Analytical Results**  
**JN26714**  
**1686 Channel Highway**

Parameter Suite	Analyte Name	NEPM ASC (2013) HIL-A <sup>1</sup>	NEPM ASC (2013) Vapour Intrusion <sup>2</sup> HSL-A & HSL-B	CRC Care (2011) Vapour Intrusion <sup>6</sup> IMW shallow trench SAND 0 to <1 m / 0 to <2 m	NEPM ASC (2013) Direct Contact <sup>5</sup> HSL-A	NEPM ASC (2013) ESL & EIL Urban Residential & Public Open Space <sup>3</sup>	Sample ID	TP01_0-0.1	QC01	TP01_0.4-0.5	TP01_0.9-1.0	TP02_0-0.1	TP02_0.5-0.6	TP02_0.9-1.0	TP03_0-0.1	
			SAND 0 to <1 m /			COARSE	Date	4/02/2026	4/02/2026	4/02/2026	4/02/2026	4/02/2026	4/02/2026	4/02/2026	4/02/2026	
							Units	LOR								
OCPs	alpha-BHC (HCH)						mg/kg	0.05	<0.05	-	-	-	<0.05	-	-	<0.05
	Hexachlorobenzene (HCB)	10					mg/kg	0.05	<0.05	-	-	-	<0.05	-	-	<0.05
	beta-BHC (HCH)						mg/kg	0.05	<0.05	-	-	-	<0.05	-	-	<0.05
	delta-BHC (HCH)						mg/kg	0.05	<0.05	-	-	-	<0.05	-	-	<0.05
	Heptachlor	6					mg/kg	0.05	<0.05	-	-	-	<0.05	-	-	<0.05
	Aldrin	6					mg/kg	0.05	<0.05	-	-	-	<0.05	-	-	<0.05
	Heptachlor epoxide						mg/kg	0.05	<0.05	-	-	-	<0.05	-	-	<0.05
	Endosulfan I						mg/kg	0.05	<0.05	-	-	-	<0.05	-	-	<0.05
	Endosulfan II						mg/kg	0.05	<0.05	-	-	-	<0.05	-	-	<0.05
	Endosulfan sulphate						mg/kg	0.05	<0.05	-	-	-	<0.05	-	-	<0.05
	Dieldrin	6					mg/kg	0.05	<0.05	-	-	-	<0.05	-	-	<0.05
	Endrin	10					mg/kg	0.05	<0.05	-	-	-	<0.05	-	-	<0.05
	Endrin aldehyde						mg/kg	0.05	<0.05	-	-	-	<0.05	-	-	<0.05
	Endosulfan sulfate						mg/kg	0.05	<0.05	-	-	-	<0.05	-	-	<0.05
	Endrin ketone						mg/kg	0.05	<0.05	-	-	-	<0.05	-	-	<0.05
	Methoxychlor	300					mg/kg	0.2	<0.2	-	-	-	<0.2	-	-	<0.2
	4,4'-DDD						mg/kg	0.05	<0.05	-	-	-	<0.05	-	-	<0.05
	4,4'-DDE						mg/kg	0.05	<0.05	-	-	-	<0.05	-	-	<0.05
	4,4'-DDT						mg/kg	0.2	<0.2	-	-	-	<0.2	-	-	<0.2
DDT + DDE + DDD (Total)*	240					mg/kg	0	<0.05	-	-	-	<0.05	-	-	<0.05	
Aldrin and Dieldrin (Total)*	6					mg/kg	0.05	<0.05	-	-	-	<0.05	-	-	<0.05	
OPPs	Dichlorvos						mg/kg	0.05	<0.05	-	-	-	<0.05	-	-	<0.05
	Dimethoate						mg/kg	0.05	<0.05	-	-	-	<0.05	-	-	<0.05
	Diazinon						mg/kg	0.05	<0.05	-	-	-	<0.05	-	-	<0.05
	Chlorpyrifos-methyl						mg/kg	0.05	<0.05	-	-	-	<0.05	-	-	<0.05
	Malathion						mg/kg	0.05	<0.05	-	-	-	<0.05	-	-	<0.05
	Fenthion						mg/kg	0.05	<0.05	-	-	-	<0.05	-	-	<0.05
	Chlorpyrifos	160					mg/kg	0.05	<0.05	-	-	-	<0.05	-	-	<0.05
	Pirimphos-ethyl						mg/kg	0.05	<0.05	-	-	-	<0.05	-	-	<0.05
	Chlorfenvinphos						mg/kg	0.05	<0.05	-	-	-	<0.05	-	-	<0.05
	Prothiofos						mg/kg	0.05	<0.05	-	-	-	<0.05	-	-	<0.05
Ethion						mg/kg	0.05	<0.05	-	-	-	<0.05	-	-	<0.05	
Asbestos in Soils	Asbestos Detected						-	-	No	-	-	-	No	-	-	No
	Synthetic Mineral Fibre						-	-	0	-	-	-	0	-	-	0
	Organic Fibre detected						-	-	No	-	-	-	Yes	-	-	Yes

**Abbreviation Notes**

- 1 Refer Table 1A (1) Health investigation levels (HIL) for Residential A, Residential B, Recreational C, Commercial/Industrial D soil contaminants in NEPM 1999 Schedule B1 (as amended 2013)
- 2 Refer Table 1A (3) Soil HSLs for vapour intrusion (mg/kg) in NEPM 1999 Schedule B1 (as amended 2013), Low-High Residential A/B, Commercial/Industrial D, Sand
- 3 Refer Table 1B (5) - (6) Soil ESLs and EILs (mg/kg) for Commercial/Industrial in NEPM 1999 Schedule B1 (as amended 2013), Coarse Soils
- 5 Refer Table B4 Soil HSLs for Direct Contact (mg/kg) in CRC Care Technical Report No. 10 (Part 2), September 2011
- 6 Refer Table B3 Soil HSLs for Vapour Intrusion - Intrusive Maintenance Worker (Shallow Trench) (mg/kg) in CRC Care Technical Report No. 10 (Part 2), September 2011
- \* Ecological direct exposure - all land uses
- \*\* Ecological indirect exposure - all land uses
- LOR Limit of Reporting
- NL Non-limiting

**Table 1 - Soil Analytical Results**  
**JN26714**  
**1686 Channel Highway**

Parameter Suite	Analyte Name	NEPM ASC (2013) HIL-A <sup>1</sup>	NEPM ASC (2013) Vapour Intrusion <sup>2</sup> HSL-A & HSL-B	CRC Care (2011) Vapour Intrusion <sup>6</sup> IMW shallow trench SAND 0 to <2 m	NEPM ASC (2013) Direct Contact <sup>5</sup> HSL-A	NEPM ASC (2013) ESL & EIL Urban Residential & Public Open Space <sup>3</sup>	Sample ID	TP03_0.4-0.5	TP03_0.9-1.0	TP04_0-0.1	TP04_0.4-0.5	TP04_0.9-1.0	TP05_0-0.1	TP05_0.2-0.3	TP05_0.4-0.5
			SAND 0 to <1 m /			COARSE	Date	4/02/2026	4/02/2026	4/02/2026	4/02/2026	4/02/2026	4/02/2026	4/02/2026	4/02/2026
							Units	LOR							
OCPs	alpha-BHC (HCH)						mg/kg	0.05	-	-	-	-	-	-	-
	Hexachlorobenzene (HCB)	10					mg/kg	0.05	-	-	-	-	-	-	-
	beta-BHC (HCH)						mg/kg	0.05	-	-	-	-	-	-	-
	delta-BHC (HCH)						mg/kg	0.05	-	-	-	-	-	-	-
	Heptachlor	6					mg/kg	0.05	-	-	-	-	-	-	-
	Aldrin	6					mg/kg	0.05	-	-	-	-	-	-	-
	Heptachlor epoxide						mg/kg	0.05	-	-	-	-	-	-	-
	Endosulfan I						mg/kg	0.05	-	-	-	-	-	-	-
	Endosulfan II						mg/kg	0.05	-	-	-	-	-	-	-
	Endosulfan sulphate						mg/kg	0.05	-	-	-	-	-	-	-
	Dieldrin	6					mg/kg	0.05	-	-	-	-	-	-	-
	Endrin	10					mg/kg	0.05	-	-	-	-	-	-	-
	Endrin aldehyde						mg/kg	0.05	-	-	-	-	-	-	-
	Endosulfan sulfate						mg/kg	0.05	-	-	-	-	-	-	-
	Endrin ketone						mg/kg	0.05	-	-	-	-	-	-	-
	Methoxychlor	300					mg/kg	0.2	-	-	-	-	-	-	-
	4,4'-DDD						mg/kg	0.05	-	-	-	-	-	-	-
4,4'-DDE						mg/kg	0.05	-	-	-	-	-	-	-	
4,4'-DDT					180	mg/kg	0.2	-	-	-	-	-	-	-	
DDT + DDE + DDD (Total)*	240					mg/kg	0	-	-	-	-	-	-	-	
Aldrin and Dieldrin (Total)*	6					mg/kg	0.05	-	-	-	-	-	-	-	
OPPs	Dichlorvos						mg/kg	0.05	-	-	-	-	-	-	-
	Dimethoate						mg/kg	0.05	-	-	-	-	-	-	-
	Diazinon						mg/kg	0.05	-	-	-	-	-	-	-
	Chlorpyrifos-methyl						mg/kg	0.05	-	-	-	-	-	-	-
	Malathion						mg/kg	0.05	-	-	-	-	-	-	-
	Fenthion						mg/kg	0.05	-	-	-	-	-	-	-
	Chlorpyrifos	160					mg/kg	0.05	-	-	-	-	-	-	-
	Pirimphos-ethyl						mg/kg	0.05	-	-	-	-	-	-	-
	Chlorfenvinphos						mg/kg	0.05	-	-	-	-	-	-	-
	Prothiofos						mg/kg	0.05	-	-	-	-	-	-	-
Ethion						mg/kg	0.05	-	-	-	-	-	-	-	
Asbestos in Soils	Asbestos Detected						-	-	-	No	-	-	No	-	-
	Synthetic Mineral Fibre						-	-	-	0	-	-	0	-	-
	Organic Fibre detected						-	-	-	Yes	-	-	Yes	-	-

**Abbreviation Notes**

- 1 Refer Table 1A (1) Health investigation levels (HIL) for Residential A, Residential B, Recreational C, Commercial/Industrial D soil contaminants in NEPM 1999 Schedule B
- 2 Refer Table 1A (3) Soil HSLs for vapour intrusion (mg/kg) in NEPM 1999 Schedule B1 (as amended 2013), Low-High Residential A/B, Commercial/Industrial D, Sand
- 3 Refer Table 1B (5) - (6) Soil ESLs and EILs (mg/kg) for Commercial/Industrial in NEPM 1999 Schedule B1 (as amended 2013), Coarse Soils
- 5 Refer Table B4 Soil HSLs for Direct Contact (mg/kg) in CRC Care Technical Report No. 10 (Part 2), September 2011
- 6 Refer Table B3 Soil HSLs for Vapour Intrusion - Intrusive Maintenance Worker (Shallow Trench) (mg/kg) in CRC Care Technical Report No. 10 (Part 2), September 2011
- \* Ecological direct exposure - all land uses
- \*\* Ecological indirect exposure - all land uses
- LOR Limit of Reporting
- NL Non-limiting

**Table 2 - Soil IB105 Waste Classification**  
**JN26714**  
**1686 Channel**  
**Highway**

		Waste Classification Guidelines (IB105)			Field ID		TP01_0-0.1	QC01	TP01_0.4-0.5	TP01_0.9-1.0	TP02_0-0.1	TP02_0.5-0.6	TP02_0.9-1.0	TP03_0-0.1
		FILL MATERIAL Level 1	LOW LEVEL CONTAMINATED SOIL Level 2	CONTAMINATED SOIL Level 3	Date		4/02/2026	4/02/2026	4/02/2026	4/02/2026	4/02/2026	4/02/2026	4/02/2026	4/02/2026
Parameter Suite	Analyte Name				Unit	LOR								
<b>Total Metals</b>	Arsenic	20	200	750	mg/kg	5	<5	<5	<5	<5	<5	<5	<5	<5
	Barium	300	3,000	30,000	mg/kg	10	20	-	-	20	30	-	20	30
	Beryllium	2	40	400	mg/kg	1	<1	-	-	<1	-	-	<1	<1
	Cadmium	3	40	400	mg/kg	1	<1	<1	<1	<1	<1	<1	<1	<1
	Chromium	50	500	5,000	mg/kg	2	5	5	3	27	8	41	35	6
	Chromium (hexavalent)	1	200	2,000	mg/kg	0.5	<0.5	-	-	-	<0.5	-	-	<0.5
	Cobalt	100	200	1,000	mg/kg	2	7	-	-	<2	9	-	3	7
	Copper	100	2,000	7,500	mg/kg	5	63	66	<5	<5	69	9	7	55
	Lead	300	1,200	3,000	mg/kg	5	6	11	<5	8	38	13	12	19
	Manganese	500	5,000	25,000	mg/kg	5	115	-	-	<5	187	-	<5	140
	Mercury	1	30	110	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Nickel	60	600	3,000	mg/kg	2	16	15	<2	3	17	6	5	13
	Selenium	10	50	200	mg/kg	5	<5	-	-	<5	<5	-	<5	<5
	Zinc	200	14,000	50,000	mg/kg	5	25	36	<5	<5	116	11	8	48
	<b>PCB</b>	Total PCB*	2	20	50	mg/kg	0.1	<0.1	-	-	-	<0.1	-	-
<b>Total Petroleum Hydrocarbons</b>	TRH C6-C9	65	650	1000	mg/kg	10	<10	<10	<10	-	<10	<10	-	<10
	TRH C10-C14				mg/kg	50	<50	<50	<50	-	<50	<50	-	<50
	TRH C15-C28				mg/kg	100	<100	<100	<100	-	<100	<100	-	<100
	TRH C29-C36				mg/kg	100	<100	<100	<100	-	<100	<100	-	<100
	TRH C10-C36 (Total)	1000	5000	10000	mg/kg	50	<50	<50	<50	-	<50	<50	-	<50
<b>Total Recoverable Hydrocarbons - NEPM 2013 Fractions</b>	TRH C6-C10				mg/kg	10	<10	<10	<10	-	<10	<10	-	<10
	TRH C6-C10 less BTEX (F1)				mg/kg	10	<10	<10	<10	-	<10	<10	-	<10
	TRH >C10-C16				mg/kg	50	<50	<50	<50	-	<50	<50	-	<50
	TRH >C16-C34				mg/kg	100	<100	<100	<100	-	<100	<100	-	<100
	TRH >C34-C40				mg/kg	100	<100	<100	<100	-	<100	<100	-	<100
	TRH >C10-C40 (total)*				mg/kg	50	<50	<50	<50	-	<50	<50	-	<50
	TRH >C10-C16 less Naphthalene (F2)				mg/kg	50	<50	<50	<50	-	<50	<50	-	<50
<b>BTEXN</b>	Benzene	1	5	50	mg/kg	0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	-	<0.2
	Toluene	1	100	1000	mg/kg	0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	-	<0.5
	Ethylbenzene	3	100	1080	mg/kg	0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	-	<0.5
	m&p-Xylenes				mg/kg	0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	-	<0.5
	o-Xylene				mg/kg	0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	-	<0.5
	Xylenes - Total*	14	180	1800	mg/kg	0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	-	<0.5
	Naphthalene				mg/kg	0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	-	<0.5
					mg/kg	0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	-	<0.5
<b>Polynuclear Aromatic Hydrocarbons</b>	Naphthalene				mg/kg	0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	-	<0.5
	Acenaphthylene				mg/kg	0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	-	<0.5
	Acenaphthene				mg/kg	0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	-	<0.5
	Fluorene				mg/kg	0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	-	<0.5
	Phenanthrene				mg/kg	0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	-	<0.5
	Anthracene				mg/kg	0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	-	<0.5
	Fluoranthene				mg/kg	0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	-	<0.5
	Pyrene				mg/kg	0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	-	<0.5
	Benz(a)anthracene				mg/kg	0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	-	<0.5
	Chrysene				mg/kg	0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	-	<0.5
	Benzo(b&j)fluoranthene				mg/kg	0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	-	<0.5
	Benzo(k)fluoranthene				mg/kg	0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	-	<0.5
	Benzo(a)pyrene	0.08	2	20	mg/kg	0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	-	<0.5
	Benzo(a)pyrene - low level	0.08	2	20	mg/kg	0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	-	<0.5
	Indeno(1,2,3-cd)pyrene				mg/kg	0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	-	<0.5
	Dibenz(a,h)anthracene				mg/kg	0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	-	<0.5
	Benzo(g,h,i)perylene				mg/kg	0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	-	<0.5
	Total PAH*	20	40	200	mg/kg	0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	-	<0.5
	Benzo(a)pyrene TEQ (lower bound) *				mg/kg	0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	-	<0.5
	Benzo(a)pyrene TEQ (medium bound) *				mg/kg	0.5	0.6	0.6	0.6	-	0.6	0.6	-	0.6
Benzo(a)pyrene TEQ (upper bound) *				mg/kg	0.5	1.2	1.2	1.2	-	1.2	1.2	-	1.2	

**Table 2 - Soil IB105 Waste Classification**  
**JN26714**  
**1686 Channel**  
**Highway**

		Waste Classification Guidelines (IB105)			Field ID		TP03_0.4-0.5	TP03_0.9-1.0	TP04_0-0.1	TP04_0.4-0.5	TP04_0.9-1.0	TP05_0-0.1	TP05_0.2-0.3	TP05_0.4-0.5	
		FILL MATERIAL Level 1	LOW LEVEL CONTAMINATED SOIL Level 2	CONTAMINATED SOIL Level 3	Date		4/02/2026	4/02/2026	4/02/2026	4/02/2026	4/02/2026	4/02/2026	4/02/2026	4/02/2026	
Parameter Suite	Analyte Name				Unit	LOR									
<b>Total Metals</b>	Arsenic	20	200	750	mg/kg	5	<5	<5	<5	<5	<5	<5	<5	<5	
	Barium	300	3,000	30,000	mg/kg	10	-	10	-	-	10	-	-	<10	
	Beryllium	2	40	400	mg/kg	1	-	<1	-	-	<1	-	-	<1	
	Cadmium	3	40	400	mg/kg	1	<1	<1	<1	<1	<1	<1	<1	<1	
	Chromium	50	500	5,000	mg/kg	2	12	27	3	27	21	3	2	6	
	Chromium (hexavalent)	1	200	2,000	mg/kg	0.5	-	-	-	-	-	-	-	-	
	Cobalt	100	200	1,000	mg/kg	2	-	<2	-	-	<2	-	-	<2	
	Copper	100	2,000	7,500	mg/kg	5	<5	6	12	<5	<5	65	<5	<5	
	Lead	300	1,200	3,000	mg/kg	5	<5	8	34	8	7	6	50	<5	
	Manganese	500	5,000	25,000	mg/kg	5	-	<5	-	-	<5	-	-	<5	
	Mercury	1	30	110	mg/kg	0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	0.1	<0.1	
	Nickel	60	600	3,000	mg/kg	2	<2	4	<2	3	3	14	<2	2	
	Selenium	10	50	200	mg/kg	5	-	<5	-	-	<5	-	-	<5	
	Zinc	200	14,000	50,000	mg/kg	5	5	7	59	11	<5	21	10	<5	
	<b>PCB</b>	Total PCB*	2	20	50	mg/kg	0.1	-	-	-	-	-	-	-	-
<b>Total Petroleum Hydrocarbons</b>	TRH C6-C9	65	650	1000	mg/kg	10	<10	-	<10	<10	-	<10	<10	-	
	TRH C10-C14				mg/kg	50	<50	-	<50	-	<50	<50	<50	-	
	TRH C15-C28				mg/kg	100	<100	-	<100	<100	-	<100	<100	-	
	TRH C29-C36				mg/kg	100	<100	-	<100	<100	-	<100	<100	-	
	TRH C10-C36 (Total)	1000	5000	10000	mg/kg	50	<50	-	<50	<50	-	<50	<50	-	
<b>Total Recoverable Hydrocarbons - NEPM 2013 Fractions</b>	TRH C6-C10				mg/kg	10	<10	-	<10	-	<10	<10	<10	-	
	TRH C6-C10 less BTEX (F1)				mg/kg	10	<10	-	<10	-	<10	<10	<10	-	
	TRH >C10-C16				mg/kg	50	<50	-	<50	-	<50	<50	<50	-	
	TRH >C16-C34				mg/kg	100	<100	-	<100	<100	-	<100	<100	-	
	TRH >C34-C40				mg/kg	100	<100	-	<100	<100	-	<100	<100	-	
	TRH >C10-C40 (total)*				mg/kg	50	<50	-	<50	<50	-	<50	<50	-	
	TRH >C10-C16 less Naphthalene (F2)				mg/kg	50	<50	-	<50	<50	-	<50	<50	-	
<b>BTEXN</b>	Benzene	1	5	50	mg/kg	0.2	<0.2	-	<0.2	-	<0.2	<0.2	<0.2	-	
	Toluene	1	100	1000	mg/kg	0.5	<0.5	-	<0.5	-	<0.5	<0.5	<0.5	-	
	Ethylbenzene	3	100	1080	mg/kg	0.5	<0.5	-	<0.5	-	<0.5	<0.5	<0.5	-	
	m&p-Xylenes				mg/kg	0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	
	o-Xylene				mg/kg	0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	
	Xylenes - Total*	14	180	1800	mg/kg	0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	
	Naphthalene				mg/kg	0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	
<b>Polynuclear Aromatic Hydrocarbons</b>	Naphthalene				mg/kg	0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	
	Acenaphthylene				mg/kg	0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	
	Acenaphthene				mg/kg	0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	
	Fluorene				mg/kg	0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	
	Phenanthrene				mg/kg	0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	
	Anthracene				mg/kg	0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	
	Fluoranthene				mg/kg	0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	
	Pyrene				mg/kg	0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	
	Benz(a)anthracene				mg/kg	0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	
	Chrysene				mg/kg	0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	
	Benzo(b&j)fluoranthene				mg/kg	0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	
	Benzo(k)fluoranthene				mg/kg	0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	
	Benzo(a)pyrene	0.08	2	20	mg/kg	0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	
	Benzo(a)pyrene - low level	0.08	2	20	mg/kg	0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	
	Indeno(1,2,3-cd)pyrene				mg/kg	0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	
	Dibenzo(a,h)anthracene				mg/kg	0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	
	Benzo(g,h,i)perylene				mg/kg	0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	
	Total PAH*	20	40	200	mg/kg	0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	
	Benzo(a)pyrene TEQ (lower bound) *				mg/kg	0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	-
	Benzo(a)pyrene TEQ (medium bound) *				mg/kg	0.5	0.6	-	0.6	0.6	-	0.6	0.6	0.6	-
Benzo(a)pyrene TEQ (upper bound) *				mg/kg	0.5	1.2	-	1.2	1.2	-	1.2	1.2	1.2	-	

**Table 2 - Soil IB105 Waste Classification**  
**JN26714**  
**1686 Channel**  
**Highway**

		Waste Classification Guidelines (IB105)			Field ID		TP05_0.9-1.0	BH01_0-0.1	BH01_0.1-0.2	BH02_0-0.1	BH02_0.1-0.2	BH03_0-0.1	BH03_0.1-0.2
		FILL MATERIAL Level 1	LOW LEVEL CONTAMINATED SOIL Level 2	CONTAMINATED SOIL Level 3	Date		4/02/2026	4/02/2026	4/02/2026	4/02/2026	4/02/2026	4/02/2026	4/02/2026
Parameter Suite	Analyte Name				Unit	LOR							
<b>Total Metals</b>	Arsenic	20	200	750	mg/kg	5	<5	<5	<5	<5	<5	<5	<5
	Barium	300	3,000	30,000	mg/kg	10	10	-	20	-	40	-	30
	Beryllium	2	40	400	mg/kg	1	<1	-	<1	-	<1	-	<1
	Cadmium	3	40	400	mg/kg	1	<1	<1	<1	<1	<1	<1	<1
	Chromium	50	500	5,000	mg/kg	2	19	4	4	7	7	8	6
	Chromium (hexavalent)	1	200	2,000	mg/kg	0.5	-	-	-	-	-	-	-
	Cobalt	100	200	1,000	mg/kg	2	<2	-	<2	-	<2	-	<2
	Copper	100	2,000	7,500	mg/kg	5	<5	<5	<5	25	13	8	6
	Lead	300	1,200	3,000	mg/kg	5	6	20	17	73	40	37	32
	Manganese	500	5,000	25,000	mg/kg	5	<5	-	11	-	109	-	82
	Mercury	1	30	110	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	0.1
	Nickel	60	600	3,000	mg/kg	2	3	<2	<2	3	3	3	2
	Selenium	10	50	200	mg/kg	5	<5	-	<5	-	<5	-	<5
	Zinc	200	14,000	50,000	mg/kg	5	<5	20	17	110	58	55	41
<b>PCB</b>	Total PCB*	2	20	50	mg/kg	0.1	-	-	-	-	-	-	-
<b>Total Petroleum Hydrocarbons</b>	TRH C6-C9	65	650	1000	mg/kg	10	-	<10	-	<10	-	<10	-
	TRH C10-C14				mg/kg	50	-	<50	-	<50	-	<50	-
	TRH C15-C28				mg/kg	100	-	<100	-	<100	-	<100	-
	TRH C29-C36				mg/kg	100	-	<100	-	<100	-	<100	-
	TRH C10-C36 (Total)	1000	5000	10000	mg/kg	50	-	<50	-	<50	-	<50	-
<b>Total Recoverable Hydrocarbons - NEPM 2013 Fractions</b>	TRH C6-C10				mg/kg	10	-	<10	-	<10	-	<10	-
	TRH C6-C10 less BTEX (F1)				mg/kg	10	-	<10	-	<10	-	<10	-
	TRH >C10-C16				mg/kg	50	-	<50	-	<50	-	<50	-
	TRH >C16-C34				mg/kg	100	-	<100	-	<100	-	<100	-
	TRH >C34-C40				mg/kg	100	-	<100	-	<100	-	<100	-
	TRH >C10-C40 (total)*				mg/kg	50	-	<50	-	<50	-	<50	-
	TRH >C10-C16 less Naphthalene (F2)				mg/kg	50	-	<50	-	<50	-	<50	-
<b>BTEXN</b>	Benzene	1	5	50	mg/kg	0.2	-	<0.2	-	<0.2	-	<0.2	-
	Toluene	1	100	1000	mg/kg	0.5	-	<0.5	-	<0.5	-	<0.5	-
	Ethylbenzene	3	100	1080	mg/kg	0.5	-	<0.5	-	<0.5	-	<0.5	-
	m&p-Xylenes				mg/kg	0.5	-	<0.5	-	<0.5	-	<0.5	-
	o-Xylene				mg/kg	0.5	-	<0.5	-	<0.5	-	<0.5	-
	Xylenes - Total*	14	180	1800	mg/kg	0.5	-	<0.5	-	<0.5	-	<0.5	-
	Naphthalene				mg/kg	0.5	-	<0.5	-	<0.5	-	<0.5	-
					mg/kg	0.5	-	<0.5	-	<0.5	-	<0.5	-
<b>Polynuclear Aromatic Hydrocarbons</b>	Naphthalene				mg/kg	0.5	-	<0.5	-	<0.5	-	<0.5	-
	Acenaphthylene				mg/kg	0.5	-	<0.5	-	<0.5	-	<0.5	-
	Acenaphthene				mg/kg	0.5	-	<0.5	-	<0.5	-	<0.5	-
	Fluorene				mg/kg	0.5	-	<0.5	-	<0.5	-	<0.5	-
	Phenanthrene				mg/kg	0.5	-	<0.5	-	<0.5	-	<0.5	-
	Anthracene				mg/kg	0.5	-	<0.5	-	<0.5	-	<0.5	-
	Fluoranthene				mg/kg	0.5	-	<0.5	-	<0.5	-	<0.5	-
	Pyrene				mg/kg	0.5	-	<0.5	-	<0.5	-	<0.5	-
	Benz(a)anthracene				mg/kg	0.5	-	<0.5	-	<0.5	-	<0.5	-
	Chrysene				mg/kg	0.5	-	<0.5	-	<0.5	-	<0.5	-
	Benzo(b&j)fluoranthene				mg/kg	0.5	-	<0.5	-	<0.5	-	<0.5	-
	Benzo(k)fluoranthene				mg/kg	0.5	-	<0.5	-	<0.5	-	<0.5	-
	Benzo(a)pyrene	0.08	2	20	mg/kg	0.5	-	<0.5	-	<0.5	-	<0.5	-
	Benzo(a)pyrene - low level	0.08	2	20	mg/kg	0.5	-	<0.5	-	<0.5	-	<0.5	-
	Indeno(1,2,3-cd)pyrene				mg/kg	0.5	-	<0.5	-	<0.5	-	<0.5	-
	Dibenz(a,h)anthracene				mg/kg	0.5	-	<0.5	-	<0.5	-	<0.5	-
	Benzo(g,h,i)perylene				mg/kg	0.5	-	<0.5	-	<0.5	-	<0.5	-
	Total PAH*	20	40	200	mg/kg	0.5	-	<0.5	-	<0.5	-	<0.5	-
	Benzo(a)pyrene TEQ (lower bound) *				mg/kg	0.5	-	<0.5	-	<0.5	-	<0.5	-
	Benzo(a)pyrene TEQ (medium bound) *				mg/kg	0.5	-	0.6	-	0.6	-	0.6	-
Benzo(a)pyrene TEQ (upper bound) *				mg/kg	0.5	-	1.2	-	1.2	-	1.2	-	

**Table 2 - Soil IB105 Waste Classification**  
**JN26714**  
**1686 Channel**  
**Highway**

		Waste Classification Guidelines (IB105)			Field ID	TP01_0-0.1	QC01	TP01_0.4-0.5	TP01_0.9-1.0	TP02_0-0.1	TP02_0.5-0.6	TP02_0.9-1.0	TP03_0-0.1	
		FILL MATERIAL Level 1	LOW LEVEL CONTAMINATED SOIL Level 2	CONTAMINATED SOIL Level 3	Date	4/02/2026	4/02/2026	4/02/2026	4/02/2026	4/02/2026	4/02/2026	4/02/2026	4/02/2026	
Parameter Suite	Analyte Name				Unit	LOR								
Organochlorine	alpha-BHC (HCH)				mg/kg	0.05	<0.05	-	-	<0.05	-	-	<0.05	
Pesticides (OC)	Hexachlorobenzene (HCB)				mg/kg	0.05	<0.05	-	-	<0.05	-	-	<0.05	
	beta-BHC (HCH)				mg/kg	0.05	<0.05	-	-	<0.05	-	-	<0.05	
	delta-BHC (HCH)				mg/kg	0.05	<0.05	-	-	<0.05	-	-	<0.05	
	Heptachlor				mg/kg	0.05	<0.05	-	-	<0.05	-	-	<0.05	
	Aldrin				mg/kg	0.05	<0.05	-	-	<0.05	-	-	<0.05	
	Heptachlor epoxide				mg/kg	0.05	<0.05	-	-	<0.05	-	-	<0.05	
	Endosulfan II				mg/kg	0.05	<0.05	-	-	<0.05	-	-	<0.05	
	Endosulfan I				mg/kg	0.05	<0.05	-	-	<0.05	-	-	<0.05	
	Endosulfan sulphate				mg/kg	0.05	<0.05	-	-	<0.05	-	-	<0.05	
	Dieldrin				mg/kg	0.05	<0.05	-	-	<0.05	-	-	<0.05	
	Endrin				mg/kg	0.05	<0.05	-	-	<0.05	-	-	<0.05	
	Endrin aldehyde				mg/kg	0.05	<0.05	-	-	<0.05	-	-	<0.05	
	Endosulfan sulfate				mg/kg	0.05	<0.05	-	-	<0.05	-	-	<0.05	
	Endrin ketone				mg/kg	0.05	<0.05	-	-	<0.05	-	-	<0.05	
	Methoxychlor				mg/kg	0.2	<0.2	-	-	<0.2	-	-	<0.2	
	4,4'-DDD				mg/kg	0.05	<0.05	-	-	<0.05	-	-	<0.05	
	4,4'-DDE				mg/kg	0.05	<0.05	-	-	<0.05	-	-	<0.05	
	4,4'-DDT				mg/kg	0.2	<0.2	-	-	<0.2	-	-	<0.2	
	DDT + DDE + DDD (Total)*		2	200	1000	mg/kg	0.05	<0.05	-	-	<0.05	-	-	<0.05
	Aldrin and Dieldrin (Total)*		2	20	50	mg/kg	0.05	<0.05	-	-	<0.05	-	-	<0.05
Phenolic Compounds	Phenol	25	500	2000	mg/kg	0.5	<0.5	-	-	<0.5	-	-	<0.5	
	2-Chlorophenol				mg/kg	0.5	<0.5	-	-	<0.5	-	-	<0.5	
	2-Methylphenol (o-Cresol)				mg/kg	0.5	<0.5	-	-	<0.5	-	-	<0.5	
	3&4-Methylphenol (m&p-Cresol)				-	-	-	-	-	-	-	-	-	
	2-Nitrophenol				mg/kg	0.5	<0.5	-	-	<0.5	-	-	<0.5	
	2,4-Dimethylphenol				mg/kg	0.5	<0.5	-	-	<0.5	-	-	<0.5	
	2,4-Dichlorophenol				mg/kg	0.5	<0.5	-	-	<0.5	-	-	<0.5	
	2,6-Dichlorophenol				mg/kg	0.5	<0.5	-	-	<0.5	-	-	<0.5	
	4-Chloro-3-methylphenol				mg/kg	0.5	<0.5	-	-	<0.5	-	-	<0.5	
	2,4,6-Trichlorophenol				mg/kg	0.5	<0.5	-	-	<0.5	-	-	<0.5	
	2,4,5-Trichlorophenol				mg/kg	0.5	<0.5	-	-	<0.5	-	-	<0.5	
	Pentachlorophenol				mg/kg	2	<2	-	-	<2	-	-	<2	

**Shading denotes waste classification level**

- 1- EPA Information Bulletin 105 - Maximum thresholds for solid waste classification
  - 2- EPA Information Bulletin 105 - Maximum thresholds for (TCLP) leachable concentration waste classification
- LOR Limit of Reporting

Tested Analytes Not Shown Above

**Table 3 - Soil PFAS Results**  
**JN26714**  
**1686 Channel Highway**

Parameter Suite	Analyte Name	HEPA (2025) <sup>1</sup> HIL-A	HEPA (2025) Ecological Direct Exposure - All Land Uses	HEPA (2025) Ecological Indirect Exposure (Interim) - All Land Uses	NEMP 2.0 <sup>2</sup> Landfill Acceptance Criteria  Unlined  mg/kg	NEMP 2.0 <sup>2</sup> Landfill Acceptance Criteria  Clay/Single Composite Lined mg/kg	NEMP 3.0 <sup>2</sup> Landfill Acceptance Criteria  Double Composite Lined  mg/kg	Field ID	BH01_0-0.1	BH03_0-0.1	TP01_0-0.1	TP02_0-0.1	TP03_0-0.1	
								Sample Date	4/02/2026	4/02/2026	4/02/2026	4/02/2026	4/02/2026	
								Units	LOR					
Per- and polyfluoroalkyl substances	Perfluorobutanesulfonic acid (PFBS)							mg/kg	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	Perfluorohexanesulfonic acid (PFHxS)	0.003						mg/kg	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	Perfluorooctanesulfonic acid (PFOS)	0.003	1	0.003				mg/kg	0.0002	<0.0002	0.0006	0.0002	<0.0002	<0.0002
	Perfluorobutanoic acid (PFBA)							mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Perfluoropentanoic acid (PFPeA)							mg/kg	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	Perfluorohexanoic acid (PFHxA)							mg/kg	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	Perfluoroheptanoic acid (PFHpA)							mg/kg	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	Perfluorooctanoic acid (PFOA)	0.06	10	0.003	50	50	50	mg/kg	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	4:2 Fluorotelomer sulfonic acid (4:2 FTS)							mg/kg	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	6:2 Fluorotelomer sulfonic acid (6:2 FTS)							mg/kg	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	8:2 Fluorotelomer sulfonic acid (8:2 FTS)							mg/kg	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	10:2 Fluorotelomer sulfonic acid (10:2 FTS)							mg/kg	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	Sum (PFHxS + PFOS)*	0.003			20	50	50	mg/kg	0.0002	<0.0002	0.0006	0.0002	<0.0002	<0.0002
	Sum of WA DWER PFAS (n=10)*							mg/kg	0.0002	<0.0002	0.0006	0.0002	<0.0002	<0.0002


**Abbreviation Notes**

- 1 Soil Health Investigation Levels (HIL) for Residential A, Residential B, Public Open Space C, Commercial/Industrial D in HEPA 2025
  - 2 Landfill Acceptance Criteria, Total Concentrations (HEPA 2025)
  - 3 Landfill Acceptance Criteria, ASLP Leachable Concentrations (HEPA 2025)
- HEPA 2025 Heads of EPA Australia and NZ - PFAS National Environmental Management Plan v3.0 (2025)  
LOR Limit of Reporting

# APPENDICES



## APPENDIX C: TEST PIT LOGS

<b>UTM</b> : 55G	<b>Excavator</b> : 2.5T Excavator	<b>Job Number</b> : JN26714
<b>Easting</b> : 521126.60	<b>Excavator Supplier</b> : DIGGA	<b>Client</b> : Adventure Patch
<b>Northing</b> : 5236473.32	<b>Logged By</b> : HT	<b>Project</b> : 1686 Channel Highway
<b>RL</b> : 15.79(m)	<b>Reviewed By</b> : SLR	<b>Location</b> : 1686 Channel Hwy, Margate TAS 7054, Australia
<b>Total Depth</b> : 1 m	<b>Date</b> : 04/02/2026	<b>Loc Comment</b> :

Drilling Method	Water	Depth (m)	Graphic Log	Classification Code	Material Description	Moisture	Samples	Field Screening
							Soil	PID
				FILL	FILL: Gravelly SAND: fine to coarse grained, grey brown, fine to medium sized gravel, medium dense, dry.	D	TP01_0-0.1	0.2
		0.5		FILL	FILL: Sandy CLAY: low to medium plasticity, dark brown, fine to medium grained sand, firm, moist.	M	TP01_0.4-0.5	0
				CI	CLAY: medium plasticity, brown with orange and grey mottling, firm, moist.	M	TP01_0.9-1.0	0
TP01 Terminated at 1 m								



This report must be read in conjunction with accompanying notes and abbreviations. It has been prepared for environmental purposes only, without attempt to consider geotechnical properties or the geotechnical significance of the materials encountered. As such it should not be relied upon for geotechnical purposes.

UTM : 55G	Excavator : 2.5T Excavator	Job Number : JN26714
Easting : 521125.04	Excavator Supplier : DIGGA	Client : Adventure Patch
Northing : 5236467.66	Logged By : HT	Project : 1686 Channel Highway
RL : 15.72(m)	Reviewed By : SLR	Location : 1686 Channel Hwy, Margate TAS 7054, Australia
Total Depth : 1 m	Date : 04/02/2026	Loc Comment :

Drilling Method	Water	Depth (m)	Graphic Log	Classification Code	Material Description	Moisture	Samples		Field Screening	
							Soil	PID		
				FILL	FILL: Gravelly to Sandy SILT: low plasticity, grey, fine to medium sized gravel, fine to medium grained sand, firm, dry.	D	TP02_0-0.1	0		
		0.5		CI	CLAY: medium plasticity, brown mottled with grey and orange, firm, moist.	M	TP02_0.5-0.6	0		
					TP02 Terminated at 1 m		TP02_0.9-1.0			



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UTM : 55G	Excavator : 2.5T Excavator	Job Number : JN26714
Easting : 521129.67	Excavator Supplier : DIGGA	Client : Adventure Patch
Northing : 5236463.76	Logged By : Hudson Trigg	Project : 1686 Channel Highway
RL : 15.53(m)	Reviewed By :	Location : 1686 Channel Hwy, Margate TAS 7054, Australia
Total Depth : 1 m	Date : 04/02/2026	Loc Comment :

Drilling Method	Water	Depth (m)	Graphic Log	Classification Code	Material Description	Moisture	Samples	Field Screening
							Soil	PID
				FILL	FILL: Gravelly to Sandy SILT: low plasticity, grey, fine to medium sized gravel, fine to medium grained sand, firm, dry.	D	TP03_0-0.1	0
		0.5		Cl	CLAY: medium plasticity, brown with mottled grey and orange, firm, moist.	M	TP03_0.4-0.5	0.1
					TP03 Terminated at 1 m		TP03_0.9-1.0	0



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UTM : 55G	Excavator :	Job Number : JN26714
Easting : 521140.53	Excavator Supplier :	Client : Adventure Patch
Northing : 5236470.17	Logged By : Hudson Trigg	Project : 1686 Channel Highway
RL : 15.94(m)	Reviewed By :	Location : 1686 Channel Hwy, Margate TAS 7054, Australia
Total Depth : 1 m	Date : 04/02/2026	Loc Comment :

Drilling Method	Water	Depth (m)	Graphic Log	Classification Code	Material Description	Moisture	Samples		Field Screening	
							Soil	PID		
				FILL	FILL: Gravelly to Sandy SILT: medium plasticity, grey, fine to medium sized gravel, fine to medium grained sand, firm, dry.	D	TP04_0-0.1	0		
		0.5		CI	CLAY: medium plasticity, brown with mottled grey and orange, firm, moist.	M	TP04_0.4-0.5	0.1		
					TP04 Terminated at 1 m		TP04_0.9-1.0	0		

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UTM : 55G	Excavator : 2.5T Excavator	Job Number : JN26714
Easting : 521160.50	Excavator Supplier : DIGGA	Client : Adventure Patch
Northing : 5236473.66	Logged By : Hudson Trigg	Project : 1686 Channel Highway
RL : 15.26(m)	Reviewed By :	Location : 1686 Channel Hwy, Margate TAS 7054, Australia
Total Depth : 1 m	Date : 04/02/2026	Loc Comment :

Drilling Method	Water	Depth (m)	Graphic Log	Classification Code	Material Description	Moisture	Samples	Field Screening
							Soil	PID
				FILL	FILL: Gravelly SAND: fine to coarse grained, grey, fine sized gravel, trace low plasticity clay, loose, dry.	D	TP05_0-0.1	0.1
				FILL	FILL: Sandy CLAY: low to medium plasticity, dark brown, medium to coarse grained sand, soft to firm, moist to dry.	M-D	TP05_0.2-0.3	0
		0.5		Cl	CLAY: medium plasticity, brown with mottled grey and orange, firm, moist.	M	TP05_0.4-0.5	
							TP05_0.9-1.0	0
TP05 Terminated at 1 m								

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# APPENDICES

## APPENDIX D: PHOTOGRAPHIC LOG



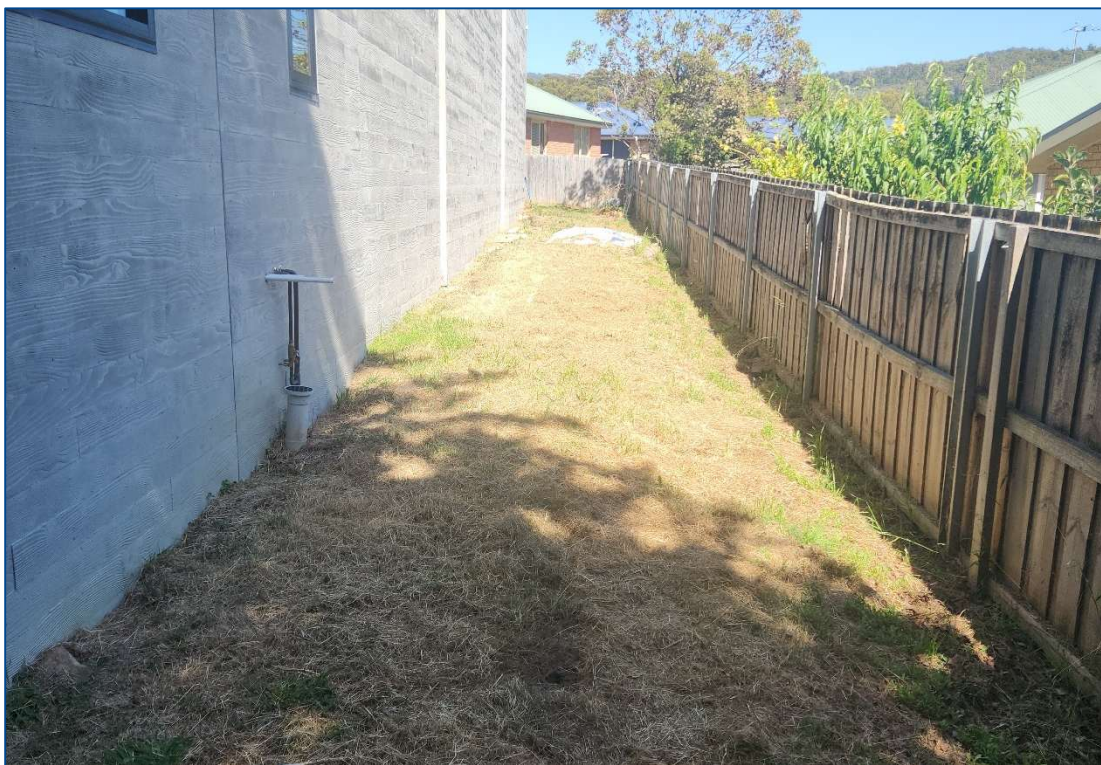
Photograph 1: View of the site from the eastern boundary facing west



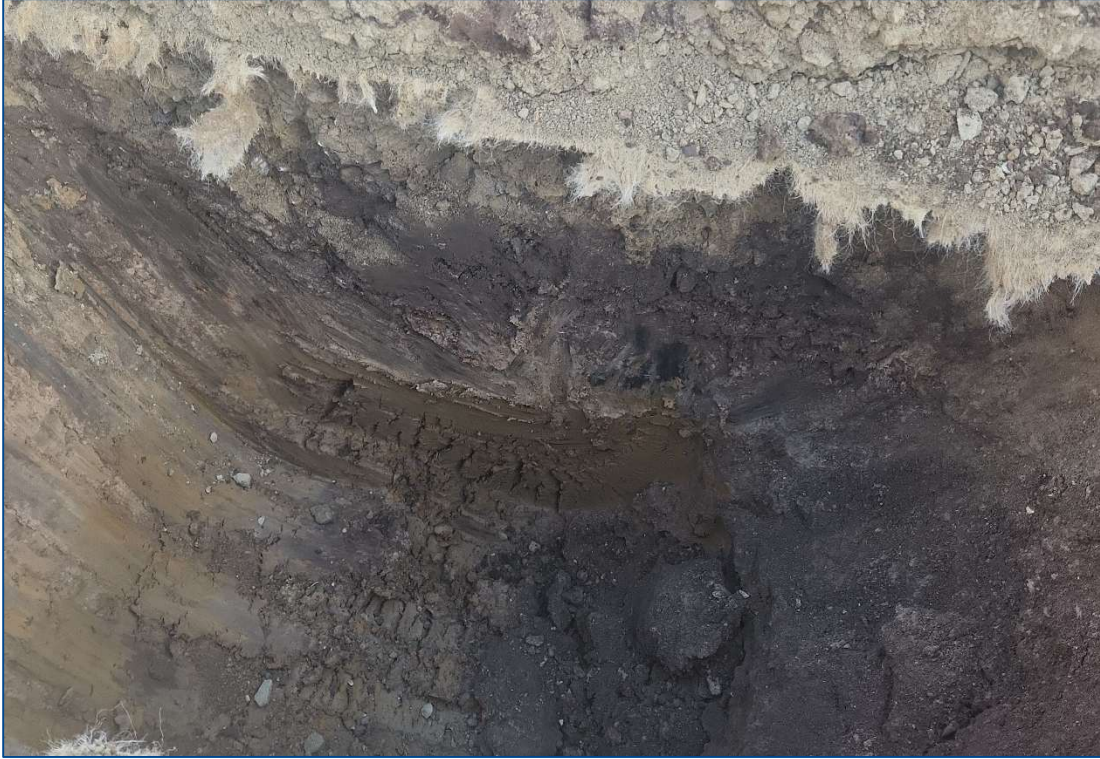
Photograph 2: View of the site from the southeast corner facing northwest



*Photograph 3: View of the site from the southwest corner facing northeast*



*Photograph 4: View of the site from the northern boundary facing west*



*Photograph 5: View of TP01*



*Photograph 6: View of TP02*



*Photograph 7: View of TP03*



*Photograph 8: View of TP04*



*Photograph 9: View of TP05*

# APPENDICES

## APPENDIX E: PROPOSED DEVELOPMENT





DRAWING SCHEDULE	
Drawing	Sheet Name
	COVER PAGE
1	SITE PLAN
2	DEMOLITION PLAN - GROUND
3	DEMOLITION - FIRST
4	PROPOSED FLOOR PLAN - GROUND
5	PROPOSED FLOOR PLAN - FIRST
6	ELEVATIONS 1
7	ELEVATIONS 2
8	ROOF PLAN
9	REFLECTED CEILING PLAN - GROUND
10	REFLECTED CEILING PLAN - FIRST
11	WINDOW & DOOR SCHEDULE



1 6 8 6 Channel Highway Maragata TAS 7 0 5 4

### AREA ANALYSIS

115 PLACES

SITE COVERAGE		
EXISTING	433m <sup>2</sup>	
PROPOSED	493m <sup>2</sup>	
TOTAL		926m <sup>2</sup>
GROSS FLOOR AREA		755.60 m <sup>2</sup>
HARDSTAND		673 m <sup>2</sup>
LANDSCAPING (EXCLUDES OUTDOOR PLAY)		263m <sup>2</sup>
TOTAL USABLE OUTDOOR PLAY AREA (min 518m <sup>2</sup> required for 74 places)		605m <sup>2</sup>

### PARKING SCHEDULE

STAFF/VISITOR PARKING	23 SPACES
ACCESSIBLE PARKING	1 SPACE
TOTAL	24 SPACES



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**REAL PROPERTY DESCRIPTION**  
LOT: 1 on RP00000  
AREA: #,##m<sup>2</sup>  
ZONE: 12345  
AUTHORITY: 12345

**BUILDING CLASSIFICATION**  
CHILD CARE: CLASS 9B  
TYPE C CONSTRUCTION  
OFFICE: CLASS 5  
TYPE C CONSTRUCTION

**REVISION HISTORY**

ISSUE	DATE	DESCRIPTION
A	28/10/25	Concept Design Issue_1
B	07/11/25	Preliminary Design Issue_1
C	11/11/25	Preliminary Design Issue_2
D	04/12/25	Preliminary Design Issue_3

JODIE MARK  
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cyberservicesgroup.com.au

DRAWING TITLE

**SITE PLAN**  
CLIENT  
Falcon Building Group  
1686 Channel Highway  
Maragate TAS 7054

SCALE  
AS SHOWN @ A3

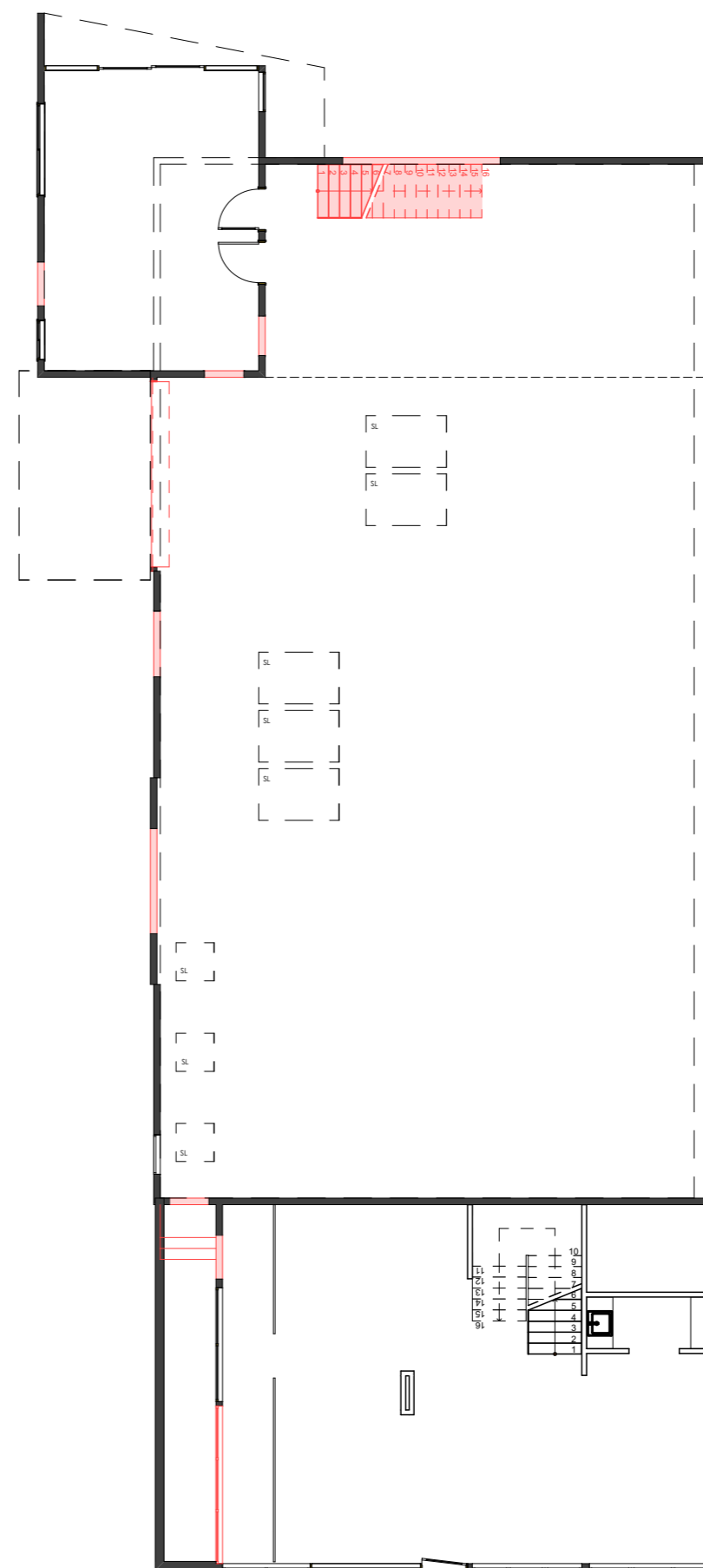
250164  
JOB No.

D  
REVISION

SHEET  
**1**

**PROPOSED SITE PLAN**  
Scale: 1:200

PRELIMINARY DRAWINGS - NOT FOR CONSTRUCTION



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 QUEENSLAND 4173  
 PH: (07) 3393 9159  
 cyberservicesgroup.com.au

DRAWING TITLE  
**DEMOLITION PLAN - GROUND**

CLIENT  
 Falcon Building Group  
 1686 Channel Highway  
 Maragate TAS 7054

SCALE  
 AS SHOWN @ A3

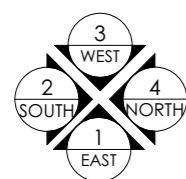
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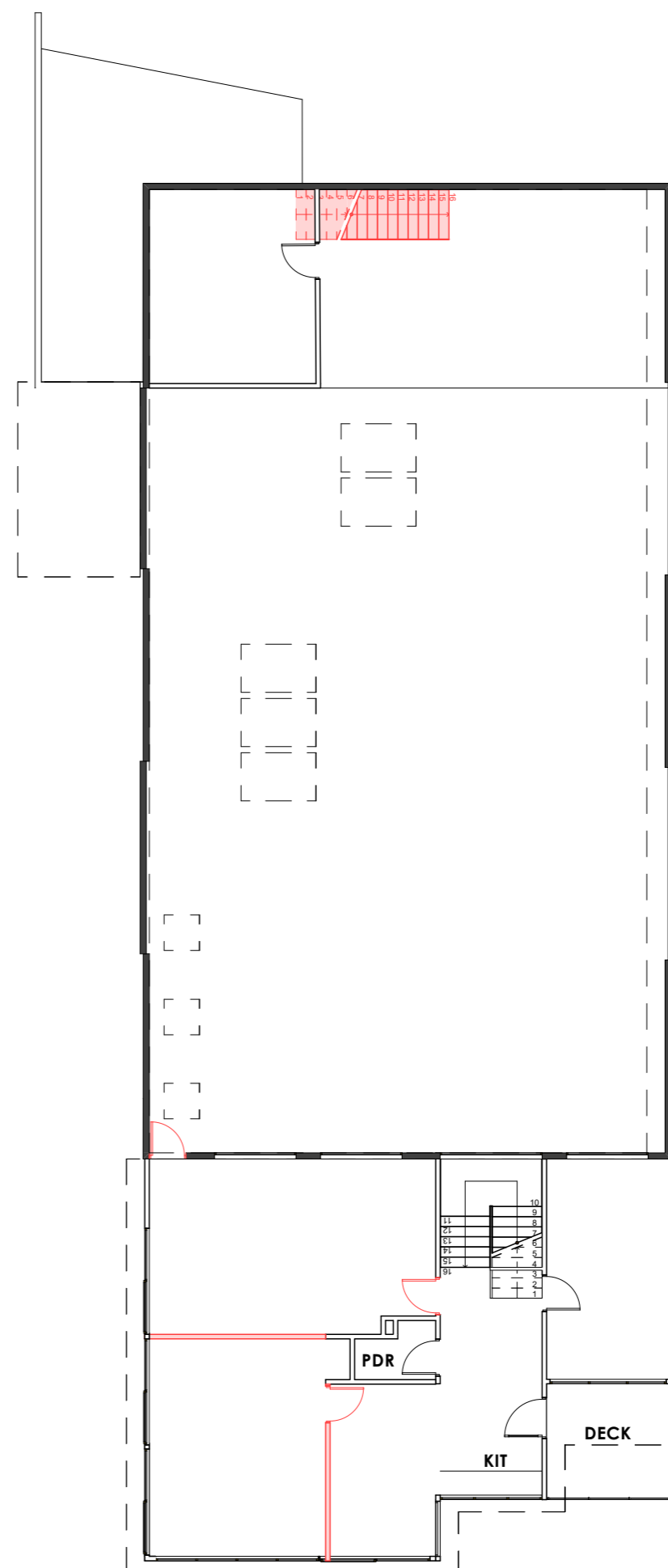
D  
 REVISION

SHEET

2



**DEMOLITION GROUND FLOOR**  
 Scale: 1:150



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 LOT: 1 on RP00000  
 AREA: #,##m<sup>2</sup>  
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DRAWING TITLE

**DEMOLITION - FIRST**

CLIENT  
 Falcon Building Group  
 1686 Channel Highway  
 Maragate TAS 7054

SCALE  
 AS SHOWN @ A3

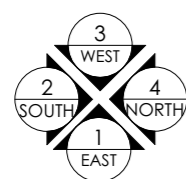
250164  
 JOB No.



D  
 REVISION

SHEET

3



**DEMOLITION FIRST FLOOR**  
 Scale: 1:150

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**DRAWING TITLE**

**PROPOSED FLOOR PLAN - GROUND**

CLIENT  
Falcon Building Group  
1686 Channel Highway  
Maragate TAS 7054

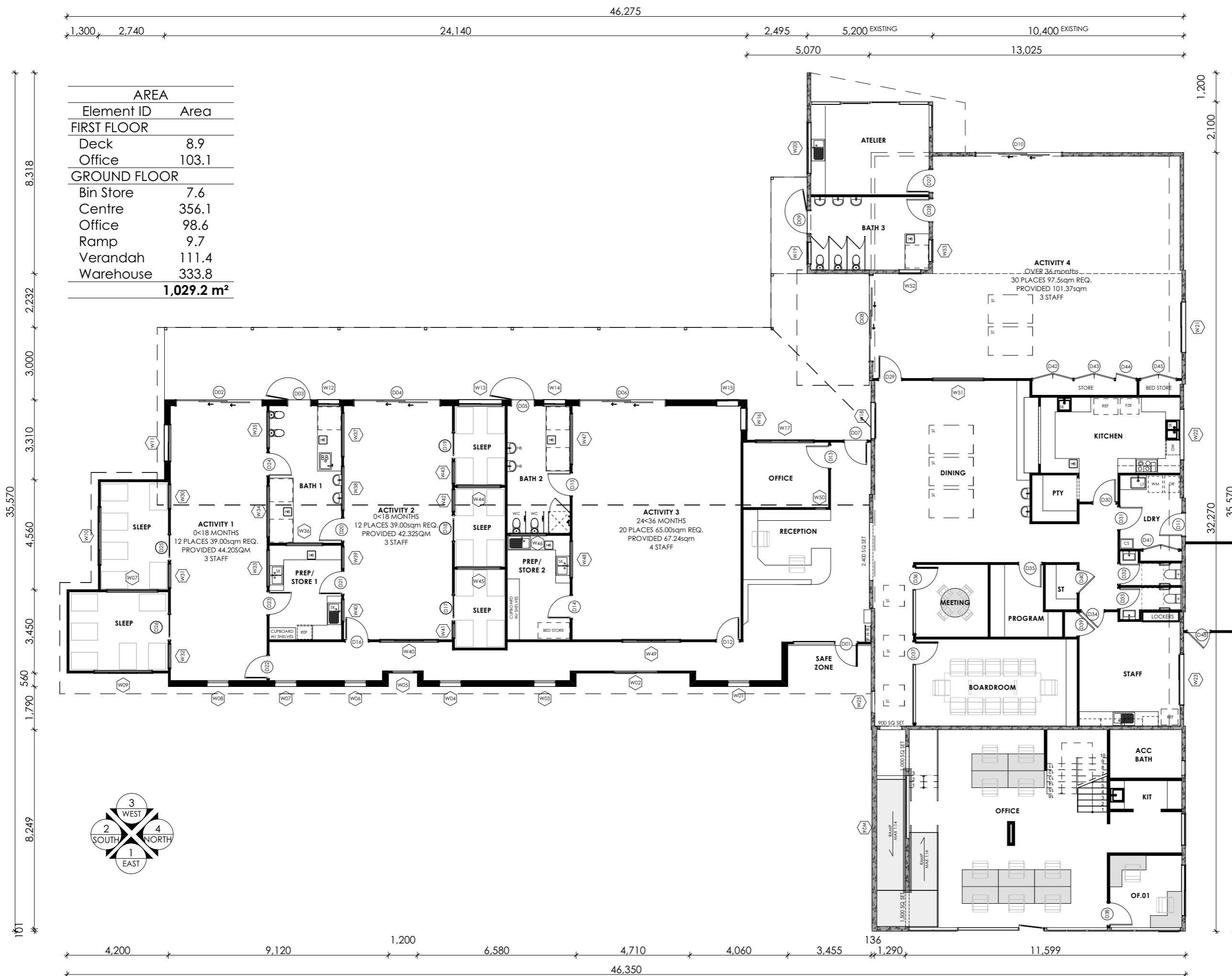
SCALE  
AS SHOWN @ A3

250164  
JOB No.

D  
REVISION

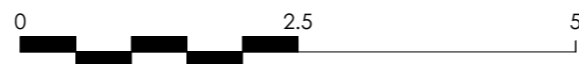
SHEET

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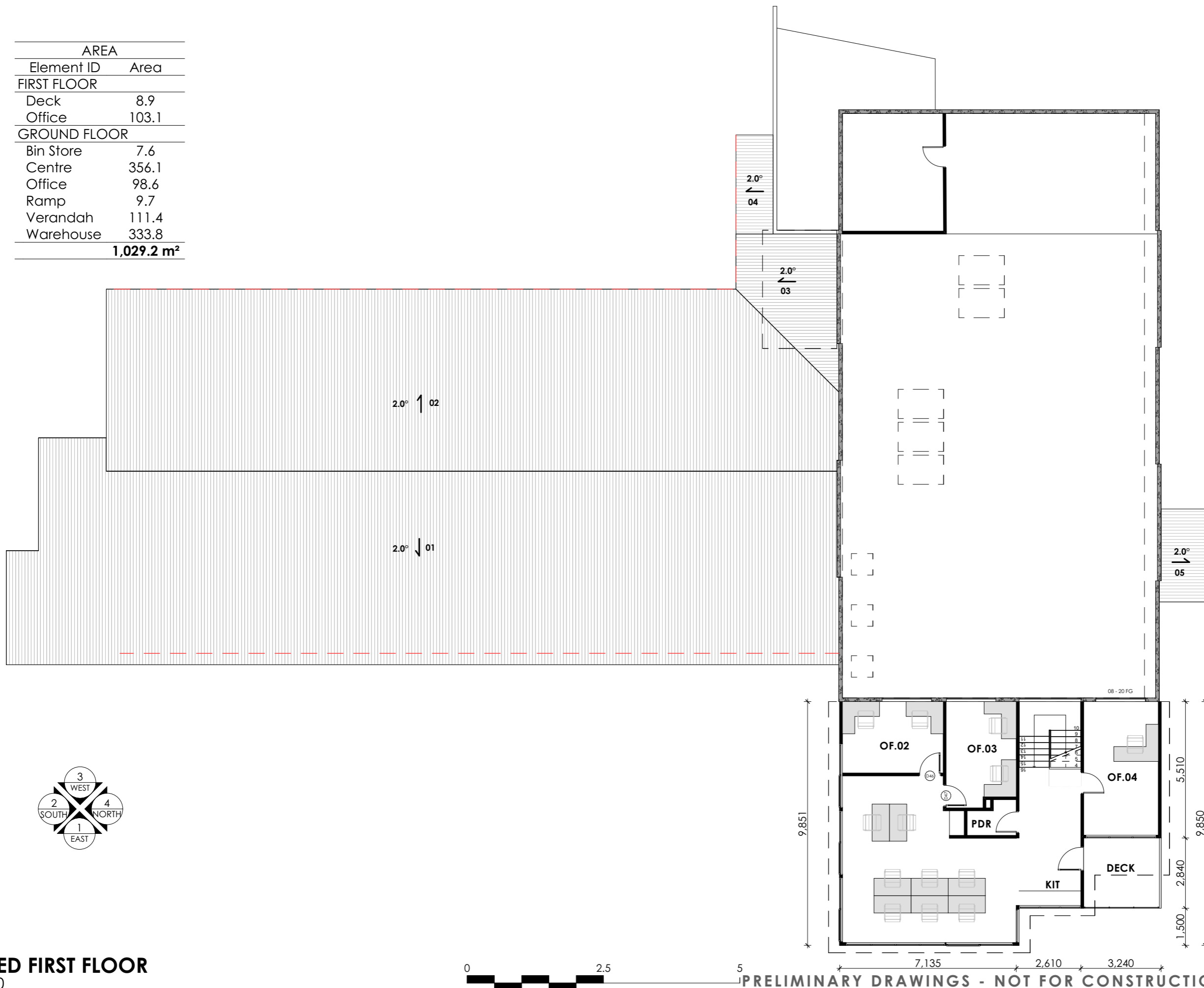
**PROPOSED GROUND FLOOR**

Scale: 1:150



PRELIMINARY DRAWINGS - NOT FOR CONSTRUCTION

AREA	
Element ID	Area
<b>FIRST FLOOR</b>	
Deck	8.9
Office	103.1
<b>GROUND FLOOR</b>	
Bin Store	7.6
Centre	356.1
Office	98.6
Ramp	9.7
Verandah	111.4
Warehouse	333.8
<b>1,029.2 m<sup>2</sup></b>	



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**REAL PROPERTY DESCRIPTION**  
 LOT: 1 on RP00000  
 AREA: #,##m<sup>2</sup>  
 ZONE: 12345  
 AUTHORITY: 12345

**BUILDING CLASSIFICATION**  
 CHILD CARE: CLASS 9B  
 TYPE C CONSTRUCTION  
 OFFICE: CLASS 5  
 TYPE C CONSTRUCTION

**REVISION HISTORY**

ISSUE	DATE	DESCRIPTION
A	28/10/25	Concept Design Issue_1
B	07/11/25	Preliminary Design Issue_1
C	11/11/25	Preliminary Design Issue_2
D	04/12/25	Preliminary Design Issue_3

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 QBCC: 15093960  
 ACN: 620 422 166  
 6/1631 WYNNUM ROAD, TINGALPA  
 QUEENSLAND 4173  
 PH: (07) 3393 9159  
 cyberservicesgroup.com.au

DRAWING TITLE  
**PROPOSED FLOOR PLAN - FIRST**

CLIENT  
 Falcon Building Group  
 1686 Channel Highway  
 Maragate TAS 7054

SCALE  
 AS SHOWN @ A3

250164  
 JOB No.



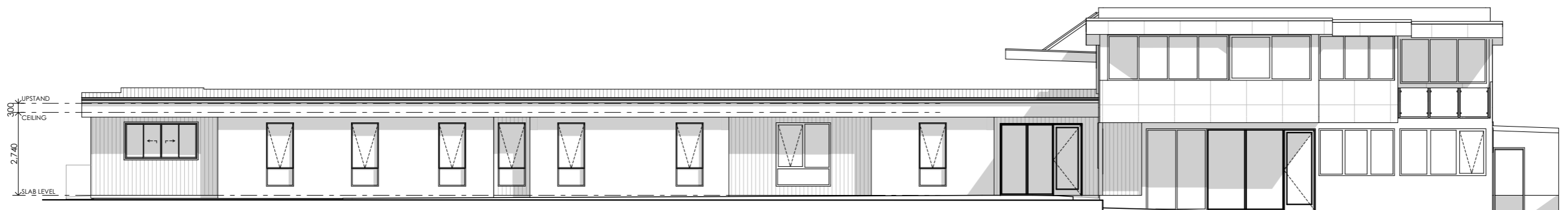
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 REVISION

SHEET

5

**PROPOSED FIRST FLOOR**  
 Scale: 1:150

0 2.5 5 7,135 2,610 3,240  
**PRELIMINARY DRAWINGS - NOT FOR CONSTRUCTION**



## 1 PROPOSED SOUTH ELEVATION

Scale: 1:150



## 2 PROPOSED WEST ELEVATION

Scale: 1:150

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AUTHORITY: 12345

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DRAWING TITLE

### ELEVATIONS 1

CLIENT  
Falcon Building Group  
1686 Channel Highway  
Maragate TAS 7054

SCALE  
AS SHOWN @ A3



250164  
JOB No.

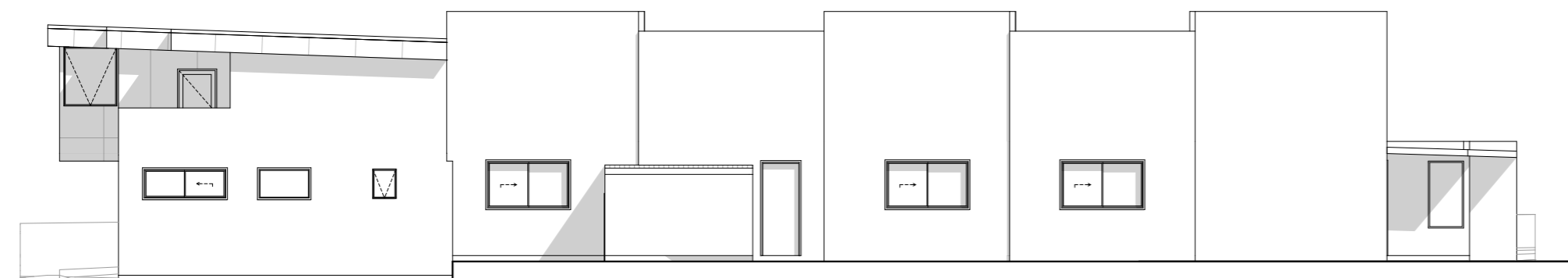
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REVISION

SHEET

6



**3 PROPOSED NORTH ELEVATION**  
Scale: 1:150



**4 PROPOSED EAST ELEVATION**  
Scale: 1:150

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AUTHORITY: 12345

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cyberservicesgroup.com.au

DRAWING TITLE

**ELEVATIONS 2**

CLIENT  
Falcon Building Group  
1686 Channel Highway  
Maragate TAS 7054

SCALE  
AS SHOWN @ A3



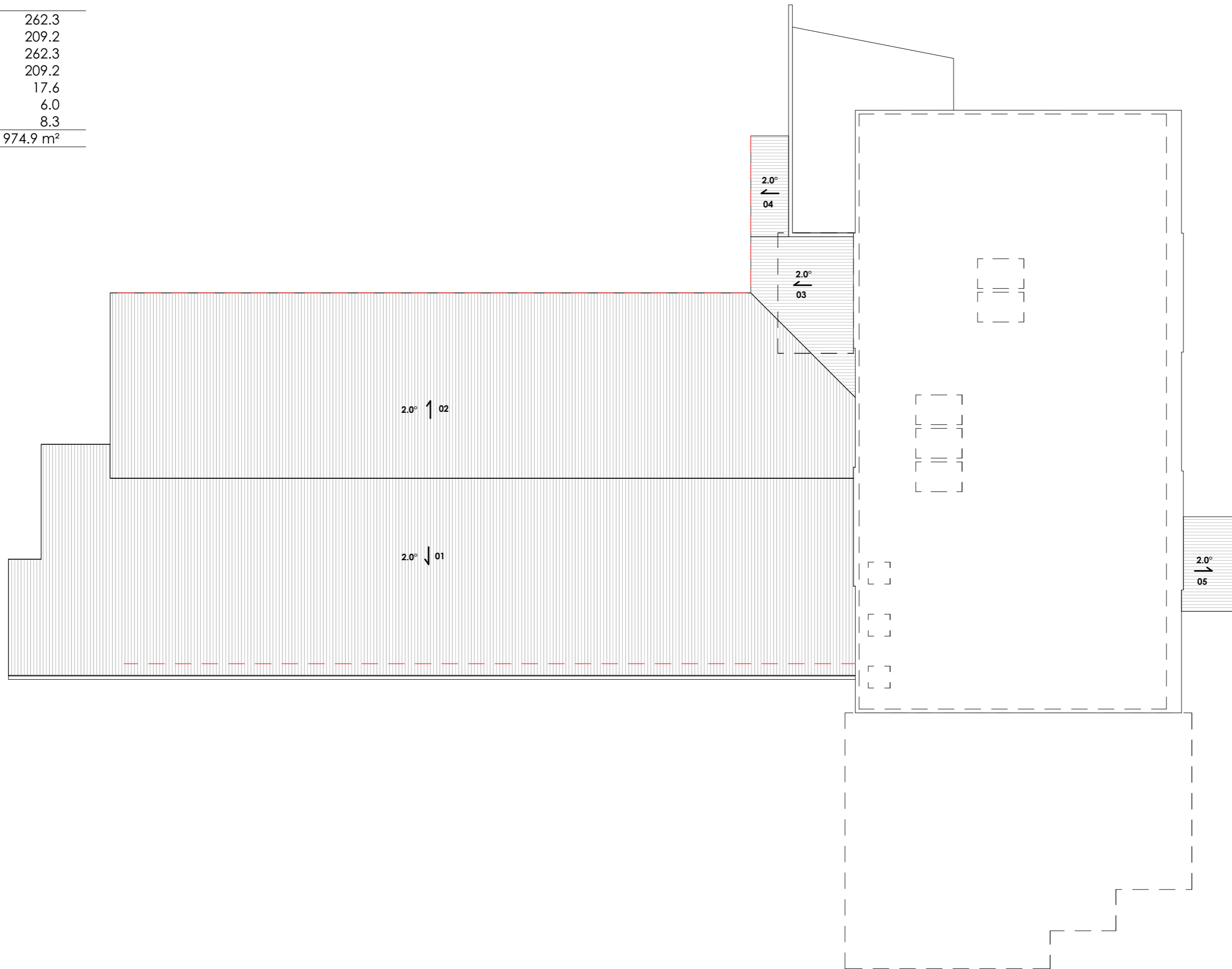
250164  
JOB No.

D  
REVISION

SHEET

7

ROOF SCHEDULE	
ID	Area on the rake
014	262.3
R45	209.2
R4R	262.3
02P	209.2
03	17.6
04	6.0
05	8.3
974.9 m <sup>2</sup>	



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 AUTHORITY: 12345

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 OFFICE: CLASS 5  
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DRAWING TITLE

**ROOF PLAN**

CLIENT  
 Falcon Building Group  
 1686 Channel Highway  
 Maragate TAS 7054

SCALE  
 AS SHOWN @ A3



250164  
 JOB No.

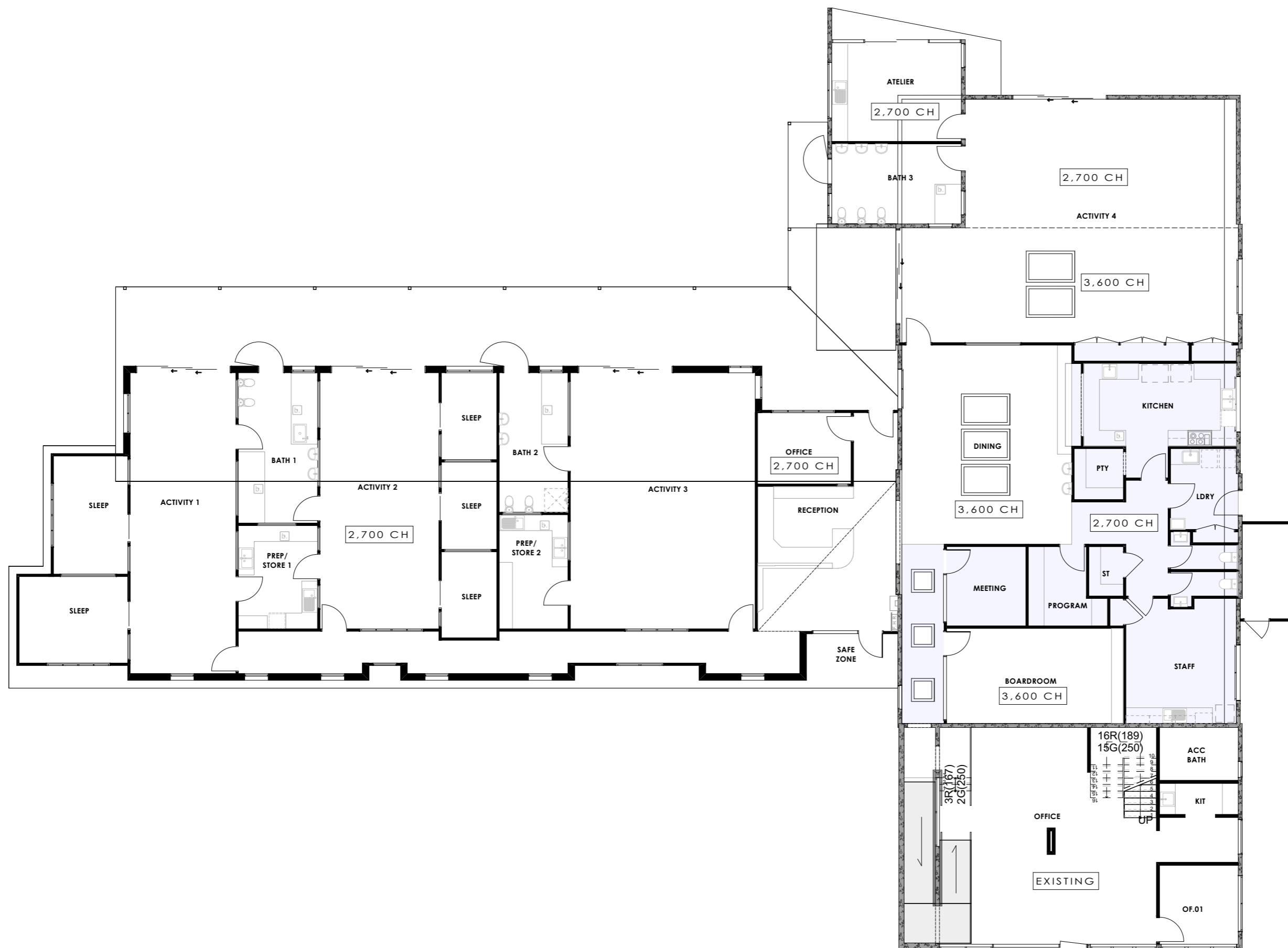
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**PROPOSED ROOF PLAN**  
 Scale: 1:150

PRELIMINARY DRAWINGS - NOT FOR CONSTRUCTION



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DRAWING TITLE  
**REFLECTED CEILING PLAN - GROUND**

CLIENT  
 Falcon Building Group  
 1686 Channel Highway  
 Maragata TAS 7054

SCALE  
 AS SHOWN @ A3

250164  
 JOB No.



D  
 REVISION

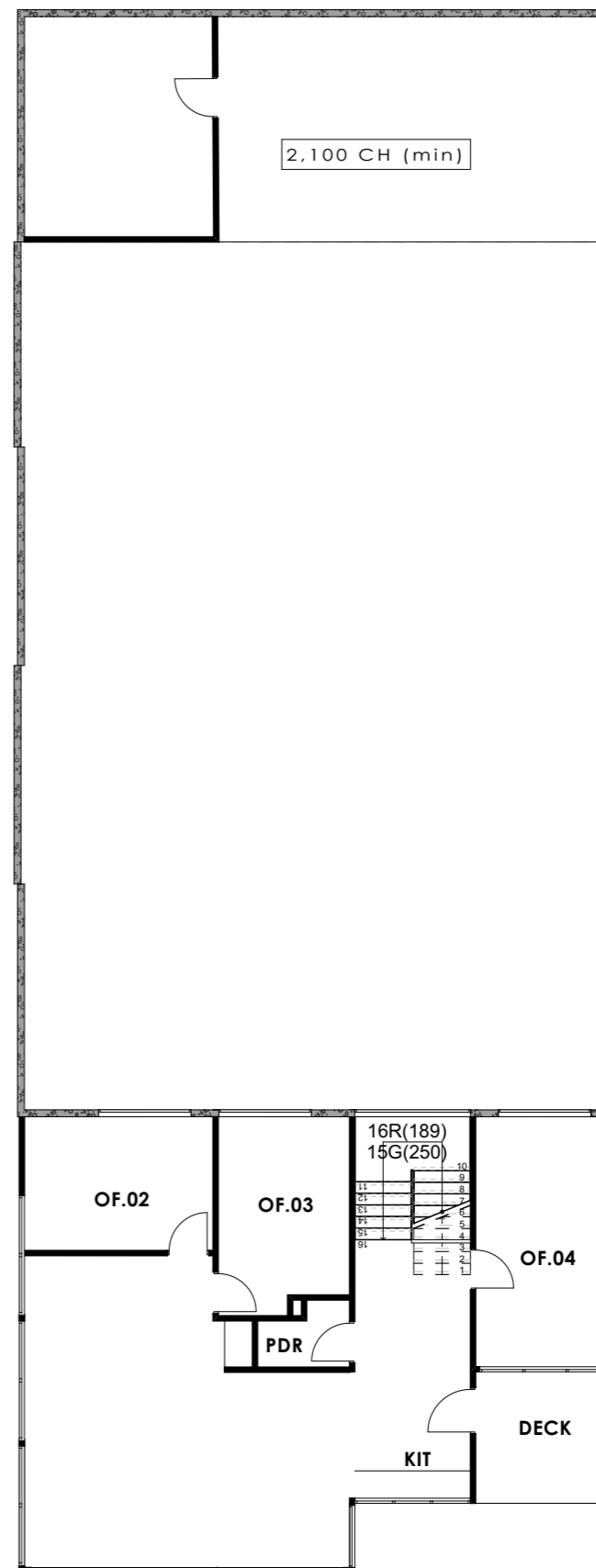
SHEET

**REFLECTED CEILING - GROUND FLOOR**

Scale: 1:150

Document Set ID: 4744586  
 Version: 1, Version Date: 23/03/2026

PRELIMINARY DRAWINGS - NOT FOR CONSTRUCTION



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DRAWING TITLE  
**REFLECTED CEILING PLAN - FIRST**

CLIENT  
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 Maragata TAS 7054

SCALE  
 AS SHOWN @ A3



250164  
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 REVISION

SHEET

10

**REFLECTED CEILING - FIRST FLOOR**  
 Scale: 1:150

PRELIMINARY DRAWINGS - NOT FOR CONSTRUCTION

ID	D01	D02	D03	D04	D05	D06	D07	D08	D09	D10	D11	D12	D13	D14
ELEVATION														
HEIGHT	2,340	2,400	2,340	2,400	2,340	2,400	2,340	2,400	2,340	2,400	2,340	2,340	2,040	2,340
WIDTH	920	3,600	920	3,600	920	3,600	920	3,600	920	3,600	920	920	920	920
DOOR HEAD HEIGHT	2,340	2,400	2,340	2,400	2,340	2,400	2,340	2,400	2,340	2,400	2,340	2,340	2,040	2,340

ID	D15	D16	D17	D18	D19	D20	D21	D22	D23	D24	D25	D26	D29	D30	D31	D32	D33	D34	D35
ELEVATION																			
HEIGHT	2,340	2,340	2,340	2,340	2,340	2,340	2,340	2,340	2,340	2,340	2,340	2,340	2,340	2,040	2,040	2,040	2,040	2,040	2,040
WIDTH	920	920	1,020	1,020	1,020	920	920	920	920	920	1,020	1,020	920	920	920	820	820	920	920
DOOR HEAD HEIGHT	2,340	2,340	2,340	2,340	2,340	2,340	2,340	2,340	2,340	2,340	2,340	2,340	2,340	2,040	2,040	2,040	2,040	2,040	2,040

ID	D36	D37	D38	D39	D40	D41	D42	D43	D44	D45	D46	D47	D48
ELEVATION													
HEIGHT	2,072	2,072	2,040	2,040	2,040	2,340	2,340	2,340	2,040	2,340	2,100	2,100	2,040
WIDTH	920	920	920	920	920	1,440	1,640	1,640	820	1,440	820	820	920
DOOR HEAD HEIGHT	2,072	2,072	2,040	2,040	2,040	2,340	2,340	2,340	2,040	2,340	2,100	2,100	2,040

ID	W01	W02	W03	W04	W05	W06	W07	W07	W08	W09	W10	W11	W12	W13	W14	W15	W16	W17	W18
ELEVATION																			
HEIGHT	2,100	2,100	2,100	2,100	2,100	2,100	1,000	2,100	2,100	1,200	1,200	1,800	1,200	1,200	1,200	1,800	1,800	1,200	1,800
WIDTH	900	1,800	900	900	900	900	2,100	900	900	2,400	2,400	1,500	900	1,800	900	900	900	2,400	1,500
HEAD HEIGHT	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400

ID	W21	W22	W23	W24	W30	W31	W32	W33	W34	W35	W36	W37	W38	W39	W40	W40
ELEVATION																
HEIGHT	1,200	1,200	1,200	1,500	1,300	1,300	1,300	1,300	1,300	1,300	1,000	1,300	1,300	1,300	1,200	1,300
WIDTH	2,100	2,100	2,100	3,600	1,000	1,000	1,000	1,500	2,100	1,500	1,500	1,800	1,800	900	2,400	900
HEAD HEIGHT	2,400	2,400	2,400	2,700	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400

ID	W40	W41	W42	W43	W44	W45	W46	W47	W48	W49	W50	W51	W52	W53
ELEVATION														
HEIGHT	1,300	1,300	1,300	1,300	1,000	1,000	1,000	1,300	1,300	1,200	1,500	1,300	1,300	1,300
WIDTH	900	600	900	900	1,800	1,800	1,500	2,100	1,500	2,400	450	2,100	900	900
HEAD HEIGHT	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400

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DRAWING TITLE

**WINDOW & DOOR SCHEDULE**

CLIENT  
 Falcon Building Group  
 1686 Channel Highway  
 Maragata TAS 7054

SCALE  
 AS SHOWN @ A3

250164  
 JOB No.

D  
 REVISION

SHEET

# APPENDICES

## APPENDIX F: LABORATORY DOCUMENTATION





## CERTIFICATE OF ANALYSIS

Work Order	: <b>EM2601781</b>	Page	: 1 of 31
Client	: <b>ELGIN ASSOCIATES PTY LTD</b>	Laboratory	: Environmental Division Melbourne
Contact	: SOPHIE LE ROUX	Contact	: Peter Ravlic
Address	: 28 Letitia St North Hobart 7000	Address	: 4 Westall Rd Springvale VIC Australia 3171
Telephone	: ----	Telephone	: +6138549 9645
Project	: 1686 Channel Highway	Date Samples Received	: 05-Feb-2026 12:35
Order number	: JN26714	Date Analysis Commenced	: 06-Feb-2026
C-O-C number	: ----	Issue Date	: 11-Feb-2026 18:04
Sampler	: Hudson Trigg		
Site	: ----		
Quote number	: EN/000		
No. of samples received	: 24		
No. of samples analysed	: 24		



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
Dilani Fernando	Laboratory Coordinator	Melbourne Inorganics, Springvale, VIC
Eric Chau	Metals Team Leader	Melbourne Inorganics, Springvale, VIC
Nancy Wang	2IC Organic Chemist	Melbourne Inorganics, Springvale, VIC
Nancy Wang	2IC Organic Chemist	Melbourne Organics, Springvale, VIC
Sanjay Parekh	LCMS Coordinator	Melbourne Organics, Springvale, VIC
Tim Kuo	Approved Asbestos Identifier	Melbourne Asbestos, Springvale, VIC

right solutions. right partner.



Page : 2 of 31  
Work Order : EM2601781  
Client : ELGIN ASSOCIATES PTY LTD  
Project : 1686 Channel Highway

## 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 Contract 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.

- EG048G: EM2601569 #3 poor matrix spike recovery for Hexavalent Chromium due to matrix effects. Confirmed by re-preparation and re-analysis.
- 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.
- 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.
- 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.
- EG005T: EM2601569 #3, Poor matrix spike recovery for lead due to sample matrix. Confirmed by re-extraction and re-analysis.
- 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 or as per USEPA 1633 limits where listed. 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 and also conform to QSM 5.4 (US DoD) requirements.



## Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP01_0-0.1	TP01_0.4-0.5	TP01_0.9-1.0	TP02_0-0.1	TP02_0.5-0.6
Sampling date / time				04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00	
Compound	CAS Number	LOR	Unit	EM2601781-001	EM2601781-002	EM2601781-003	EM2601781-004	EM2601781-005	
				Result	Result	Result	Result	Result	
<b>EA055: Moisture Content (Dried @ 105-110°C)</b>									
Moisture Content	----	1.0	%	3.6	7.9	25.0	1.4	25.5	
<b>EA200: AS 4964 - 2004 Identification of Asbestos in Soils</b>									
Asbestos Detected	1332-21-4	0.1	g/kg	No	----	----	No	----	
Asbestos (Trace)	1332-21-4	-	-	No	----	----	No	----	
Asbestos Type	1332-21-4	-	--	-	----	----	-	----	
Synthetic Mineral Fibre	----	-	--	No	----	----	No	----	
Organic Fibre	----	-	--	No	----	----	Yes	----	
Sample weight (dry)	----	0.01	g	1290	----	----	1060	----	
APPROVED IDENTIFIER:	----	-	--	T. KUO	----	----	T. KUO	----	
<b>EG005(ED093)T: Total Metals by ICP-AES</b>									
Arsenic	7440-38-2	5	mg/kg	<5	<5	<5	<5	<5	
Barium	7440-39-3	10	mg/kg	20	----	20	30	----	
Beryllium	7440-41-7	1	mg/kg	<1	----	<1	<1	----	
Boron	7440-42-8	50	mg/kg	<50	----	<50	<50	----	
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1	
Chromium	7440-47-3	2	mg/kg	5	3	27	8	41	
Cobalt	7440-48-4	2	mg/kg	7	----	<2	9	----	
Manganese	7439-96-5	5	mg/kg	115	----	<5	187	----	
Selenium	7782-49-2	5	mg/kg	<5	----	<5	<5	----	
Vanadium	7440-62-2	5	mg/kg	29	----	95	33	----	
Zinc	7440-66-6	5	mg/kg	25	<5	<5	116	11	
Copper	7440-50-8	5	mg/kg	63	<5	<5	69	9	
Lead	7439-92-1	5	mg/kg	6	<5	8	38	13	
Nickel	7440-02-0	2	mg/kg	16	<2	3	17	6	
<b>EG035T: Total Recoverable Mercury by FIMS</b>									
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	
<b>EG048: Hexavalent Chromium (Alkaline Digest)</b>									



## Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP01_0-0.1	TP01_0.4-0.5	TP01_0.9-1.0	TP02_0-0.1	TP02_0.5-0.6
Sampling date / time				04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00	
Compound	CAS Number	LOR	Unit	EM2601781-001	EM2601781-002	EM2601781-003	EM2601781-004	EM2601781-005	
				Result	Result	Result	Result	Result	
<b>EG048: Hexavalent Chromium (Alkaline Digest) - Continued</b>									
Hexavalent Chromium	18540-29-9	0.5	mg/kg	<0.5	----	----	<0.5	----	
<b>EK028SF: Weak Acid Dissociable CN by Segmented Flow Analyser</b>									
Weak Acid Dissociable Cyanide	----	1	mg/kg	<1	----	----	<1	----	
<b>EP066: Polychlorinated Biphenyls (PCB)</b>									
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	----	----	<0.1	----	
<b>EP068A: Organochlorine Pesticides (OC)</b>									
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 - (Lindane)	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	----	
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	----	
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	----	
<sup>^</sup> 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	----	



## Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP01_0-0.1	TP01_0.4-0.5	TP01_0.9-1.0	TP02_0-0.1	TP02_0.5-0.6
Sampling date / time				04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00	
Compound	CAS Number	LOR	Unit	EM2601781-001	EM2601781-002	EM2601781-003	EM2601781-004	EM2601781-005	
				Result	Result	Result	Result	Result	
<b>EP068A: Organochlorine Pesticides (OC) - Continued</b>									
Methoxychlor	72-43-5	0.2	mg/kg	<0.2	----	----	<0.2	----	
Mirex	2385-85-5	0.20	mg/kg	<0.20	----	----	<0.20	----	
<sup>^</sup> Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.05	----	----	<0.05	----	
<sup>^</sup> Sum of DDD + DDE + DDT	72-54-8/72-55-9/5 0-2	0.05	mg/kg	<0.05	----	----	<0.05	----	
<b>EP068B: Organophosphorus Pesticides (OP)</b>									
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	----	
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	----	
<b>EP068C: Triazines</b>									
Atrazine	1912-24-9	0.05	mg/kg	<0.05	----	----	<0.05	----	



## Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP01_0-0.1	TP01_0.4-0.5	TP01_0.9-1.0	TP02_0-0.1	TP02_0.5-0.6
Sampling date / time				04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00	
Compound	CAS Number	LOR	Unit	EM2601781-001	EM2601781-002	EM2601781-003	EM2601781-004	EM2601781-005	
				Result	Result	Result	Result	Result	
<b>EP068D: Pyrethroids</b>									
Bifenthrin	82657-04-3	0.05	mg/kg	<0.05	----	----	<0.05	----	
<b>EP075(SIM)A: Phenolic Compounds</b>									
Phenol	108-95-2	0.5	mg/kg	<0.5	----	----	<0.5	----	
2-Chlorophenol	95-57-8	0.5	mg/kg	<0.5	----	----	<0.5	----	
2-Methylphenol	95-48-7	0.5	mg/kg	<0.5	----	----	<0.5	----	
3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	----	----	<1	----	
2-Nitrophenol	88-75-5	0.5	mg/kg	<0.5	----	----	<0.5	----	
2.4-Dimethylphenol	105-67-9	0.5	mg/kg	<0.5	----	----	<0.5	----	
2.4-Dichlorophenol	120-83-2	0.5	mg/kg	<0.5	----	----	<0.5	----	
2.6-Dichlorophenol	87-65-0	0.5	mg/kg	<0.5	----	----	<0.5	----	
4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg	<0.5	----	----	<0.5	----	
2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg	<0.5	----	----	<0.5	----	
2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg	<0.5	----	----	<0.5	----	
Pentachlorophenol	87-86-5	2	mg/kg	<2	----	----	<2	----	
<b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons</b>									
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	----	<0.5	<0.5	
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5	
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5	
Pyrene	129-00-0	0.5	mg/kg	<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	
Chrysene	218-01-9	0.5	mg/kg	<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	
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5	



## Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP01_0-0.1	TP01_0.4-0.5	TP01_0.9-1.0	TP02_0-0.1	TP02_0.5-0.6
Sampling date / time				04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00	
Compound	CAS Number	LOR	Unit	EM2601781-001	EM2601781-002	EM2601781-003	EM2601781-004	EM2601781-005	
				Result	Result	Result	Result	Result	
<b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued</b>									
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<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	
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	<0.5	
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<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	
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	<b>0.6</b>	<b>0.6</b>	----	<b>0.6</b>	<b>0.6</b>	
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	<b>1.2</b>	<b>1.2</b>	----	<b>1.2</b>	<b>1.2</b>	
<b>EP080/071: Total Petroleum Hydrocarbons</b>									
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	
<b>EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions</b>									
C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	----	<10	<10	
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	<10	----	<10	<10	
>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	----	<100	<100	
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	----	<50	<50	
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	<50	----	<50	<50	
<b>EP080: BTEXN</b>									
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	



## Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP01_0-0.1	TP01_0.4-0.5	TP01_0.9-1.0	TP02_0-0.1	TP02_0.5-0.6
Sampling date / time				04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00	
Compound	CAS Number	LOR	Unit	EM2601781-001	EM2601781-002	EM2601781-003	EM2601781-004	EM2601781-005	
				Result	Result	Result	Result	Result	
<b>EP080: BTEXN - Continued</b>									
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	
<b>EP066S: PCB Surrogate</b>									
Decachlorobiphenyl	2051-24-3	0.1	%	88.8	----	----	86.5	----	
<b>EP068S: Organochlorine Pesticide Surrogate</b>									
Dibromo-DDE	21655-73-2	0.05	%	76.1	----	----	75.3	----	
<b>EP068T: Organophosphorus Pesticide Surrogate</b>									
DEF	78-48-8	0.05	%	77.0	----	----	81.2	----	
<b>EP075(SIM)S: Phenolic Compound Surrogates</b>									
Phenol-d6	13127-88-3	0.5	%	85.2	83.4	----	80.7	92.4	
2-Chlorophenol-D4	93951-73-6	0.5	%	87.7	88.1	----	85.3	95.7	
2,4,6-Tribromophenol	118-79-6	0.5	%	77.7	76.7	----	78.3	83.1	
<b>EP075(SIM)T: PAH Surrogates</b>									
2-Fluorobiphenyl	321-60-8	0.5	%	92.8	93.6	----	93.4	101	
Anthracene-d10	1719-06-8	0.5	%	94.4	94.3	----	92.2	103	
4-Terphenyl-d14	1718-51-0	0.5	%	105	106	----	107	116	
<b>EP080S: TPH(V)/BTEX Surrogates</b>									
1,2-Dichloroethane-D4	17060-07-0	0.2	%	85.2	82.4	----	89.7	84.4	
Toluene-D8	2037-26-5	0.2	%	86.6	86.7	----	93.4	91.3	
4-Bromofluorobenzene	460-00-4	0.2	%	111	112	----	118	112	



## Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP02_0.9-1.0	TP03_0-0.1	TP03_0.4-0.5	TP03_0.9-1.0	TP04_0-0.1
Sampling date / time				04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00	
Compound	CAS Number	LOR	Unit	EM2601781-006	EM2601781-007	EM2601781-008	EM2601781-009	EM2601781-010	
				Result	Result	Result	Result	Result	
<b>EA055: Moisture Content (Dried @ 105-110°C)</b>									
Moisture Content	----	1.0	%	27.5	2.5	14.7	22.3	3.2	
<b>EA200: AS 4964 - 2004 Identification of Asbestos in Soils</b>									
Asbestos Detected	1332-21-4	0.1	g/kg	----	No	----	----	No	
Asbestos (Trace)	1332-21-4	-	-	----	No	----	----	No	
Asbestos Type	1332-21-4	-	--	----	-	----	----	-	
Synthetic Mineral Fibre	----	-	--	----	No	----	----	No	
Organic Fibre	----	-	--	----	Yes	----	----	Yes	
Sample weight (dry)	----	0.01	g	----	1020	----	----	865	
APPROVED IDENTIFIER:	----	-	--	----	T. KUO	----	----	T. KUO	
<b>EG005(ED093)T: Total Metals by ICP-AES</b>									
Arsenic	7440-38-2	5	mg/kg	<5	<5	<5	<5	<5	
Barium	7440-39-3	10	mg/kg	20	30	----	10	----	
Beryllium	7440-41-7	1	mg/kg	<1	<1	----	<1	----	
Boron	7440-42-8	50	mg/kg	<50	<50	----	<50	----	
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1	
Chromium	7440-47-3	2	mg/kg	35	6	12	27	3	
Cobalt	7440-48-4	2	mg/kg	3	7	----	<2	----	
Manganese	7439-96-5	5	mg/kg	<5	140	----	<5	----	
Selenium	7782-49-2	5	mg/kg	<5	<5	----	<5	----	
Vanadium	7440-62-2	5	mg/kg	94	30	----	87	----	
Zinc	7440-66-6	5	mg/kg	8	48	5	7	59	
Copper	7440-50-8	5	mg/kg	7	55	<5	6	12	
Lead	7439-92-1	5	mg/kg	12	19	<5	8	34	
Nickel	7440-02-0	2	mg/kg	5	13	<2	4	<2	
<b>EG035T: Total Recoverable Mercury by FIMS</b>									
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	0.2	
<b>EG048: Hexavalent Chromium (Alkaline Digest)</b>									



## Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP02_0.9-1.0	TP03_0-0.1	TP03_0.4-0.5	TP03_0.9-1.0	TP04_0-0.1
Sampling date / time				04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00	
Compound	CAS Number	LOR	Unit	EM2601781-006	EM2601781-007	EM2601781-008	EM2601781-009	EM2601781-010	
				Result	Result	Result	Result	Result	
<b>EG048: Hexavalent Chromium (Alkaline Digest) - Continued</b>									
Hexavalent Chromium	18540-29-9	0.5	mg/kg	----	<0.5	----	----	----	
<b>EK028SF: Weak Acid Dissociable CN by Segmented Flow Analyser</b>									
Weak Acid Dissociable Cyanide	----	1	mg/kg	----	<1	----	----	----	
<b>EP066: Polychlorinated Biphenyls (PCB)</b>									
Total Polychlorinated biphenyls	----	0.1	mg/kg	----	<0.1	----	----	----	
<b>EP068A: Organochlorine Pesticides (OC)</b>									
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 - (Lindane)	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	----	----	----	
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	----	----	----	
<sup>^</sup> 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	----	----	----	
4,4'-DDT	50-29-3	0.2	mg/kg	----	<0.2	----	----	----	
Endrin ketone	53494-70-5	0.05	mg/kg	----	<0.05	----	----	----	



## Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP02_0.9-1.0	TP03_0-0.1	TP03_0.4-0.5	TP03_0.9-1.0	TP04_0-0.1
Sampling date / time				04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00	
Compound	CAS Number	LOR	Unit	EM2601781-006	EM2601781-007	EM2601781-008	EM2601781-009	EM2601781-010	
				Result	Result	Result	Result	Result	
<b>EP068A: Organochlorine Pesticides (OC) - Continued</b>									
Methoxychlor	72-43-5	0.2	mg/kg	----	<0.2	----	----	----	
Mirex	2385-85-5	0.20	mg/kg	----	<0.20	----	----	----	
<sup>^</sup> Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	----	<0.05	----	----	----	
<sup>^</sup> Sum of DDD + DDE + DDT	72-54-8/72-55-9/5 0-2	0.05	mg/kg	----	<0.05	----	----	----	
<b>EP068B: Organophosphorus Pesticides (OP)</b>									
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	----	----	----	
<b>EP068C: Triazines</b>									
Atrazine	1912-24-9	0.05	mg/kg	----	<0.05	----	----	----	



## Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP02_0.9-1.0	TP03_0-0.1	TP03_0.4-0.5	TP03_0.9-1.0	TP04_0-0.1
Sampling date / time				04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00	
Compound	CAS Number	LOR	Unit	EM2601781-006	EM2601781-007	EM2601781-008	EM2601781-009	EM2601781-010	
				Result	Result	Result	Result	Result	
<b>EP068D: Pyrethroids</b>									
Bifenthrin	82657-04-3	0.05	mg/kg	----	<0.05	----	----	----	
<b>EP075(SIM)A: Phenolic Compounds</b>									
Phenol	108-95-2	0.5	mg/kg	----	<0.5	----	----	----	
2-Chlorophenol	95-57-8	0.5	mg/kg	----	<0.5	----	----	----	
2-Methylphenol	95-48-7	0.5	mg/kg	----	<0.5	----	----	----	
3- & 4-Methylphenol	1319-77-3	1	mg/kg	----	<1	----	----	----	
2-Nitrophenol	88-75-5	0.5	mg/kg	----	<0.5	----	----	----	
2.4-Dimethylphenol	105-67-9	0.5	mg/kg	----	<0.5	----	----	----	
2.4-Dichlorophenol	120-83-2	0.5	mg/kg	----	<0.5	----	----	----	
2.6-Dichlorophenol	87-65-0	0.5	mg/kg	----	<0.5	----	----	----	
4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg	----	<0.5	----	----	----	
2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg	----	<0.5	----	----	----	
2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg	----	<0.5	----	----	----	
Pentachlorophenol	87-86-5	2	mg/kg	----	<2	----	----	----	
<b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons</b>									
Naphthalene	91-20-3	0.5	mg/kg	----	<0.5	<0.5	----	<0.5	
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	



## Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP02_0.9-1.0	TP03_0-0.1	TP03_0.4-0.5	TP03_0.9-1.0	TP04_0-0.1
Sampling date / time				04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00
Compound	CAS Number	LOR	Unit	EM2601781-006	EM2601781-007	EM2601781-008	EM2601781-009	EM2601781-010	
				Result	Result	Result	Result	Result	
<b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued</b>									
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	----	<b>0.6</b>	<b>0.6</b>	----	<b>0.6</b>	
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	----	<b>1.2</b>	<b>1.2</b>	----	<b>1.2</b>	
<b>EP080/071: Total Petroleum Hydrocarbons</b>									
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	
<b>EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions</b>									
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	
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	----	<50	<50	----	<50	
<b>EP080: BTEXN</b>									
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	



## Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP02_0.9-1.0	TP03_0-0.1	TP03_0.4-0.5	TP03_0.9-1.0	TP04_0-0.1
Sampling date / time				04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00	
Compound	CAS Number	LOR	Unit	EM2601781-006	EM2601781-007	EM2601781-008	EM2601781-009	EM2601781-010	
				Result	Result	Result	Result	Result	
<b>EP080: BTEXN - Continued</b>									
meta- & para-Xylene	108-38-3 106-42-3	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	
^ Sum of BTEX	----	0.2	mg/kg	----	<0.2	<0.2	----	<0.2	
^ Total Xylenes	----	0.5	mg/kg	----	<0.5	<0.5	----	<0.5	
Naphthalene	91-20-3	1	mg/kg	----	<1	<1	----	<1	
<b>EP066S: PCB Surrogate</b>									
Decachlorobiphenyl	2051-24-3	0.1	%	----	87.2	----	----	----	
<b>EP068S: Organochlorine Pesticide Surrogate</b>									
Dibromo-DDE	21655-73-2	0.05	%	----	76.9	----	----	----	
<b>EP068T: Organophosphorus Pesticide Surrogate</b>									
DEF	78-48-8	0.05	%	----	87.9	----	----	----	
<b>EP075(SIM)S: Phenolic Compound Surrogates</b>									
Phenol-d6	13127-88-3	0.5	%	----	77.2	87.2	----	84.2	
2-Chlorophenol-D4	93951-73-6	0.5	%	----	81.8	91.4	----	88.4	
2.4.6-Tribromophenol	118-79-6	0.5	%	----	80.1	79.6	----	78.2	
<b>EP075(SIM)T: PAH Surrogates</b>									
2-Fluorobiphenyl	321-60-8	0.5	%	----	93.7	95.9	----	92.7	
Anthracene-d10	1719-06-8	0.5	%	----	92.8	95.8	----	93.3	
4-Terphenyl-d14	1718-51-0	0.5	%	----	106	110	----	107	
<b>EP080S: TPH(V)/BTEX Surrogates</b>									
1.2-Dichloroethane-D4	17060-07-0	0.2	%	----	87.4	86.5	----	88.2	
Toluene-D8	2037-26-5	0.2	%	----	90.0	89.2	----	89.6	
4-Bromofluorobenzene	460-00-4	0.2	%	----	111	107	----	113	



## Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP04_0.4-0.5	TP04_0.9-1.0	TP05_0-0.1	TP05_0.2-0.3	TP05_0.4-0.5
Sampling date / time				04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00	
Compound	CAS Number	LOR	Unit	EM2601781-011	EM2601781-012	EM2601781-013	EM2601781-014	EM2601781-015	
				Result	Result	Result	Result	Result	
<b>EA055: Moisture Content (Dried @ 105-110°C)</b>									
Moisture Content	----	1.0	%	<b>22.9</b>	<b>19.3</b>	<b>1.8</b>	<b>12.0</b>	<b>16.5</b>	
<b>EA200: AS 4964 - 2004 Identification of Asbestos in Soils</b>									
Asbestos Detected	1332-21-4	0.1	g/kg	----	----	No	----	----	
Asbestos (Trace)	1332-21-4	-	-	----	----	No	----	----	
Asbestos Type	1332-21-4	-	--	----	----	-	----	----	
Synthetic Mineral Fibre	----	-	--	----	----	No	----	----	
Organic Fibre	----	-	--	----	----	No	----	----	
Sample weight (dry)	----	0.01	g	----	----	<b>1280</b>	----	----	
APPROVED IDENTIFIER:	----	-	--	----	----	<b>T. KUO</b>	----	----	
<b>EG005(ED093)T: Total Metals by ICP-AES</b>									
Arsenic	7440-38-2	5	mg/kg	<5	<5	<5	<5	<5	
Barium	7440-39-3	10	mg/kg	----	<b>10</b>	----	----	<10	
Beryllium	7440-41-7	1	mg/kg	----	<1	----	----	<1	
Boron	7440-42-8	50	mg/kg	----	<50	----	----	<50	
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1	
Chromium	7440-47-3	2	mg/kg	<b>27</b>	<b>21</b>	<b>3</b>	<b>2</b>	<b>6</b>	
Cobalt	7440-48-4	2	mg/kg	----	<2	----	----	<2	
Manganese	7439-96-5	5	mg/kg	----	<5	----	----	<5	
Selenium	7782-49-2	5	mg/kg	----	<5	----	----	<5	
Vanadium	7440-62-2	5	mg/kg	----	<b>70</b>	----	----	<b>19</b>	
Zinc	7440-66-6	5	mg/kg	<b>11</b>	<5	<b>21</b>	<b>10</b>	<5	
Copper	7440-50-8	5	mg/kg	<5	<5	<b>65</b>	<5	<5	
Lead	7439-92-1	5	mg/kg	<b>8</b>	<b>7</b>	<b>6</b>	<b>50</b>	<5	
Nickel	7440-02-0	2	mg/kg	<b>3</b>	<b>3</b>	<b>14</b>	<2	<b>2</b>	
<b>EG035T: Total Recoverable Mercury by FIMS</b>									
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<b>0.1</b>	<0.1	
<b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons</b>									



## Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP04_0.4-0.5	TP04_0.9-1.0	TP05_0-0.1	TP05_0.2-0.3	TP05_0.4-0.5
Sampling date / time				04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00	
Compound	CAS Number	LOR	Unit	EM2601781-011	EM2601781-012	EM2601781-013	EM2601781-014	EM2601781-015	
				Result	Result	Result	Result	Result	
<b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued</b>									
Naphthalene	91-20-3	0.5	mg/kg	<0.5	----	<0.5	<0.5	----	
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	----	
Benzo(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	<b>0.6</b>	----	<b>0.6</b>	<b>0.6</b>	----	
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	<b>1.2</b>	----	<b>1.2</b>	<b>1.2</b>	----	
<b>EP080/071: Total Petroleum Hydrocarbons</b>									
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	----	
<b>EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions</b>									



## Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP04_0.4-0.5	TP04_0.9-1.0	TP05_0-0.1	TP05_0.2-0.3	TP05_0.4-0.5
Sampling date / time				04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00	
Compound	CAS Number	LOR	Unit	EM2601781-011	EM2601781-012	EM2601781-013	EM2601781-014	EM2601781-015	
				Result	Result	Result	Result	Result	
<b>EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued</b>									
C6 - C10 Fraction	C6_C10	10	mg/kg	<10	----	<10	<10	----	
<sup>^</sup> 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	----	
<sup>^</sup> >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	----	<50	<50	----	
<sup>^</sup> >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	----	<50	<50	----	
<b>EP080: BTEXN</b>									
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	----	
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	----	<0.5	<0.5	----	
<sup>^</sup> Sum of BTEX	----	0.2	mg/kg	<0.2	----	<0.2	<0.2	----	
<sup>^</sup> Total Xylenes	----	0.5	mg/kg	<0.5	----	<0.5	<0.5	----	
Naphthalene	91-20-3	1	mg/kg	<1	----	<1	<1	----	
<b>EP075(SIM)S: Phenolic Compound Surrogates</b>									
Phenol-d6	13127-88-3	0.5	%	80.4	----	83.3	82.2	----	
2-Chlorophenol-D4	93951-73-6	0.5	%	87.0	----	86.6	85.2	----	
2,4,6-Tribromophenol	118-79-6	0.5	%	78.2	----	74.8	79.7	----	
<b>EP075(SIM)T: PAH Surrogates</b>									
2-Fluorobiphenyl	321-60-8	0.5	%	92.0	----	94.5	93.1	----	
Anthracene-d10	1719-06-8	0.5	%	92.9	----	93.9	94.6	----	
4-Terphenyl-d14	1718-51-0	0.5	%	103	----	101	107	----	
<b>EP080S: TPH(V)/BTEX Surrogates</b>									
1,2-Dichloroethane-D4	17060-07-0	0.2	%	87.8	----	92.2	85.2	----	



### Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP04_0.4-0.5	TP04_0.9-1.0	TP05_0-0.1	TP05_0.2-0.3	TP05_0.4-0.5
Sampling date / time				04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00
Compound	CAS Number	LOR	Unit	EM2601781-011	EM2601781-012	EM2601781-013	EM2601781-014	EM2601781-015	
				Result	Result	Result	Result	Result	
<b>EP080S: TPH(V)/BTEX Surrogates - Continued</b>									
<b>Toluene-D8</b>	2037-26-5	0.2	%	<b>91.2</b>	----	<b>94.5</b>	<b>88.4</b>	----	
<b>4-Bromofluorobenzene</b>	460-00-4	0.2	%	<b>114</b>	----	<b>112</b>	<b>108</b>	----	



## Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP05_0.9-1.0	BH01_0-0.1	BH01_0.1-0.2	BH02_0-0.1	BH02_0.1-0.2
Sampling date / time				04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00	
Compound	CAS Number	LOR	Unit	EM2601781-016	EM2601781-017	EM2601781-018	EM2601781-019	EM2601781-020	
				Result	Result	Result	Result	Result	
<b>EA055: Moisture Content (Dried @ 105-110°C)</b>									
Moisture Content	----	1.0	%	22.1	6.0	5.0	7.1	6.1	
<b>EG005(ED093)T: Total Metals by ICP-AES</b>									
Arsenic	7440-38-2	5	mg/kg	<5	<5	<5	<5	<5	
Barium	7440-39-3	10	mg/kg	10	----	20	----	40	
Beryllium	7440-41-7	1	mg/kg	<1	----	<1	----	<1	
Boron	7440-42-8	50	mg/kg	<50	----	<50	----	<50	
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1	
Chromium	7440-47-3	2	mg/kg	19	4	4	7	7	
Cobalt	7440-48-4	2	mg/kg	<2	----	<2	----	<2	
Manganese	7439-96-5	5	mg/kg	<5	----	11	----	109	
Selenium	7782-49-2	5	mg/kg	<5	----	<5	----	<5	
Vanadium	7440-62-2	5	mg/kg	47	----	13	----	43	
Zinc	7440-66-6	5	mg/kg	<5	20	17	110	58	
Copper	7440-50-8	5	mg/kg	<5	<5	<5	25	13	
Lead	7439-92-1	5	mg/kg	6	20	17	73	40	
Nickel	7440-02-0	2	mg/kg	3	<2	<2	3	3	
<b>EG035T: Total Recoverable Mercury by FIMS</b>									
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	
<b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons</b>									
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	----	



## Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP05_0.9-1.0	BH01_0-0.1	BH01_0.1-0.2	BH02_0-0.1	BH02_0.1-0.2
Sampling date / time				04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00	
Compound	CAS Number	LOR	Unit	EM2601781-016	EM2601781-017	EM2601781-018	EM2601781-019	EM2601781-020	
				Result	Result	Result	Result	Result	
<b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued</b>									
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	----	<b>0.6</b>	----	<b>0.6</b>	----	
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	----	<b>1.2</b>	----	<b>1.2</b>	----	
<b>EP080/071: Total Petroleum Hydrocarbons</b>									
C6 - C9 Fraction	----	10	mg/kg	----	<10	----	<10	----	
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	----	
<b>EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions</b>									
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	----	<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	----	



## Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP05_0.9-1.0	BH01_0-0.1	BH01_0.1-0.2	BH02_0-0.1	BH02_0.1-0.2
Sampling date / time				04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00	
Compound	CAS Number	LOR	Unit	EM2601781-016	EM2601781-017	EM2601781-018	EM2601781-019	EM2601781-020	
				Result	Result	Result	Result	Result	
<b>EP080: BTEXN</b>									
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	----	
ortho-Xylene	95-47-6	0.5	mg/kg	----	<0.5	----	<0.5	----	
^ Sum of BTEX	----	0.2	mg/kg	----	<0.2	----	<0.2	----	
^ Total Xylenes	----	0.5	mg/kg	----	<0.5	----	<0.5	----	
Naphthalene	91-20-3	1	mg/kg	----	<1	----	<1	----	
<b>EP231A: Perfluoroalkyl Sulfonic Acids</b>									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	----	<0.0002	----	----	----	
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	----	<0.0002	----	----	----	
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	----	<0.0002	----	----	----	
<b>EP231B: Perfluoroalkyl Carboxylic Acids</b>									
Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	----	<0.001	----	----	----	
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	----	<0.0002	----	----	----	
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	----	<0.0002	----	----	----	
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	----	<0.0002	----	----	----	
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	----	<0.0002	----	----	----	
<b>EP231D: (n:2) Fluorotelomer Sulfonic Acids</b>									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	----	<0.0005	----	----	----	
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	----	<0.0005	----	----	----	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	----	<0.0005	----	----	----	
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	----	<0.0005	----	----	----	
<b>EP231P: PFAS Sums</b>									



## Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP05_0.9-1.0	BH01_0-0.1	BH01_0.1-0.2	BH02_0-0.1	BH02_0.1-0.2
Sampling date / time				04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00	
Compound	CAS Number	LOR	Unit	EM2601781-016	EM2601781-017	EM2601781-018	EM2601781-019	EM2601781-020	
				Result	Result	Result	Result	Result	
<b>EP231P: PFAS Sums - Continued</b>									
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	----	<0.0002	----	----	----	
Sum of PFAS (WA DER List)	----	0.0002	mg/kg	----	<0.0002	----	----	----	
<b>EP075(SIM)S: Phenolic Compound Surrogates</b>									
Phenol-d6	13127-88-3	0.5	%	----	86.6	----	82.9	----	
2-Chlorophenol-D4	93951-73-6	0.5	%	----	90.0	----	86.0	----	
2,4,6-Tribromophenol	118-79-6	0.5	%	----	87.9	----	79.6	----	
<b>EP075(SIM)T: PAH Surrogates</b>									
2-Fluorobiphenyl	321-60-8	0.5	%	----	97.5	----	93.5	----	
Anthracene-d10	1719-06-8	0.5	%	----	96.4	----	93.6	----	
4-Terphenyl-d14	1718-51-0	0.5	%	----	110	----	105	----	
<b>EP080S: TPH(V)/BTEX Surrogates</b>									
1,2-Dichloroethane-D4	17060-07-0	0.2	%	----	79.2	----	86.8	----	
Toluene-D8	2037-26-5	0.2	%	----	83.0	----	91.8	----	
4-Bromofluorobenzene	460-00-4	0.2	%	----	107	----	111	----	
<b>EP231S: PFAS Surrogate</b>									
13C4-PFOS	----	0.0002	%	----	106	----	----	----	
13C8-PFOA	----	0.0002	%	----	98.8	----	----	----	



## Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BH03_0-0.1	BH03_0.1-0.2	QC01	----	----
Sampling date / time				04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00	----	----	
Compound	CAS Number	LOR	Unit	EM2601781-021	EM2601781-022	EM2601781-023	-----	-----	
				Result	Result	Result	----	----	
<b>EA055: Moisture Content (Dried @ 105-110°C)</b>									
Moisture Content	----	1.0	%	<b>7.7</b>	<b>5.6</b>	<b>4.5</b>	----	----	
<b>EG005(ED093)T: Total Metals by ICP-AES</b>									
Arsenic	7440-38-2	5	mg/kg	<5	<5	<5	----	----	
Barium	7440-39-3	10	mg/kg	----	<b>30</b>	----	----	----	
Beryllium	7440-41-7	1	mg/kg	----	<1	----	----	----	
Boron	7440-42-8	50	mg/kg	----	<50	----	----	----	
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	----	----	
Chromium	7440-47-3	2	mg/kg	<b>8</b>	<b>6</b>	<b>5</b>	----	----	
Cobalt	7440-48-4	2	mg/kg	----	<2	----	----	----	
Manganese	7439-96-5	5	mg/kg	----	<b>82</b>	----	----	----	
Selenium	7782-49-2	5	mg/kg	----	<5	----	----	----	
Vanadium	7440-62-2	5	mg/kg	----	<b>16</b>	----	----	----	
Zinc	7440-66-6	5	mg/kg	<b>55</b>	<b>41</b>	<b>36</b>	----	----	
Copper	7440-50-8	5	mg/kg	<b>8</b>	<b>6</b>	<b>66</b>	----	----	
Lead	7439-92-1	5	mg/kg	<b>37</b>	<b>32</b>	<b>11</b>	----	----	
Nickel	7440-02-0	2	mg/kg	<b>3</b>	<b>2</b>	<b>15</b>	----	----	
<b>EG035T: Total Recoverable Mercury by FIMS</b>									
Mercury	7439-97-6	0.1	mg/kg	<b>0.1</b>	<b>0.1</b>	<0.1	----	----	
<b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons</b>									
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	----	----	



## Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BH03_0-0.1	BH03_0.1-0.2	QC01	----	----
Sampling date / time				04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00	----	----	
Compound	CAS Number	LOR	Unit	EM2601781-021	EM2601781-022	EM2601781-023	-----	-----	
				Result	Result	Result	----	----	
<b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued</b>									
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	<b>0.6</b>	----	<b>0.6</b>	----	----	
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	<b>1.2</b>	----	<b>1.2</b>	----	----	
<b>EP080/071: Total Petroleum Hydrocarbons</b>									
C6 - C9 Fraction	----	10	mg/kg	<10	----	<10	----	----	
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	----	----	
<b>EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions</b>									
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	----	<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	----	----	



## Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BH03_0-0.1	BH03_0.1-0.2	QC01	----	----
Sampling date / time				04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00	----	----	
Compound	CAS Number	LOR	Unit	EM2601781-021	EM2601781-022	EM2601781-023	-----	-----	
				Result	Result	Result	----	----	
<b>EP080: BTEXN</b>									
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	----	----	
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	----	<0.5	----	----	
^ Sum of BTEX	----	0.2	mg/kg	<0.2	----	<0.2	----	----	
^ Total Xylenes	----	0.5	mg/kg	<0.5	----	<0.5	----	----	
Naphthalene	91-20-3	1	mg/kg	<1	----	<1	----	----	
<b>EP231A: Perfluoroalkyl Sulfonic Acids</b>									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	----	----	----	----	
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	----	----	----	----	
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<b>0.0006</b>	----	----	----	----	
<b>EP231B: Perfluoroalkyl Carboxylic Acids</b>									
Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	----	----	----	----	
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	----	----	----	----	
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	----	----	----	----	
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	----	----	----	----	
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	----	----	----	----	
<b>EP231D: (n:2) Fluorotelomer Sulfonic Acids</b>									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	----	----	----	----	
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	----	----	----	----	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	----	----	----	----	
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	----	----	----	----	
<b>EP231P: PFAS Sums</b>									



## Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BH03_0-0.1	BH03_0.1-0.2	QC01	----	----
Sampling date / time				04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00	----	----	
Compound	CAS Number	LOR	Unit	EM2601781-021	EM2601781-022	EM2601781-023	-----	-----	
				Result	Result	Result	----	----	
<b>EP231P: PFAS Sums - Continued</b>									
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	<b>0.0006</b>	----	----	----	----	
Sum of PFAS (WA DER List)	----	0.0002	mg/kg	<b>0.0006</b>	----	----	----	----	
<b>EP075(SIM)S: Phenolic Compound Surrogates</b>									
Phenol-d6	13127-88-3	0.5	%	<b>83.0</b>	----	<b>81.8</b>	----	----	
2-Chlorophenol-D4	93951-73-6	0.5	%	<b>88.2</b>	----	<b>84.2</b>	----	----	
2,4,6-Tribromophenol	118-79-6	0.5	%	<b>84.4</b>	----	<b>74.1</b>	----	----	
<b>EP075(SIM)T: PAH Surrogates</b>									
2-Fluorobiphenyl	321-60-8	0.5	%	<b>93.6</b>	----	<b>89.7</b>	----	----	
Anthracene-d10	1719-06-8	0.5	%	<b>92.7</b>	----	<b>91.2</b>	----	----	
4-Terphenyl-d14	1718-51-0	0.5	%	<b>103</b>	----	<b>101</b>	----	----	
<b>EP080S: TPH(V)/BTEX Surrogates</b>									
1,2-Dichloroethane-D4	17060-07-0	0.2	%	<b>81.8</b>	----	<b>87.7</b>	----	----	
Toluene-D8	2037-26-5	0.2	%	<b>83.8</b>	----	<b>90.6</b>	----	----	
4-Bromofluorobenzene	460-00-4	0.2	%	<b>108</b>	----	<b>114</b>	----	----	
<b>EP231S: PFAS Surrogate</b>									
13C4-PFOS	----	0.0002	%	<b>108</b>	----	----	----	----	
13C8-PFOA	----	0.0002	%	<b>97.4</b>	----	----	----	----	



## Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	RB01	----	----	----	----
Sampling date / time				04-Feb-2026 00:00	----	----	----	----	----
Compound	CAS Number	LOR	Unit	EM2601781-024	-----	-----	-----	-----	-----
				Result	---	---	---	---	---
<b>EG020T: Total Metals by ICP-MS</b>									
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	----	----	----	----	----
<b>EG035T: Total Recoverable Mercury by FIMS</b>									
Mercury	7439-97-6	0.0001	mg/L	<0.0001	----	----	----	----	----
<b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons</b>									
Naphthalene	91-20-3	1.0	µg/L	<1.0	----	----	----	----	----
Acenaphthylene	208-96-8	1.0	µg/L	<1.0	----	----	----	----	----
Acenaphthene	83-32-9	1.0	µg/L	<1.0	----	----	----	----	----
Fluorene	86-73-7	1.0	µg/L	<1.0	----	----	----	----	----
Phenanthrene	85-01-8	1.0	µg/L	<1.0	----	----	----	----	----
Anthracene	120-12-7	1.0	µg/L	<1.0	----	----	----	----	----
Fluoranthene	206-44-0	1.0	µg/L	<1.0	----	----	----	----	----
Pyrene	129-00-0	1.0	µg/L	<1.0	----	----	----	----	----
Benz(a)anthracene	56-55-3	1.0	µg/L	<1.0	----	----	----	----	----
Chrysene	218-01-9	1.0	µg/L	<1.0	----	----	----	----	----
Benzo(b+j)fluoranthene	205-99-2 205-82-3	1.0	µg/L	<1.0	----	----	----	----	----
Benzo(k)fluoranthene	207-08-9	1.0	µg/L	<1.0	----	----	----	----	----
Benzo(a)pyrene	50-32-8	0.5	µg/L	<0.5	----	----	----	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	1.0	µg/L	<1.0	----	----	----	----	----
Dibenz(a,h)anthracene	53-70-3	1.0	µg/L	<1.0	----	----	----	----	----
Benzo(g,h,i)perylene	191-24-2	1.0	µg/L	<1.0	----	----	----	----	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	µg/L	<0.5	----	----	----	----	----



## Analytical Results

Sub-Matrix: WATER (Matrix: WATER)		Sample ID	RB01		----	----	----	----
Sampling date / time		04-Feb-2026 00:00		----	----	----	----	
Compound	CAS Number	LOR	Unit	EM2601781-024	-----	-----	-----	-----
				Result	---	---	---	---
<b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued</b>								
^ Benzo(a)pyrene TEQ (zero)	----	0.5	µg/L	<0.5	----	----	----	----
<b>EP080/071: Total Petroleum Hydrocarbons</b>								
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	----	----	----	----
<b>EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions</b>								
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	----	----	----	----
<b>EP080: BTEXN</b>								
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	----	----	----	----
Naphthalene	91-20-3	5	µg/L	<5	----	----	----	----
<b>EP075(SIM)S: Phenolic Compound Surrogates</b>								
Phenol-d6	13127-88-3	1.0	%	27.7	----	----	----	----



## Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	RB01	----	----	----	----
Sampling date / time				04-Feb-2026 00:00	----	----	----	----	
Compound	CAS Number	LOR	Unit	EM2601781-024	-----	-----	-----	-----	
				Result	---	---	---	---	
<b>EP075(SIM)S: Phenolic Compound Surrogates - Continued</b>									
2-Chlorophenol-D4	93951-73-6	1.0	%	<b>33.9</b>	----	----	----	----	
2.4.6-Tribromophenol	118-79-6	1.0	%	<b>47.4</b>	----	----	----	----	
<b>EP075(SIM)T: PAH Surrogates</b>									
2-Fluorobiphenyl	321-60-8	1.0	%	<b>72.3</b>	----	----	----	----	
Anthracene-d10	1719-06-8	1.0	%	<b>77.8</b>	----	----	----	----	
4-Terphenyl-d14	1718-51-0	1.0	%	<b>73.1</b>	----	----	----	----	
<b>EP080S: TPH(V)/BTEX Surrogates</b>									
1.2-Dichloroethane-D4	17060-07-0	2	%	<b>103</b>	----	----	----	----	
Toluene-D8	2037-26-5	2	%	<b>95.5</b>	----	----	----	----	
4-Bromofluorobenzene	460-00-4	2	%	<b>109</b>	----	----	----	----	

## Analytical Results

### Descriptive Results

Sub-Matrix: SOIL		
Method: Compound	Sample ID - Sampling date / time	Analytical Results
<b>EA200: AS 4964 - 2004 Identification of Asbestos in Soils</b>		
EA200: Description	TP01_0-0.1 - 04-Feb-2026 00:00	Brown rocky soil.
EA200: Description	TP02_0-0.1 - 04-Feb-2026 00:00	Brown rocky soil with orgnaic matter.
EA200: Description	TP03_0-0.1 - 04-Feb-2026 00:00	Brown soil with rock and orgnaic matter.
EA200: Description	TP04_0-0.1 - 04-Feb-2026 00:00	Brown soil with rock and orgnaic matter.
EA200: Description	TP05_0-0.1 - 04-Feb-2026 00:00	Grey rocky soil.



## Surrogate Control Limits

Sub-Matrix: SOIL		Recovery Limits (%)	
Compound	CAS Number	Low	High
<b>EP066S: PCB Surrogate</b>			
Decachlorobiphenyl	2051-24-3	36	140
<b>EP068S: Organochlorine Pesticide Surrogate</b>			
Dibromo-DDE	21655-73-2	62	128
<b>EP068T: Organophosphorus Pesticide Surrogate</b>			
DEF	78-48-8	40	139
<b>EP075(SIM)S: Phenolic Compound Surrogates</b>			
Phenol-d6	13127-88-3	54	125
2-Chlorophenol-D4	93951-73-6	65	123
2,4,6-Tribromophenol	118-79-6	34	122
<b>EP075(SIM)T: PAH Surrogates</b>			
2-Fluorobiphenyl	321-60-8	61	125
Anthracene-d10	1719-06-8	62	130
4-Terphenyl-d14	1718-51-0	67	133
<b>EP080S: TPH(V)/BTEX Surrogates</b>			
1,2-Dichloroethane-D4	17060-07-0	51	125
Toluene-D8	2037-26-5	55	125
4-Bromofluorobenzene	460-00-4	56	124
<b>EP231S: PFAS Surrogate</b>			
13C4-PFOS	----	68	136
13C8-PFOA	----	69	133

Sub-Matrix: WATER		Recovery Limits (%)	
Compound	CAS Number	Low	High
<b>EP075(SIM)S: Phenolic Compound Surrogates</b>			
Phenol-d6	13127-88-3	10	51
2-Chlorophenol-D4	93951-73-6	30	114
2,4,6-Tribromophenol	118-79-6	26	133
<b>EP075(SIM)T: PAH Surrogates</b>			
2-Fluorobiphenyl	321-60-8	35	127
Anthracene-d10	1719-06-8	44	122
4-Terphenyl-d14	1718-51-0	44	124
<b>EP080S: TPH(V)/BTEX Surrogates</b>			
1,2-Dichloroethane-D4	17060-07-0	73	129
Toluene-D8	2037-26-5	70	125
4-Bromofluorobenzene	460-00-4	71	129



## CERTIFICATE OF ANALYSIS

Work Order	: <b>EM2602666</b>	Page	: 1 of 4
Client	: <b>ELGIN ASSOCIATES PTY LTD</b>	Laboratory	: Environmental Division Melbourne
Contact	: SOPHIE LE ROUX	Contact	: Peter Ravlic
Address	: 28 Letitia St North Hobart 7000	Address	: 4 Westall Rd Springvale VIC Australia 3171
Telephone	: ----	Telephone	: +6138549 9645
Project	: 1686 Channel Highway	Date Samples Received	: 18-Feb-2026 13:05
Order number	: JN26714	Date Analysis Commenced	: 18-Feb-2026
C-O-C number	: ----	Issue Date	: 23-Feb-2026 12:43
Sampler	: Hudson Trigg		
Site	: ----		
Quote number	: EN/000		
No. of samples received	: 5		
No. of samples analysed	: 3		



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
Nikki Stepniewski	Senior Inorganic Instrument Chemist	Melbourne Inorganics, Springvale, VIC
Xing Lin	Senior Organic Chemist	Melbourne Organics, Springvale, VIC

right solutions. right partner.



## 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 Contract 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.

- 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 or as per USEPA 1633 limits where listed. 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 and also conform to QSM 5.4 (US DoD) requirements.



## Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	TP01_0-0.1	TP02_0-0.1	TP03_0-0.1	----	----
Sampling date / time				04-Feb-2026 00:00	04-Feb-2026 00:00	04-Feb-2026 00:00	----	----	
Compound	CAS Number	LOR	Unit	EM2602666-001	EM2602666-002	EM2602666-003	-----	-----	
				Result	Result	Result	----	----	
<b>EA055: Moisture Content (Dried @ 105-110°C)</b>									
Moisture Content	----	0.1	%	<b>3.8</b>	<b>4.2</b>	<b>4.0</b>	----	----	
<b>EP231A: Perfluoroalkyl Sulfonic Acids</b>									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	<0.0002	<0.0002	----	----	
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	<0.0002	<0.0002	----	----	
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<b>0.0002</b>	<0.0002	<0.0002	----	----	
<b>EP231B: Perfluoroalkyl Carboxylic Acids</b>									
Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	<0.001	<0.001	----	----	
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	<0.0002	<0.0002	----	----	
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	<0.0002	<0.0002	----	----	
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	<0.0002	<0.0002	----	----	
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	<0.0002	<0.0002	----	----	
<b>EP231D: (n:2) Fluorotelomer Sulfonic Acids</b>									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	<0.0005	<0.0005	----	----	
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	<0.0005	<0.0005	----	----	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	<0.0005	<0.0005	----	----	
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	<0.0005	<0.0005	----	----	
<b>EP231P: PFAS Sums</b>									
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	<b>0.0002</b>	<0.0002	<0.0002	----	----	
Sum of PFAS (WA DER List)	----	0.0002	mg/kg	<b>0.0002</b>	<0.0002	<0.0002	----	----	
<b>EP231S: PFAS Surrogate</b>									
13C4-PFOS	----	0.0002	%	<b>102</b>	<b>100</b>	<b>121</b>	----	----	
13C8-PFOA	----	0.0002	%	<b>95.0</b>	<b>106</b>	<b>94.6</b>	----	----	



### Surrogate Control Limits

Sub-Matrix: SOIL		Recovery Limits (%)	
Compound	CAS Number	Low	High
<b>EP231S: PFAS Surrogate</b>			
13C4-PFOS	----	68	136
13C8-PFOA	----	69	133



## QUALITY CONTROL REPORT

Work Order	: EM2601781	Page	: 1 of 21
Client	: ELGIN ASSOCIATES PTY LTD	Laboratory	: Environmental Division Melbourne
Contact	: SOPHIE LE ROUX	Contact	: Peter Ravlic
Address	: 28 Letitia St North Hobart 7000	Address	: 4 Westall Rd Springvale VIC Australia 3171
Telephone	: ----	Telephone	: +6138549 9645
Project	: 1686 Channel Highway	Date Samples Received	: 05-Feb-2026
Order number	: JN26714	Date Analysis Commenced	: 06-Feb-2026
C-O-C number	: ----	Issue Date	: 11-Feb-2026
Sampler	: Hudson Trigg		
Site	: ----		
Quote number	: EN/000		
No. of samples received	: 24		
No. of samples analysed	: 24		



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
Dilani Fernando	Laboratory Coordinator	Melbourne Inorganics, Springvale, VIC
Eric Chau	Metals Team Leader	Melbourne Inorganics, Springvale, VIC
Nancy Wang	2IC Organic Chemist	Melbourne Inorganics, Springvale, VIC
Nancy Wang	2IC Organic Chemist	Melbourne Organics, Springvale, VIC
Sanjay Parekh	LCMS Coordinator	Melbourne Organics, Springvale, VIC
Tim Kuo	Approved Asbestos Identifier	Melbourne Asbestos, Springvale, VIC



## 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  
 \* = The final LOR has been raised due to dilution or other sample specific cause; adjusted LOR is shown in brackets. The duplicate ranges for Acceptable RPD% are applied to the final LOR where applicable.

## 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 (%)
<b>EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 7181261)</b>									
EM2601569-001	Anonymous	EG005T: Lead	7439-92-1	5	mg/kg	27	35	26.9	No Limit
EM2601729-007	Anonymous	EG005T: Chromium	7440-47-3	2	mg/kg	35	33	7.6	0% - 50%
		EG005T: Nickel	7440-02-0	2	mg/kg	76	71	6.4	0% - 20%
EM2601569-001	Anonymous	EG005T: Beryllium	7440-41-7	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Barium	7440-39-3	10	mg/kg	40	40	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	10	10	0.0	No Limit
		EG005T: Cobalt	7440-48-4	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	4	3	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	6	5	0.0	No Limit
		EG005T: Manganese	7439-96-5	5	mg/kg	99	89	10.6	0% - 50%
		EG005T: Selenium	7782-49-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Vanadium	7440-62-2	5	mg/kg	8	8	0.0	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	56	51	8.6	0% - 50%
		EG005T: Boron	7440-42-8	50	mg/kg	<50	<50	0.0	No Limit
EM2601729-007	Anonymous	EG005T: Beryllium	7440-41-7	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Barium	7440-39-3	10	mg/kg	80	100	15.4	No Limit
		EG005T: Cobalt	7440-48-4	2	mg/kg	19	21	12.2	0% - 50%
		EG005T: Arsenic	7440-38-2	5	mg/kg	<5	<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 (%)
<b>EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 7181261) - continued</b>									
EM2601729-007	Anonymous	EG005T: Copper	7440-50-8	5	mg/kg	25	30	18.7	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	79	87	10.5	0% - 50%
		EG005T: Manganese	7439-96-5	5	mg/kg	335	375	11.2	0% - 20%
		EG005T: Selenium	7782-49-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Vanadium	7440-62-2	5	mg/kg	39	41	5.8	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	177	203	13.5	0% - 20%
		EG005T: Boron	7440-42-8	50	mg/kg	<50	<50	0.0	No Limit
<b>EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 7181264)</b>									
EM2601781-006	TP02_0.9-1.0	EG005T: Beryllium	7440-41-7	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Barium	7440-39-3	10	mg/kg	20	10	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	35	38	8.8	0% - 50%
		EG005T: Cobalt	7440-48-4	2	mg/kg	3	3	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	5	5	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	7	0.0	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	12	12	0.0	No Limit
		EG005T: Manganese	7439-96-5	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Selenium	7782-49-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Vanadium	7440-62-2	5	mg/kg	94	103	9.0	0% - 20%
		EG005T: Zinc	7440-66-6	5	mg/kg	8	8	0.0	No Limit
		EG005T: Boron	7440-42-8	50	mg/kg	<50	<50	0.0	No Limit
EM2601781-015	TP05_0.4-0.5	EG005T: Beryllium	7440-41-7	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Barium	7440-39-3	10	mg/kg	<10	<10	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	6	4	45.5	No Limit
		EG005T: Cobalt	7440-48-4	2	mg/kg	<2	<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: Manganese	7439-96-5	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Selenium	7782-49-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Vanadium	7440-62-2	5	mg/kg	19	12	45.8	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Boron	7440-42-8	50	mg/kg	<50	<50	0.0	No Limit
<b>EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 7182432)</b>									



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 (%)
<b>EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 7182432) - continued</b>									
EM2601568-002	Anonymous	EA055: Moisture Content	----	0.1	%	2.2	2.0	8.0	0% - 20%
EM2601568-014	Anonymous	EA055: Moisture Content	----	0.1	%	1.7	1.6	9.1	0% - 50%
<b>EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 7182433)</b>									
EM2601781-005	TP02_0.5-0.6	EA055: Moisture Content	----	0.1 (1.0)*	%	25.5	26.0	1.9	0% - 20%
EM2601781-015	TP05_0.4-0.5	EA055: Moisture Content	----	0.1 (1.0)*	%	16.5	16.9	2.1	0% - 50%
<b>EG035T: Total Recoverable Mercury by FIMS (QC Lot: 7181263)</b>									
EM2601569-001	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EM2601729-007	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
<b>EG035T: Total Recoverable Mercury by FIMS (QC Lot: 7181265)</b>									
EM2601781-006	TP02_0.9-1.0	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EM2601781-015	TP05_0.4-0.5	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
<b>EG048: Hexavalent Chromium (Alkaline Digest) (QC Lot: 7185150)</b>									
EM2601569-001	Anonymous	EG048G: Hexavalent Chromium	18540-29-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EM2601756-022	Anonymous	EG048G: Hexavalent Chromium	18540-29-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
<b>EK028SF: Weak Acid Dissociable CN by Segmented Flow Analyser (QC Lot: 7186666)</b>									
EM2601781-001	TP01_0-0.1	EK028SF: Weak Acid Dissociable Cyanide	----	1	mg/kg	<1	<1	0.0	No Limit
<b>EP066: Polychlorinated Biphenyls (PCB) (QC Lot: 7181164)</b>									
EM2601569-001	Anonymous	EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
<b>EP068A: Organochlorine Pesticides (OC) (QC Lot: 7181165)</b>									
EM2601569-001	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 - (Lindane)	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



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 (%)
<b>EP068A: Organochlorine Pesticides (OC) (QC Lot: 7181165) - continued</b>									
EM2601569-001	Anonymous	EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Mirex	2385-85-5	0.05 (0.20)*	mg/kg	<0.20	<0.20	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
<b>EP068B: Organophosphorus Pesticides (OP) (QC Lot: 7181165)</b>									
EM2601569-001	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		
<b>EP068C: Triazines (QC Lot: 7181165)</b>									
EM2601569-001	Anonymous	EP068: Atrazine	1912-24-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
<b>EP068D: Pyrethroids (QC Lot: 7181165)</b>									
EM2601569-001	Anonymous	EP068: Bifenthrin	82657-04-3	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
<b>EP075(SIM)A: Phenolic Compounds (QC Lot: 7181166)</b>									
EM2601781-011	TP04_0.4-0.5	EP075(SIM): Phenol	108-95-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): 2-Chlorophenol	95-57-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): 2-Methylphenol	95-48-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): 2-Nitrophenol	88-75-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): 2.4-Dimethylphenol	105-67-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): 2.4-Dichlorophenol	120-83-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): 2.6-Dichlorophenol	87-65-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): 4-Chloro-3-methylphenol	59-50-7	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 (%)
<b>EP075(SIM)A: Phenolic Compounds (QC Lot: 7181166) - continued</b>									
EM2601781-011	TP04_0.4-0.5	EP075(SIM): 2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): 2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): 3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	<1	0.0	No Limit
		EP075(SIM): Pentachlorophenol	87-86-5	2	mg/kg	<2	<2	0.0	No Limit
EM2601569-001	Anonymous	EP075(SIM): Phenol	108-95-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): 2-Chlorophenol	95-57-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): 2-Methylphenol	95-48-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): 2-Nitrophenol	88-75-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): 2.4-Dimethylphenol	105-67-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): 2.4-Dichlorophenol	120-83-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): 2.6-Dichlorophenol	87-65-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): 4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): 2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): 2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): 3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	<1	0.0	No Limit
		EP075(SIM): Pentachlorophenol	87-86-5	2	mg/kg	<2	<2	0.0	No Limit
<b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 7181166)</b>									
EM2601781-011	TP04_0.4-0.5	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	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
		EM2601569-001	Anonymous	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5
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 (%)
<b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 7181166) - continued</b>									
EM2601569-001	Anonymous	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	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
<b>EP080/071: Total Petroleum Hydrocarbons (QC Lot: 7180974)</b>									
EM2601781-001	TP01_0-0.1	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
EM2601781-017	BH01_0-0.1	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
<b>EP080/071: Total Petroleum Hydrocarbons (QC Lot: 7181167)</b>									
EM2601781-011	TP04_0.4-0.5	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
EM2601569-001	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
<b>EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 7180974)</b>									
EM2601781-001	TP01_0-0.1	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
EM2601781-017	BH01_0-0.1	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
<b>EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 7181167)</b>									
EM2601781-011	TP04_0.4-0.5	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
EM2601569-001	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
<b>EP080: BTEXN (QC Lot: 7180974)</b>									
EM2601781-001	TP01_0-0.1	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



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 (%)
<b>EP080: BTEXN (QC Lot: 7180974) - continued</b>									
EM2601781-001	TP01_0-0.1	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
EM2601781-017	BH01_0-0.1	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
		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
<b>EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 7181238)</b>									
EM2601729-002	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002 (0.0010)*	mg/kg	<0.0010	<0.0010	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002 (0.0020)*	mg/kg	<0.0020	<0.0020	0.0	No Limit
EM2601781-017	BH01_0-0.1	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	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: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
<b>EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 7181238)</b>									
EM2601729-002	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 (0.0010)*	mg/kg	<0.0010	<0.0010	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	<0.001	0.0	No Limit
EM2601781-017	BH01_0-0.1	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: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	<0.001	0.0	No Limit
<b>EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 7181238)</b>									
EM2601729-002	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



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 (%)
<b>EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 7181238) - continued</b>									
EM2601729-002	Anonymous	EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
EM2601781-017	BH01_0-0.1	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
<b>EP231P: PFAS Sums (QC Lot: 7181238)</b>									
EM2601729-002	Anonymous	EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Sum of PFAS (WA DER List)	----	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
EM2601781-017	BH01_0-0.1	EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Sum of PFAS (WA DER List)	----	0.0002	mg/kg	<0.0002	<0.0002	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 (%)
<b>EG020T: Total Metals by ICP-MS (QC Lot: 7189748)</b>									
EM2601580-001	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	<0.001	<0.001	0.0	No Limit
		EG020A-T: Chromium	7440-47-3	0.001	mg/L	0.003	<0.001	90.3	No Limit
		EG020A-T: Copper	7440-50-8	0.001	mg/L	0.019	0.018	0.0	0% - 50%
		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	0.010	0.009	0.0	No Limit
		EG020A-T: Zinc	7440-66-6	0.005	mg/L	0.031	0.027	11.6	No Limit
		<b>EG035T: Total Recoverable Mercury by FIMS (QC Lot: 7184117)</b>							
EM2601779-009	Anonymous	EG035T: Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
<b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 7180637)</b>									
EM2601756-033	Anonymous	EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Naphthalene	91-20-3	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Anthracene	120-12-7	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Fluoranthene	206-44-0	1	µg/L	<1.0	<1.0	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 (%)
<b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 7180637) - continued</b>									
EM2601756-033	Anonymous	EP075(SIM): Pyrene	129-00-0	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Chrysene	218-01-9	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Dibenz(a,h)anthracene	53-70-3	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Benzo(g,h,i)perylene	191-24-2	1	µg/L	<1.0	<1.0	0.0	No Limit
EM2601788-003	Anonymous	EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Naphthalene	91-20-3	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Anthracene	120-12-7	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Fluoranthene	206-44-0	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Pyrene	129-00-0	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Chrysene	218-01-9	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	1	µg/L	<1.0	<1.0	0.0	No Limit
EP075(SIM): Dibenz(a,h)anthracene	53-70-3	1	µg/L	<1.0	<1.0	0.0	No Limit		
EP075(SIM): Benzo(g,h,i)perylene	191-24-2	1	µg/L	<1.0	<1.0	0.0	No Limit		
<b>EP080/071: Total Petroleum Hydrocarbons (QC Lot: 7180638)</b>									
EM2601756-033	Anonymous	EP071: C15 - C28 Fraction	----	100	µg/L	<100	<100	0.0	No Limit
		EP071: C10 - C14 Fraction	----	50	µg/L	<50	<50	0.0	No Limit
		EP071: C29 - C36 Fraction	----	50	µg/L	<50	<50	0.0	No Limit
EM2601788-003	Anonymous	EP071: C15 - C28 Fraction	----	100	µg/L	1080	890	19.4	0% - 50%
		EP071: C10 - C14 Fraction	----	50	µg/L	190	150	25.8	No Limit
		EP071: C29 - C36 Fraction	----	50	µg/L	160	150	11.6	No Limit
<b>EP080/071: Total Petroleum Hydrocarbons (QC Lot: 7185731)</b>									
EM2601580-001	Anonymous	EP080: C6 - C9 Fraction	----	20	µg/L	<20	<20	0.0	No Limit
<b>EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 7180638)</b>									
EM2601756-033	Anonymous	EP071: >C10 - C16 Fraction	----	100	µg/L	<100	<100	0.0	No Limit
		EP071: >C16 - C34 Fraction	----	100	µg/L	<100	<100	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 (%)	
<b>EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 7180638) - continued</b>										
EM2601756-033	Anonymous	EP071: >C34 - C40 Fraction	----	100	µg/L	<100	<100	0.0	No Limit	
EM2601788-003	Anonymous	EP071: >C10 - C16 Fraction	----	100	µg/L	440	340	25.9	No Limit	
		EP071: >C16 - C34 Fraction	----	100	µg/L	950	800	16.8	No Limit	
		EP071: >C34 - C40 Fraction	----	100	µg/L	<100	<100	0.0	No Limit	
<b>EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 7185731)</b>										
EM2601580-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	<20	0.0	No Limit	
<b>EP080: BTEXN (QC Lot: 7185731)</b>										
EM2601580-001	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	2	µg/L	<2	<2	0.0	No Limit	
			106-42-3							
		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: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report Result	Laboratory Control Spike (LCS) Report			
					Spike Concentration	Spike Recovery (%) LCS	Acceptable Limits (%)	
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 7181261)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	43 mg/kg	91.8	70.0	130
EG005T: Barium	7440-39-3	10	mg/kg	<10	324 mg/kg	96.0	70.0	130
EG005T: Beryllium	7440-41-7	1	mg/kg	<1	----	----	----	----
EG005T: Boron	7440-42-8	50	mg/kg	<50	----	----	----	----
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	3 mg/kg	107	70.0	130
EG005T: Chromium	7440-47-3	2	mg/kg	<2	84 mg/kg	88.7	70.0	130
EG005T: Cobalt	7440-48-4	2	mg/kg	<2	14.8 mg/kg	96.6	70.0	130
EG005T: Copper	7440-50-8	5	mg/kg	<5	185 mg/kg	89.4	70.0	130
EG005T: Lead	7439-92-1	5	mg/kg	<5	153 mg/kg	95.8	70.0	130
EG005T: Manganese	7439-96-5	5	mg/kg	<5	644 mg/kg	99.7	70.0	130
EG005T: Nickel	7440-02-0	2	mg/kg	<2	55.9 mg/kg	92.9	70.0	130
EG005T: Selenium	7782-49-2	5	mg/kg	<5	----	----	----	----
EG005T: Vanadium	7440-62-2	5	mg/kg	<5	53.2 mg/kg	93.0	70.0	130
EG005T: Zinc	7440-66-6	5	mg/kg	<5	358 mg/kg	99.1	70.0	130
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 7181264)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	43 mg/kg	87.5	70.0	130
EG005T: Barium	7440-39-3	10	mg/kg	<10	324 mg/kg	92.2	70.0	130
EG005T: Beryllium	7440-41-7	1	mg/kg	<1	----	----	----	----
EG005T: Boron	7440-42-8	50	mg/kg	<50	----	----	----	----
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	3 mg/kg	102	70.0	130
EG005T: Chromium	7440-47-3	2	mg/kg	<2	84 mg/kg	85.7	70.0	130
EG005T: Cobalt	7440-48-4	2	mg/kg	<2	14.8 mg/kg	93.3	70.0	130
EG005T: Copper	7440-50-8	5	mg/kg	<5	185 mg/kg	86.2	70.0	130
EG005T: Lead	7439-92-1	5	mg/kg	<5	153 mg/kg	92.0	70.0	130
EG005T: Manganese	7439-96-5	5	mg/kg	<5	644 mg/kg	96.5	70.0	130
EG005T: Nickel	7440-02-0	2	mg/kg	<2	55.9 mg/kg	89.5	70.0	130
EG005T: Selenium	7782-49-2	5	mg/kg	<5	----	----	----	----
EG005T: Vanadium	7440-62-2	5	mg/kg	<5	53.2 mg/kg	89.7	70.0	130
EG005T: Zinc	7440-66-6	5	mg/kg	<5	358 mg/kg	95.6	70.0	130
EG035T: Total Recoverable Mercury by FIMS (QCLot: 7181263)								



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report Result	Laboratory Control Spike (LCS) Report			
					Spike Concentration	Spike Recovery (%)	Acceptable Limits (%)	
						LCS	Low	High
<b>EG035T: Total Recoverable Mercury by FIMS (QCLot: 7181263) - continued</b>								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.64 mg/kg	98.4	69.0	128
<b>EG035T: Total Recoverable Mercury by FIMS (QCLot: 7181265)</b>								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.64 mg/kg	99.2	69.0	128
<b>EG048: Hexavalent Chromium (Alkaline Digest) (QCLot: 7185150)</b>								
EG048G: Hexavalent Chromium	18540-29-9	0.5	mg/kg	<0.5	20 mg/kg	122	70.0	130
<b>EK028SF: Weak Acid Dissociable CN by Segmented Flow Analyser (QCLot: 7186666)</b>								
EK028SF: Weak Acid Dissociable Cyanide	----	1	mg/kg	<1	20 mg/kg	106	70.0	130
<b>EP066: Polychlorinated Biphenyls (PCB) (QCLot: 7181164)</b>								
EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	1 mg/kg	99.6	68.0	133
<b>EP068A: Organochlorine Pesticides (OC) (QCLot: 7181165)</b>								
EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	0.5 mg/kg	84.2	71.8	126
EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	0.5 mg/kg	93.7	72.2	125
EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	0.5 mg/kg	83.6	70.0	124
EP068: gamma-BHC - (Lindane)	58-89-9	0.05	mg/kg	<0.05	0.5 mg/kg	86.7	69.1	124
EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	87.2	69.2	125
EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	0.5 mg/kg	90.5	66.6	122
EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	0.5 mg/kg	93.6	68.8	123
EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	0.5 mg/kg	75.4	67.2	124
EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	0.5 mg/kg	78.0	66.0	126
EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	0.5 mg/kg	81.0	70.2	126
EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	0.5 mg/kg	80.1	72.1	124
EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	0.5 mg/kg	90.0	68.0	122
EP068: 4,4'-DDE	72-55-9	0.05	mg/kg	<0.05	0.5 mg/kg	95.2	68.9	124
EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	0.5 mg/kg	87.0	55.8	130
EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	0.5 mg/kg	84.9	67.9	124
EP068: 4,4'-DDD	72-54-8	0.05	mg/kg	<0.05	0.5 mg/kg	97.5	72.0	127
EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	0.5 mg/kg	72.5	66.3	131
EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	0.5 mg/kg	95.8	62.4	131
EP068: 4,4'-DDT	50-29-3	0.2	mg/kg	<0.2	0.5 mg/kg	88.0	55.4	130
EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	0.5 mg/kg	80.7	68.8	128
EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	0.5 mg/kg	79.3	55.5	132
EP068: Mirex	2385-85-5	0.05	mg/kg	<0.05	0.5 mg/kg	100	92.4	102
<b>EP068B: Organophosphorus Pesticides (OP) (QCLot: 7181165)</b>								
EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	0.5 mg/kg	99.5	65.6	127



Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike	Spike Recovery (%)		Acceptable Limits (%)	
					Concentration	LCS	Low	High	
<b>EP068B: Organophosphorus Pesticides (OP) (QCLot: 7181165) - continued</b>									
EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	111	63.0	129	
EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	0.5 mg/kg	56.7	10.0	136	
EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	0.5 mg/kg	107	58.3	128	
EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	0.5 mg/kg	83.7	69.0	122	
EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	0.5 mg/kg	85.7	68.0	122	
EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	0.5 mg/kg	88.1	59.6	124	
EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	0.5 mg/kg	80.6	63.8	128	
EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	0.5 mg/kg	90.5	71.1	124	
EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	0.5 mg/kg	84.5	67.4	126	
EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	0.5 mg/kg	69.2	57.9	122	
EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	0.5 mg/kg	80.3	66.2	123	
EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	0.5 mg/kg	75.1	59.8	123	
EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	0.5 mg/kg	78.0	65.4	127	
EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	0.5 mg/kg	70.0	52.1	128	
EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	0.5 mg/kg	86.9	65.2	122	
EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	0.5 mg/kg	89.9	63.2	124	
EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	0.5 mg/kg	92.4	65.9	127	
EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	0.5 mg/kg	69.7	43.1	131	
<b>EP068C: Triazines (QCLot: 7181165)</b>									
EP068: Atrazine	1912-24-9	0.05	mg/kg	<0.05	0.5 mg/kg	87.2	72.5	126	
<b>EP068D: Pyrethroids (QCLot: 7181165)</b>									
EP068: Bifenthrin	82657-04-3	0.05	mg/kg	<0.05	0.5 mg/kg	87.8	67.9	128	
<b>EP075(SIM)A: Phenolic Compounds (QCLot: 7181166)</b>									
EP075(SIM): Phenol	108-95-2	0.5	mg/kg	<0.5	3 mg/kg	100	81.2	121	
EP075(SIM): 2-Chlorophenol	95-57-8	0.5	mg/kg	<0.5	3 mg/kg	104	83.2	120	
EP075(SIM): 2-Methylphenol	95-48-7	0.5	mg/kg	<0.5	3 mg/kg	103	81.6	123	
EP075(SIM): 3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	6 mg/kg	102	79.7	129	
EP075(SIM): 2-Nitrophenol	88-75-5	0.5	mg/kg	<0.5	3 mg/kg	93.3	49.8	129	
EP075(SIM): 2,4-Dimethylphenol	105-67-9	0.5	mg/kg	<0.5	3 mg/kg	101	81.5	127	
EP075(SIM): 2,4-Dichlorophenol	120-83-2	0.5	mg/kg	<0.5	3 mg/kg	106	74.2	125	
EP075(SIM): 2,6-Dichlorophenol	87-65-0	0.5	mg/kg	<0.5	3 mg/kg	108	79.8	121	
EP075(SIM): 4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg	<0.5	3 mg/kg	100	71.5	121	
EP075(SIM): 2,4,6-Trichlorophenol	88-06-2	0.5	mg/kg	<0.5	3 mg/kg	108	67.8	119	
EP075(SIM): 2,4,5-Trichlorophenol	95-95-4	0.5	mg/kg	<0.5	3 mg/kg	101	64.5	126	



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	
<b>EP075(SIM)A: Phenolic Compounds (QCLot: 7181166) - continued</b>								
EP075(SIM): Pentachlorophenol	87-86-5	2	mg/kg	<2	6 mg/kg	77.4	10.0	118
<b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 7181166)</b>								
EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	3 mg/kg	101	85.7	123
EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	3 mg/kg	99.9	81.0	123
EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	3 mg/kg	99.4	83.6	120
EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	3 mg/kg	99.0	81.3	126
EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	3 mg/kg	103	79.4	123
EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	3 mg/kg	106	81.7	127
EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	3 mg/kg	106	78.3	124
EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	3 mg/kg	105	79.9	128
EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	3 mg/kg	104	76.9	123
EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	3 mg/kg	102	80.9	130
EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	3 mg/kg	105	70.0	121
EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	3 mg/kg	106	80.4	130
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	3 mg/kg	103	70.2	123
EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	3 mg/kg	89.7	67.9	122
EP075(SIM): Dibenz(a,h)anthracene	53-70-3	0.5	mg/kg	<0.5	3 mg/kg	89.5	65.8	123
EP075(SIM): Benzo(g,h,i)perylene	191-24-2	0.5	mg/kg	<0.5	3 mg/kg	89.6	65.8	127
<b>EP080/071: Total Petroleum Hydrocarbons (QCLot: 7180974)</b>								
EP080: C6 - C9 Fraction	----	10	mg/kg	<10	36 mg/kg	97.5	58.6	131
<b>EP080/071: Total Petroleum Hydrocarbons (QCLot: 7181167)</b>								
EP071: C10 - C14 Fraction	----	50	mg/kg	<50	750 mg/kg	105	80.0	120
EP071: C15 - C28 Fraction	----	100	mg/kg	<100	2640 mg/kg	107	80.0	120
EP071: C29 - C36 Fraction	----	100	mg/kg	<100	1350 mg/kg	111	80.0	120
<b>EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 7180974)</b>								
EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	45 mg/kg	93.4	59.3	128
<b>EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 7181167)</b>								
EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	1030 mg/kg	104	80.0	120
EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	3500 mg/kg	109	80.0	120
EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	250 mg/kg	115	80.0	120
<b>EP080: BTEXN (QCLot: 7180974)</b>								
EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	2 mg/kg	91.1	61.6	117
EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	2 mg/kg	95.7	65.8	125



Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report Result	Laboratory Control Spike (LCS) Report				
					Spike Concentration	Spike Recovery (%)		Acceptable Limits (%)	
						LCS	Low	High	High
<b>EP080: BTEXN (QCLot: 7180974) - continued</b>									
EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	2 mg/kg	94.1	65.8	124	
EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	4 mg/kg	103	64.8	134	
EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	2 mg/kg	103	68.7	132	
EP080: Naphthalene	91-20-3	1	mg/kg	<1	0.5 mg/kg	107	61.8	123	
<b>EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 7181238)</b>									
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	0.00111 mg/kg	91.9	72.0	128	
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	0.00114 mg/kg	88.2	67.0	130	
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	0.00116 mg/kg	84.5	68.0	136	
<b>EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 7181238)</b>									
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	0.00625 mg/kg	93.8	71.0	135	
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	0.00125 mg/kg	97.0	69.0	132	
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	94.9	70.0	132	
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	92.6	71.0	131	
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	92.5	69.0	133	
<b>EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 7181238)</b>									
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	0.00117 mg/kg	101	62.0	145	
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	0.00119 mg/kg	98.4	64.0	140	
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	0.0012 mg/kg	98.3	65.0	137	
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	0.00121 mg/kg	100	70.0	130	
<b>EP231P: PFAS Sums (QCLot: 7181238)</b>									
EP231X: Sum of PFHxS and PFOS	355-46-4/17 63-23-1	0.0002	mg/kg	<0.0002	----	----	----	----	
EP231X: Sum of PFAS (WA DER List)	----	0.0002	mg/kg	<0.0002	----	----	----	----	

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report Result	Laboratory Control Spike (LCS) Report				
					Spike Concentration	Spike Recovery (%)		Acceptable Limits (%)	
						LCS	Low	High	High
<b>EG020T: Total Metals by ICP-MS (QCLot: 7189748)</b>									
EG020A-T: Arsenic	7440-38-2	0.001	mg/L	<0.001	0.1 mg/L	109	89.2	110	
EG020A-T: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	0.1 mg/L	108	86.4	115	
EG020A-T: Chromium	7440-47-3	0.001	mg/L	<0.001	0.1 mg/L	106	89.0	112	
EG020A-T: Copper	7440-50-8	0.001	mg/L	<0.001	0.1 mg/L	106	88.3	111	
EG020A-T: Lead	7439-92-1	0.001	mg/L	<0.001	0.1 mg/L	108	88.3	112	
EG020A-T: Nickel	7440-02-0	0.001	mg/L	<0.001	0.1 mg/L	105	88.8	113	
EG020A-T: Zinc	7440-66-6	0.005	mg/L	<0.005	0.1 mg/L	114	90.0	115	



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	
<b>EG035T: Total Recoverable Mercury by FIMS (QCLot: 7184117)</b>								
EG035T: Mercury	7439-97-6	0.0001	mg/L	<0.0001	0.01 mg/L	101	73.4	119
<b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 7180637)</b>								
EP075(SIM): Naphthalene	91-20-3	1	µg/L	<1.0	5 µg/L	62.9	42.8	114
EP075(SIM): Acenaphthylene	208-96-8	1	µg/L	<1.0	5 µg/L	71.6	48.6	119
EP075(SIM): Acenaphthene	83-32-9	1	µg/L	<1.0	5 µg/L	72.7	47.0	117
EP075(SIM): Fluorene	86-73-7	1	µg/L	<1.0	5 µg/L	77.9	49.5	119
EP075(SIM): Phenanthrene	85-01-8	1	µg/L	<1.0	5 µg/L	88.3	49.4	121
EP075(SIM): Anthracene	120-12-7	1	µg/L	<1.0	5 µg/L	86.9	48.4	122
EP075(SIM): Fluoranthene	206-44-0	1	µg/L	<1.0	5 µg/L	91.4	50.3	124
EP075(SIM): Pyrene	129-00-0	1	µg/L	<1.0	5 µg/L	92.4	50.0	126
EP075(SIM): Benz(a)anthracene	56-55-3	1	µg/L	<1.0	5 µg/L	90.9	49.4	127
EP075(SIM): Chrysene	218-01-9	1	µg/L	<1.0	5 µg/L	90.7	48.7	126
EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	1	µg/L	<1.0	5 µg/L	94.5	54.5	134
EP075(SIM): Benzo(k)fluoranthene	207-08-9	1	µg/L	<1.0	5 µg/L	94.4	56.1	134
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	µg/L	<0.5	5 µg/L	94.6	55.6	135
EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	1	µg/L	<1.0	5 µg/L	92.4	54.4	126
EP075(SIM): Dibenz(a,h)anthracene	53-70-3	1	µg/L	<1.0	5 µg/L	95.6	54.5	126
EP075(SIM): Benzo(g,h,i)perylene	191-24-2	1	µg/L	<1.0	5 µg/L	82.2	54.4	126
<b>EP080/071: Total Petroleum Hydrocarbons (QCLot: 7180638)</b>								
EP071: C10 - C14 Fraction	----	50	µg/L	<50	4421 µg/L	91.2	47.2	122
EP071: C15 - C28 Fraction	----	100	µg/L	<100	15219 µg/L	102	52.9	131
EP071: C29 - C36 Fraction	----	50	µg/L	<50	7904 µg/L	101	50.4	127
<b>EP080/071: Total Petroleum Hydrocarbons (QCLot: 7185731)</b>								
EP080: C6 - C9 Fraction	----	20	µg/L	<20	360 µg/L	115	66.2	134
<b>EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 7180638)</b>								
EP071: >C10 - C16 Fraction	----	100	µg/L	<100	6085 µg/L	89.7	49.1	125
EP071: >C16 - C34 Fraction	----	100	µg/L	<100	20300 µg/L	102	51.6	128
EP071: >C34 - C40 Fraction	----	100	µg/L	<100	1456 µg/L	107	47.2	130
<b>EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 7185731)</b>								
EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	450 µg/L	112	66.2	132
<b>EP080: BTEXN (QCLot: 7185731)</b>								
EP080: Benzene	71-43-2	1	µg/L	<1	20 µg/L	110	68.8	127
EP080: Toluene	108-88-3	2	µg/L	<2	20 µg/L	115	72.9	129



Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report Result	Laboratory Control Spike (LCS) Report			
					Spike Concentration	Spike Recovery (%)	Acceptable Limits (%)	
						LCS	Low	High
<b>EP080: BTEXN (QCLot: 7185731) - continued</b>								
EP080: Ethylbenzene	100-41-4	2	µg/L	<2	20 µg/L	113	71.7	130
EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	40 µg/L	117	72.3	136
EP080: ortho-Xylene	95-47-6	2	µg/L	<2	20 µg/L	117	75.9	134
EP080: Naphthalene	91-20-3	5	µg/L	<5	5 µg/L	131	68.3	131

### 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	Spike Recovery (%) MS	Acceptable Limits (%)		
							Low	High
<b>EG005(ED093)T: Total Metals by ICP-AES (QCLot: 7181261)</b>								
EM2601569-003	Anonymous	EG005T: Lead	7439-92-1	250 mg/kg	# 125	80.0	120	
EM2601569-003	Anonymous	EG005T: Arsenic	7440-38-2	50 mg/kg	102	78.0	124	
		EG005T: Cadmium	7440-43-9	50 mg/kg	102	79.7	116	
		EG005T: Chromium	7440-47-3	50 mg/kg	99.9	79.0	121	
		EG005T: Copper	7440-50-8	250 mg/kg	97.4	80.0	120	
		EG005T: Nickel	7440-02-0	50 mg/kg	99.6	78.0	120	
		EG005T: Zinc	7440-66-6	250 mg/kg	101	80.0	120	
<b>EG005(ED093)T: Total Metals by ICP-AES (QCLot: 7181264)</b>								
EM2601781-007	TP03_0-0.1	EG005T: Arsenic	7440-38-2	50 mg/kg	96.1	78.0	124	
		EG005T: Cadmium	7440-43-9	50 mg/kg	96.2	79.7	116	
		EG005T: Chromium	7440-47-3	50 mg/kg	93.7	79.0	121	
		EG005T: Copper	7440-50-8	250 mg/kg	95.7	80.0	120	
		EG005T: Lead	7439-92-1	250 mg/kg	95.5	80.0	120	
		EG005T: Nickel	7440-02-0	50 mg/kg	91.8	78.0	120	
		EG005T: Zinc	7440-66-6	250 mg/kg	91.3	80.0	120	
<b>EG035T: Total Recoverable Mercury by FIMS (QCLot: 7181263)</b>								
EM2601569-003	Anonymous	EG035T: Mercury	7439-97-6	0.5 mg/kg	93.2	70.0	130	
<b>EG035T: Total Recoverable Mercury by FIMS (QCLot: 7181265)</b>								
EM2601781-007	TP03_0-0.1	EG035T: Mercury	7439-97-6	0.5 mg/kg	113	70.0	130	
<b>EG048: Hexavalent Chromium (Alkaline Digest) (QCLot: 7185150)</b>								
EM2601569-003	Anonymous	EG048G: Hexavalent Chromium	18540-29-9	20 mg/kg	# 33.8	58.0	114	
EM2601569-003	Anonymous	EG048G: Hexavalent Chromium	18540-29-9	20 mg/kg	# 34.2	58.0	114	
<b>EK028SF: Weak Acid Dissociable CN by Segmented Flow Analyser (QCLot: 7186666)</b>								



Sub-Matrix: SOIL

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
<b>EK028SF: Weak Acid Dissociable CN by Segmented Flow Analyser (QCLot: 7186666) - continued</b>							
EM2601781-004	TP02_0-0.1	EK028SF: Weak Acid Dissociable Cyanide	----	20 mg/kg	87.4	70.0	130
<b>EP066: Polychlorinated Biphenyls (PCB) (QCLot: 7181164)</b>							
EM2601569-003	Anonymous	EP066: Total Polychlorinated biphenyls	----	1 mg/kg	111	63.2	144
<b>EP068A: Organochlorine Pesticides (OC) (QCLot: 7181165)</b>							
EM2601569-003	Anonymous	EP068: gamma-BHC - (Lindane)	58-89-9	0.5 mg/kg	108	51.4	139
		EP068: Heptachlor	76-44-8	0.5 mg/kg	104	49.1	130
		EP068: Aldrin	309-00-2	0.5 mg/kg	109	38.4	135
		EP068: Dieldrin	60-57-1	0.5 mg/kg	109	58.4	136
		EP068: Endrin	72-20-8	0.5 mg/kg	112	33.0	146
		EP068: 4.4'-DDT	50-29-3	0.5 mg/kg	99.7	20.0	133
<b>EP068B: Organophosphorus Pesticides (OP) (QCLot: 7181165)</b>							
EM2601569-003	Anonymous	EP068: Diazinon	333-41-5	0.5 mg/kg	101	65.1	135
		EP068: Chlorpyrifos-methyl	5598-13-0	0.5 mg/kg	94.3	56.3	127
		EP068: Pirimphos-ethyl	23505-41-1	0.5 mg/kg	89.7	55.0	133
		EP068: Bromophos-ethyl	4824-78-6	0.5 mg/kg	96.3	55.1	133
		EP068: Prothiofos	34643-46-4	0.5 mg/kg	105	43.8	128
<b>EP075(SIM)A: Phenolic Compounds (QCLot: 7181166)</b>							
EM2601569-005	Anonymous	EP075(SIM): Phenol	108-95-2	3 mg/kg	96.1	77.1	119
		EP075(SIM): 2-Chlorophenol	95-57-8	3 mg/kg	106	78.9	123
		EP075(SIM): 2-Nitrophenol	88-75-5	3 mg/kg	82.6	43.8	136
		EP075(SIM): 4-Chloro-3-methylphenol	59-50-7	3 mg/kg	97.9	61.5	120
		EP075(SIM): Pentachlorophenol	87-86-5	3 mg/kg	68.4	15.3	139
<b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 7181166)</b>							
EM2601569-005	Anonymous	EP075(SIM): Acenaphthene	83-32-9	3 mg/kg	99.1	77.2	116
		EP075(SIM): Pyrene	129-00-0	3 mg/kg	103	65.5	136
<b>EP080/071: Total Petroleum Hydrocarbons (QCLot: 7180974)</b>							
EM2601781-002	TP01_0.4-0.5	EP080: C6 - C9 Fraction	----	28 mg/kg	54.5	33.4	124
<b>EP080/071: Total Petroleum Hydrocarbons (QCLot: 7181167)</b>							
EM2601569-005	Anonymous	EP071: C10 - C14 Fraction	----	750 mg/kg	101	70.0	130
		EP071: C15 - C28 Fraction	----	2640 mg/kg	104	70.0	130
		EP071: C29 - C36 Fraction	----	1350 mg/kg	107	70.0	130
<b>EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 7180974)</b>							
EM2601781-002	TP01_0.4-0.5	EP080: C6 - C10 Fraction	C6_C10	33 mg/kg	54.6	30.8	120
<b>EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 7181167)</b>							
EM2601569-005	Anonymous	EP071: >C10 - C16 Fraction	----	1030 mg/kg	100	70.0	130
		EP071: >C16 - C34 Fraction	----	3500 mg/kg	105	70.0	130



Sub-Matrix: **SOIL**

				Matrix Spike (MS) Report			
				Spike Concentration	SpikeRecovery(%) MS	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
<b>EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 7181167) - continued</b>							
EM2601569-005	Anonymous	EP071: >C34 - C40 Fraction	----	250 mg/kg	111	70.0	130
<b>EP080: BTEXN (QCLot: 7180974)</b>							
EM2601781-002	TP01_0.4-0.5	EP080: Benzene	71-43-2	2 mg/kg	65.8	54.4	127
		EP080: Toluene	108-88-3	2 mg/kg	71.9	57.1	131
<b>EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 7181238)</b>							
EM2601737-018	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.00111 mg/kg	104	72.0	128
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.00114 mg/kg	89.8	67.0	130
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.00116 mg/kg	79.9	68.0	136
<b>EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 7181238)</b>							
EM2601737-018	Anonymous	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.00625 mg/kg	101	71.0	135
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.00125 mg/kg	95.4	69.0	132
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.00125 mg/kg	91.2	70.0	132
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.00125 mg/kg	92.0	71.0	131
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.00125 mg/kg	93.0	69.0	133
<b>EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 7181238)</b>							
EM2601737-018	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.00117 mg/kg	95.5	62.0	145
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.00119 mg/kg	90.8	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0012 mg/kg	99.8	65.0	137
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.00121 mg/kg	108	70.0	130

Sub-Matrix: **WATER**

				Matrix Spike (MS) Report			
				Spike Concentration	SpikeRecovery(%) MS	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
<b>EG020T: Total Metals by ICP-MS (QCLot: 7189748)</b>							
EM2601580-001	Anonymous	EG020A-T: Arsenic	7440-38-2	1 mg/L	111	82.0	123
		EG020A-T: Cadmium	7440-43-9	0.25 mg/L	105	81.8	123
		EG020A-T: Chromium	7440-47-3	1 mg/L	108	78.9	119
		EG020A-T: Copper	7440-50-8	1 mg/L	106	80.4	118
		EG020A-T: Lead	7439-92-1	1 mg/L	105	80.5	121
		EG020A-T: Nickel	7440-02-0	1 mg/L	107	80.0	118
		EG020A-T: Zinc	7440-66-6	1 mg/L	107	74.0	120
<b>EG035T: Total Recoverable Mercury by FIMS (QCLot: 7184117)</b>							
EM2601781-024	RB01	EG035T: Mercury	7439-97-6	0.01 mg/L	97.2	70.0	130
<b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 7180637)</b>							
EM2601776-001	Anonymous	EP075(SIM): Acenaphthene	83-32-9	5 µg/L	83.8	39.3	123
		EP075(SIM): Pyrene	129-00-0	5 µg/L	82.9	44.0	124
<b>EP080/071: Total Petroleum Hydrocarbons (QCLot: 7180638)</b>							



Sub-Matrix: WATER				Matrix Spike (MS) Report			
				Spike Concentration	SpikeRecovery(%) MS	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
<b>EP080/071: Total Petroleum Hydrocarbons (QCLot: 7180638) - continued</b>							
EM2601776-002	Anonymous	EP071: C10 - C14 Fraction	----	4421 µg/L	76.7	48.0	126
		EP071: C15 - C28 Fraction	----	15219 µg/L	88.5	51.7	132
		EP071: C29 - C36 Fraction	----	7904 µg/L	91.1	50.5	127
<b>EP080/071: Total Petroleum Hydrocarbons (QCLot: 7185731)</b>							
EM2601649-103	Anonymous	EP080: C6 - C9 Fraction	----	280 µg/L	67.3	33.9	126
<b>EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 7180638)</b>							
EM2601776-002	Anonymous	EP071: >C10 - C16 Fraction	----	6085 µg/L	76.2	48.0	128
		EP071: >C16 - C34 Fraction	----	20300 µg/L	89.5	50.4	130
		EP071: >C34 - C40 Fraction	----	1456 µg/L	120	47.4	131
<b>EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 7185731)</b>							
EM2601649-103	Anonymous	EP080: C6 - C10 Fraction	C6_C10	330 µg/L	64.5	34.0	122
<b>EP080: BTEXN (QCLot: 7185731)</b>							
EM2601649-103	Anonymous	EP080: Benzene	71-43-2	20 µg/L	88.4	56.3	133
		EP080: Toluene	108-88-3	20 µg/L	90.0	60.4	132



## QA/QC Compliance Assessment to assist with Quality Review

Work Order	: EM2601781	Page	: 1 of 11
Client	: ELGIN ASSOCIATES PTY LTD	Laboratory	: Environmental Division Melbourne
Contact	: SOPHIE LE ROUX	Telephone	: +6138549 9645
Project	: 1686 Channel Highway	Date Samples Received	: 05-Feb-2026
Site	: ----	Issue Date	: 11-Feb-2026
Sampler	: Hudson Trigg	No. of samples received	: 24
Order number	: JN26714	No. of samples analysed	: 24

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.
- Matrix Spike outliers exist - please see following pages for full details.
- For all regular sample matrices, where applicable to the methodology, **NO** surrogate recovery outliers occur.

#### Outliers : Analysis Holding Time Compliance

- **NO** Analysis Holding Time Outliers exist.

#### Outliers : Frequency of Quality Control Samples

- **NO** Quality Control Sample Frequency Outliers exist.



**Outliers : Quality Control Samples**

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **SOIL**

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
<b>Matrix Spike (MS) Recoveries</b>							
EG005(ED093)T: Total Metals by ICP-AES	EM2601569--003	Anonymous	Lead	7439-92-1	125 %	80.0-120%	Recovery greater than upper data quality objective
EG048: Hexavalent Chromium (Alkaline Digest)	EM2601569--003	Anonymous	Hexavalent Chromium	18540-29-9	33.8 %	58.0-114%	Recovery less than lower data quality objective
EG048: Hexavalent Chromium (Alkaline Digest)	EM2601569--003	Anonymous	Hexavalent Chromium	18540-29-9	34.2 %	58.0-114%	Recovery less than lower data quality objective

**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	
<b>EA055: Moisture Content (Dried @ 105-110°C)</b>								
<b>Soil Glass Jar - Unpreserved (EA055)</b>								
TP01_0-0.1, TP01_0.9-1.0, TP02_0.5-0.6, TP03_0-0.1, TP03_0.9-1.0, TP04_0.4-0.5, TP05_0-0.1, TP05_0.4-0.5, BH01_0-0.1, BH02_0-0.1, BH03_0-0.1, QC01	TP01_0.4-0.5, TP02_0-0.1, TP02_0.9-1.0, TP03_0.4-0.5, TP04_0-0.1, TP04_0.9-1.0, TP05_0.2-0.3, TP05_0.9-1.0, BH01_0.1-0.2, BH02_0.1-0.2, BH03_0.1-0.2,	04-Feb-2026	----	----	----	06-Feb-2026	18-Feb-2026	✓
<b>EA200: AS 4964 - 2004 Identification of Asbestos in Soils</b>								
<b>Snap Lock Bag - Friable Asbestos/PSD Bag (EA200)</b>								
TP01_0-0.1, TP03_0-0.1, TP05_0-0.1	TP02_0-0.1, TP04_0-0.1,	04-Feb-2026	----	----	----	09-Feb-2026	03-Aug-2026	✓



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	
<b>EG005(ED093)T: Total Metals by ICP-AES</b>								
<b>Soil Glass Jar - Unpreserved (EG005T)</b>								
TP01_0-0.1, TP01_0.9-1.0, TP02_0.5-0.6, TP03_0-0.1, TP03_0.9-1.0, TP04_0.4-0.5, TP05_0-0.1, TP05_0.4-0.5, BH01_0-0.1, BH02_0-0.1, BH03_0-0.1, QC01	TP01_0.4-0.5, TP02_0-0.1, TP02_0.9-1.0, TP03_0.4-0.5, TP04_0-0.1, TP04_0.9-1.0, TP05_0.2-0.3, TP05_0.9-1.0, BH01_0.1-0.2, BH02_0.1-0.2, BH03_0.1-0.2, QC01	04-Feb-2026	09-Feb-2026	03-Aug-2026	✓	11-Feb-2026	03-Aug-2026	✓
<b>EG035T: Total Recoverable Mercury by FIMS</b>								
<b>Soil Glass Jar - Unpreserved (EG035T)</b>								
TP01_0-0.1, TP01_0.9-1.0, TP02_0.5-0.6, TP03_0-0.1, TP03_0.9-1.0, TP04_0.4-0.5, TP05_0-0.1, TP05_0.4-0.5, BH01_0-0.1, BH02_0-0.1, BH03_0-0.1, QC01	TP01_0.4-0.5, TP02_0-0.1, TP02_0.9-1.0, TP03_0.4-0.5, TP04_0-0.1, TP04_0.9-1.0, TP05_0.2-0.3, TP05_0.9-1.0, BH01_0.1-0.2, BH02_0.1-0.2, BH03_0.1-0.2, QC01	04-Feb-2026	09-Feb-2026	04-Mar-2026	✓	11-Feb-2026	04-Mar-2026	✓
<b>EG048: Hexavalent Chromium (Alkaline Digest)</b>								
<b>Soil Glass Jar - Unpreserved (EG048G)</b>								
TP01_0-0.1, TP03_0-0.1	TP02_0-0.1	04-Feb-2026	09-Feb-2026	04-Mar-2026	✓	10-Feb-2026	16-Feb-2026	✓
<b>EK028SF: Weak Acid Dissociable CN by Segmented Flow Analyser</b>								
<b>Soil Glass Jar - Unpreserved (EK028SF)</b>								
TP01_0-0.1, TP03_0-0.1	TP02_0-0.1	04-Feb-2026	09-Feb-2026	18-Feb-2026	✓	10-Feb-2026	23-Feb-2026	✓
<b>EP066: Polychlorinated Biphenyls (PCB)</b>								
<b>Soil Glass Jar - Unpreserved (EP066)</b>								
TP01_0-0.1, TP03_0-0.1	TP02_0-0.1	04-Feb-2026	09-Feb-2026	18-Feb-2026	✓	10-Feb-2026	21-Mar-2026	✓



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	
<b>EP068A: Organochlorine Pesticides (OC)</b>								
Soil Glass Jar - Unpreserved (EP068) TP01_0-0.1, TP03_0-0.1	TP02_0-0.1	04-Feb-2026	09-Feb-2026	18-Feb-2026	✔	10-Feb-2026	21-Mar-2026	✔
<b>EP068B: Organophosphorus Pesticides (OP)</b>								
Soil Glass Jar - Unpreserved (EP068) TP01_0-0.1, TP03_0-0.1	TP02_0-0.1	04-Feb-2026	09-Feb-2026	18-Feb-2026	✔	10-Feb-2026	21-Mar-2026	✔
<b>EP068C: Triazines</b>								
Soil Glass Jar - Unpreserved (EP068) TP01_0-0.1, TP03_0-0.1	TP02_0-0.1	04-Feb-2026	09-Feb-2026	18-Feb-2026	✔	10-Feb-2026	21-Mar-2026	✔
<b>EP068D: Pyrethroids</b>								
Soil Glass Jar - Unpreserved (EP068) TP01_0-0.1, TP03_0-0.1	TP02_0-0.1	04-Feb-2026	09-Feb-2026	18-Feb-2026	✔	10-Feb-2026	21-Mar-2026	✔
<b>EP075(SIM)A: Phenolic Compounds</b>								
Soil Glass Jar - Unpreserved (EP075(SIM)) TP01_0-0.1, TP03_0-0.1	TP02_0-0.1	04-Feb-2026	09-Feb-2026	18-Feb-2026	✔	10-Feb-2026	21-Mar-2026	✔
<b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons</b>								
Soil Glass Jar - Unpreserved (EP075(SIM)) TP01_0-0.1, TP02_0-0.1, TP03_0-0.1, TP04_0-0.1, TP05_0-0.1, BH01_0-0.1, BH03_0-0.1	TP01_0.4-0.5, TP02_0.5-0.6, TP03_0.4-0.5, TP04_0.4-0.5, TP05_0.2-0.3, BH02_0-0.1, QC01	04-Feb-2026	09-Feb-2026	18-Feb-2026	✔	10-Feb-2026	21-Mar-2026	✔



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
<b>EP080/071: Total Petroleum Hydrocarbons</b>							
<b>Soil Glass Jar - Unpreserved (EP080)</b> TP01_0-0.1, TP02_0-0.1, TP03_0-0.1, TP04_0-0.1, TP05_0-0.1, BH01_0-0.1, BH03_0-0.1, TP01_0.4-0.5, TP02_0.5-0.6, TP03_0.4-0.5, TP04_0.4-0.5, TP05_0.2-0.3, BH02_0-0.1, QC01	04-Feb-2026	09-Feb-2026	18-Feb-2026	✔	09-Feb-2026	18-Feb-2026	✔
<b>Soil Glass Jar - Unpreserved (EP071)</b> TP01_0-0.1, TP02_0-0.1, TP03_0-0.1, TP04_0-0.1, TP05_0-0.1, BH01_0-0.1, BH03_0-0.1, TP01_0.4-0.5, TP02_0.5-0.6, TP03_0.4-0.5, TP04_0.4-0.5, TP05_0.2-0.3, BH02_0-0.1, QC01	04-Feb-2026	09-Feb-2026	18-Feb-2026	✔	10-Feb-2026	21-Mar-2026	✔
<b>EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions</b>							
<b>Soil Glass Jar - Unpreserved (EP080)</b> TP01_0-0.1, TP02_0-0.1, TP03_0-0.1, TP04_0-0.1, TP05_0-0.1, BH01_0-0.1, BH03_0-0.1, TP01_0.4-0.5, TP02_0.5-0.6, TP03_0.4-0.5, TP04_0.4-0.5, TP05_0.2-0.3, BH02_0-0.1, QC01	04-Feb-2026	09-Feb-2026	18-Feb-2026	✔	09-Feb-2026	18-Feb-2026	✔
<b>Soil Glass Jar - Unpreserved (EP071)</b> TP01_0-0.1, TP02_0-0.1, TP03_0-0.1, TP04_0-0.1, TP05_0-0.1, BH01_0-0.1, BH03_0-0.1, TP01_0.4-0.5, TP02_0.5-0.6, TP03_0.4-0.5, TP04_0.4-0.5, TP05_0.2-0.3, BH02_0-0.1, QC01	04-Feb-2026	09-Feb-2026	18-Feb-2026	✔	10-Feb-2026	21-Mar-2026	✔
<b>EP080: BTEXN</b>							
<b>Soil Glass Jar - Unpreserved (EP080)</b> TP01_0-0.1, TP02_0-0.1, TP03_0-0.1, TP04_0-0.1, TP05_0-0.1, BH01_0-0.1, BH03_0-0.1, TP01_0.4-0.5, TP02_0.5-0.6, TP03_0.4-0.5, TP04_0.4-0.5, TP05_0.2-0.3, BH02_0-0.1, QC01	04-Feb-2026	09-Feb-2026	18-Feb-2026	✔	09-Feb-2026	18-Feb-2026	✔



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
<b>EP231A: Perfluoroalkyl Sulfonic Acids</b>							
HDPE Soil Jar (EP231X) BH01_0-0.1, BH03_0-0.1	04-Feb-2026	06-Feb-2026	03-Aug-2026	✓	06-Feb-2026	18-Mar-2026	✓
<b>EP231B: Perfluoroalkyl Carboxylic Acids</b>							
HDPE Soil Jar (EP231X) BH01_0-0.1, BH03_0-0.1	04-Feb-2026	06-Feb-2026	03-Aug-2026	✓	06-Feb-2026	18-Mar-2026	✓
<b>EP231D: (n:2) Fluorotelomer Sulfonic Acids</b>							
HDPE Soil Jar (EP231X) BH01_0-0.1, BH03_0-0.1	04-Feb-2026	06-Feb-2026	03-Aug-2026	✓	06-Feb-2026	18-Mar-2026	✓
<b>EP231P: PFAS Sums</b>							
HDPE Soil Jar (EP231X) BH01_0-0.1, BH03_0-0.1	04-Feb-2026	06-Feb-2026	03-Aug-2026	✓	06-Feb-2026	18-Mar-2026	✓

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
<b>EG020T: Total Metals by ICP-MS</b>							
Clear Plastic Bottle - Unfiltered; Lab-acidified (EG020A-T) RB01	04-Feb-2026	10-Feb-2026	03-Aug-2026	✓	11-Feb-2026	03-Aug-2026	✓
<b>EG035T: Total Recoverable Mercury by FIMS</b>							
Clear Plastic Bottle - Unfiltered; Lab-acidified (EG035T) RB01	04-Feb-2026	----	----	----	10-Feb-2026	04-Mar-2026	✓
<b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons</b>							
Amber Glass Bottle - Unpreserved (EP075(SIM)) RB01	04-Feb-2026	06-Feb-2026	11-Feb-2026	✓	07-Feb-2026	18-Mar-2026	✓
<b>EP080/071: Total Petroleum Hydrocarbons</b>							
Amber Glass Bottle - Unpreserved (EP071) RB01	04-Feb-2026	06-Feb-2026	11-Feb-2026	✓	06-Feb-2026	18-Mar-2026	✓
Amber VOC Vial - Sulfuric Acid (EP080) RB01	04-Feb-2026	09-Feb-2026	18-Feb-2026	✓	09-Feb-2026	18-Feb-2026	✓
<b>EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions</b>							
Amber Glass Bottle - Unpreserved (EP071) RB01	04-Feb-2026	06-Feb-2026	11-Feb-2026	✓	06-Feb-2026	18-Mar-2026	✓
Amber VOC Vial - Sulfuric Acid (EP080) RB01	04-Feb-2026	09-Feb-2026	18-Feb-2026	✓	09-Feb-2026	18-Feb-2026	✓
<b>EP080: BTEXN</b>							
Amber VOC Vial - Sulfuric Acid (EP080) RB01	04-Feb-2026	09-Feb-2026	18-Feb-2026	✓	09-Feb-2026	18-Feb-2026	✓



## 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	Method	Count		Rate (%)			Quality Control Specification
		QC	Reaular	Actual	Expected	Evaluation	
<b>Analytical Methods</b>							
<b>Laboratory Duplicates (DUP)</b>							
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	2	13	15.38	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Moisture Content	EA055	4	39	10.26	10.00	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (SIM)	EP075(SIM)	2	17	11.76	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	2	11	18.18	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	1	6	16.67	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	1	6	16.67	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	4	38	10.53	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	6	40	15.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	2	19	10.53	10.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	2	14	14.29	10.00	✓	NEPM 2013 B3 & ALS QC Standard
WAD Cyanide by Segmented Flow Analyser	EK028SF	1	3	33.33	10.00	✓	NEPM 2013 B3 & ALS QC Standard
<b>Laboratory Control Samples (LCS)</b>							
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	2	13	15.38	10.00	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (SIM)	EP075(SIM)	1	17	5.88	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	11	9.09	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	1	6	16.67	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	1	6	16.67	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	38	5.26	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	2	40	5.00	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	14	7.14	5.00	✓	NEPM 2013 B3 & ALS QC Standard
WAD Cyanide by Segmented Flow Analyser	EK028SF	1	3	33.33	5.00	✓	NEPM 2013 B3 & ALS QC Standard
<b>Method Blanks (MB)</b>							
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	1	13	7.69	5.00	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (SIM)	EP075(SIM)	1	17	5.88	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	11	9.09	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	1	6	16.67	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	1	6	16.67	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	38	5.26	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	2	40	5.00	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	14	7.14	5.00	✓	NEPM 2013 B3 & ALS QC Standard
WAD Cyanide by Segmented Flow Analyser	EK028SF	1	3	33.33	5.00	✓	NEPM 2013 B3 & ALS QC Standard
<b>Matrix Spikes (MS)</b>							
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	2	13	15.38	10.00	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (SIM)	EP075(SIM)	1	17	5.88	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	Method	Count		Rate (%)			Quality Control Specification
		QC	Regular	Actual	Expected	Evaluation	
<b>Analytical Methods</b>							
<b>Matrix Spikes (MS) - Continued</b>							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	11	9.09	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	1	6	16.67	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	1	6	16.67	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	38	5.26	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	3	40	7.50	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	14	7.14	5.00	✓	NEPM 2013 B3 & ALS QC Standard
WAD Cyanide by Segmented Flow Analyser	EK028SF	1	3	33.33	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	Method	Count		Rate (%)			Quality Control Specification
		QC	Regular	Actual	Expected	Evaluation	
<b>Analytical Methods</b>							
<b>Laboratory Duplicates (DUP)</b>							
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	2	10	20.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	2	50.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-MS - Suite A	EG020A-T	1	5	20.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	2	13	15.38	10.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	8	12.50	10.00	✓	NEPM 2013 B3 & ALS QC Standard
<b>Laboratory Control Samples (LCS)</b>							
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	1	10	10.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	2	50.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-MS - Suite A	EG020A-T	1	5	20.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	13	7.69	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	8	12.50	5.00	✓	NEPM 2013 B3 & ALS QC Standard
<b>Method Blanks (MB)</b>							
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	1	10	10.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	2	50.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-MS - Suite A	EG020A-T	1	5	20.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	13	7.69	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	8	12.50	5.00	✓	NEPM 2013 B3 & ALS QC Standard
<b>Matrix Spikes (MS)</b>							
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	1	10	10.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	2	50.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-MS - Suite A	EG020A-T	1	5	20.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	13	7.69	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	8	12.50	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 (SnCl <sub>2</sub> ) (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 SnCl <sub>2</sub> 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)
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	SOIL	In house: Referenced to USEPA SW846, Method 3060. Hexavalent chromium is extracted by alkaline digestion. The digest is determined by photometrically by automatic discrete analyser, following pH adjustment. The instrument uses colour development using dephenylcarbazide. Each run of samples is measured against a five-point calibration curve. This method is compliant with NEPM Schedule B(3)
WAD Cyanide by Segmented Flow Analyser	EK028SF	SOIL	In house: Referenced to APHA 4500-CN C&O / ISO 14403. Caustic leachates of soil samples are introduced into an automated segmented flow analyser. Hydrogen cyanide is liberated from a slightly acidified (pH 4.5) and is dialysed. Tight cyanide complexes that would not be amenable to oxidation by chlorine are not converted. Iron cyanide complexes are precipitated with zinc acetate. Liberated HCN diffuses through a membrane into a stream of sodium hydroxide where it is carried as CN <sup>-</sup> . The cyanide in caustic solution is buffered to pH 5.2 and further converted to cyanogen chloride by reaction with chloramine-T. Cyanogen chloride subsequently reacts with 4-pyridine carboxylic and 1,3-dimethylbarbituric acids to give a red colour complex. This colour is measured at 600 nm. 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 - Semivolatle 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).
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)



Analytical Methods	Method	Matrix	Method Descriptions
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 negative mode LC-ESI-MS/MS using MRM and isotope dilution or internal standard quantitation. A portion of homogenised sample is extracted along with isotope dilution standards (where commercially available) in a solution of ammonium acetate in acetonitrile/methanol. Where relevant, interferences from co-extracted organics are removed using dispersive clean-up media (dSPE). A portion of extract is combined with an equal volume of reagent water and filtered for instrumental analysis.
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 (SnCl <sub>2</sub> )(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 SnCl <sub>2</sub> 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)
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
NaOH leach for CN in Soils	CN-PR	SOIL	In house: APHA 4500 CN. Samples are extracted by end-over-end tumbling with NaOH.
Alkaline digestion for Hexavalent Chromium	EG048PR	SOIL	In house: Referenced to USEPA SW846, Method 3060A.
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, Na <sub>2</sub> SO <sub>4</sub> 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.



<i>Preparation Methods</i>	<i>Method</i>	<i>Matrix</i>	<i>Method Descriptions</i>
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.

# APPENDICES

## APPENDIX G: QUALITY ASSURANCE AND QUALITY CONTROL



Table G-1 - Lab QA/QC Summary  
 JN26714  
 1686 Channel Highway

Issue Date	Laboratory	Lab Batch	Media	Data Quality Observations	Comment
11-Feb	ALS	EM2601781	Soil	Sample handling	Samples were received with custody seals intact and attempt to chill evident. Appropriate sample containers and preservative were used with a completed chain of custody documentation.
				Method blanks Laboratory duplicates Laboratory control samples Surrogate recoveries	No method blank outliers occurred. No duplicate outliers occurred. No laboratory control sample outliers occurred. No surrogate recovery outliers occurred.
				Analysis holding time outliers do not exist	Samples were all received and analysed within holding times
				Quality control sample frequency outliers do not exist	Laboratory quality control frequency was suitable for all analysis.
				Matrix Spikes	Matrix spike outliers did occur for lead (125%) and chromium (34%). This did not affect the data interpretation as the results were generally consistent across the majority of analytes.
				Laboratory duplicate RPD (soil):	RPDs for all analytes were within acceptance criteria.
				Intra Laboratory Duplicate RPDs	Intra Laboratory Duplicate RPDs were within criteria with the exception of Lead (59%) between primary sample TP01_0-0.1 and duplicate sample QC01. These exceedances are considered likely due to the heterogeneous nature of the fill material and is not considered to be significant.
				Rinsate blanks	All blanks reported concentrations less than laboratory LOR.

Table G-2 - QA/QC Results - Field Duplicates  
 JN26714  
 1686 Channel Highway

				Batch	EM2211875		Relative Percentile Difference (RPD) %
				Matrix	Sediment		
				Sample ID	EM2601781001	EM2601781023	
				Field ID	TP01_0-0.1	QC01	
				Sample Type	Primary	Duplicate	
				Date	04-Feb-26	04-Feb-26	
Parameter Suite	Analyte Name	Units	LOR				
Total Metals	Arsenic	mg/kg	5		<5	<5	0%
	Cadmium	mg/kg	1		<1	<1	0%
	Chromium	mg/kg	2		5	5	0%
	Copper	mg/kg	5		63	66	5%
	Lead	mg/kg	5		6	11	59%
	Nickel	mg/kg	2		16	15	6%
	Zinc	mg/kg	5		25	36	36%
	Mercury	mg/kg	0.1		<0.1	<0.1	0%
Total Petroleum Hydrocarbons	C6 - C9 Fraction	mg/kg	10		<10	<10	0%
	C10 - C14 Fraction	mg/kg	50		<50	<50	0%
	C15 - C28 Fraction	mg/kg	100		<100	<100	0%
	C29 - C36 Fraction	mg/kg	100		<100	<100	0%
	C10 - C36 Fraction (sum)	mg/kg	50		<50	<50	0%
Total Recoverable Hydrocarbons - NEPM 2013 Fractions	C6 - C10 Fraction	mg/kg	10		<10	<10	0%
	C6 - C10 Fraction minus BTEX (F1)	mg/kg	10		<10	<10	0%
	>C10 - C16 Fraction	mg/kg	50		<50	<50	0%
	>C16 - C34 Fraction	mg/kg	100		<100	<100	0%
	>C34 - C40 Fraction	mg/kg	100		<100	<100	0%
	>C10 - C40 Fraction (sum)	mg/kg	50		<50	<50	0%
BTEXN	>C10 - C16 Fraction minus Naphthalene (F2)	mg/kg	50		<50	<50	0%
	Benzene	mg/kg	0.2		<0.2	<0.2	0%
	Toluene	mg/kg	0.5		<0.5	<0.5	0%
	Ethylbenzene	mg/kg	0.5		<0.5	<0.5	0%
	meta- & para-Xylene	mg/kg	0.5		<0.5	<0.5	0%
	ortho-Xylene	mg/kg	0.5		<0.5	<0.5	0%
	Total Xylenes	mg/kg	0.5		<0.5	<0.5	0%
	Sum of BTEX	mg/kg	0.2		<0.2	<0.2	0%
Polynuclear Aromatic Hydrocarbons	Naphthalene	mg/kg	0.5		<0.5	<0.5	0%
	Acenaphthylene	mg/kg	0.5		<0.5	<0.5	0%
	Acenaphthene	mg/kg	0.5		<0.5	<0.5	0%
	Fluorene	mg/kg	0.5		<0.5	<0.5	0%
	Phenanthrene	mg/kg	0.5		<0.5	<0.5	0%
	Anthracene	mg/kg	0.5		<0.5	<0.5	0%
	Fluoranthene	mg/kg	0.5		<0.5	<0.5	0%
	Pyrene	mg/kg	0.5		<0.5	<0.5	0%
	Benz(a)anthracene	mg/kg	0.5		<0.5	<0.5	0%
	Chrysene	mg/kg	0.5		<0.5	<0.5	0%
	Benzo(b+j)fluoranthene	mg/kg	0.5		<0.5	<0.5	0%
	Benzo(k)fluoranthene	mg/kg	0.5		<0.5	<0.5	0%
	Benzo(a)pyrene	mg/kg	0.5		<0.5	<0.5	0%
	Dibenz(a,h)anthracene	mg/kg	0.5		<0.5	<0.5	0%
	Benzo(g,h,i)perylene	mg/kg	0.5		<0.5	<0.5	0%
	Benzo(a)pyrene TEQ (LOR)	mg/kg	0.5		1.2	1.2	0%

Notes	
67%	RPD exceeds nominal threshold of 30% for inorganics and 50% for organics
67%	RPD exceeds nominal threshold of 30% for inorganics and 50% for organics and reported concentration is >10x LOR.

**Table G-3- QA/QC Results -Rinsate Blanks  
JN26714**

1686 Channel Highway

		Sample ID		EM2601781024
		Field ID		RB01
		Sample Date		4/02/2026
		Matrix Type		Water
Parameter Suite	Analyte Name	Units	LOR	
<b>Total Metals</b>	Arsenic	mg/kg	5	<0.001
	Cadmium	mg/kg	1	<0.0001
	Chromium	mg/kg	2	<0.001
	Copper	mg/kg	5	<0.001
	Lead	mg/kg	5	<0.001
	Nickel	mg/kg	2	<0.001
	Zinc	mg/kg	5	<0.005
	Mercury	mg/kg	0.1	<0.0001
<b>Total Petroleum Hydrocarbons</b>	C6 - C9 Fraction	mg/kg	20	<20
	C10 - C14 Fraction	mg/kg	50	<50
	C15 - C28 Fraction	mg/kg	100	<100
	C29 - C36 Fraction	mg/kg	50	<50
	C10 - C36 Fraction (sum)	mg/kg	50	<50
<b>Total Recoverable Hydrocarbons - NEPM 2013 Fractions</b>	TRH C6-C10	mg/kg	20	<20
	C6 - C10 Fraction minus BTEX (F1)	mg/kg	20	<20
	>C10 - C16 Fraction	mg/kg	100	<100
	>C16 - C34 Fraction	mg/kg	100	<100
	>C34 - C40 Fraction	mg/kg	100	<100
	>C10 - C40 Fraction (sum)	mg/kg	100	<100
<b>BTEXN</b>	>C10 - C16 Fraction minus Naphthalene (F2)	mg/kg	100	<100
	Benzene	mg/kg	0.2	<1
	Toluene	mg/kg	0.5	<2
	Ethylbenzene	mg/kg	0.5	<2
	meta- & para-Xylene	mg/kg	2	<2
	ortho-Xylene	mg/kg	2	<2
	Total Xylenes	mg/kg	2	<2
	Sum of BTEX	mg/kg	1	<1
<b>Polynuclear Aromatic Hydrocarbons</b>	Naphthalene	mg/kg	0.5	<1
	Acenaphthylene	mg/kg	0.5	<1
	Acenaphthene	mg/kg	0.5	<1
	Fluorene	mg/kg	0.5	<1
	Phenanthrene	mg/kg	0.5	<1
	Anthracene	mg/kg	0.5	<1
	Fluoranthene	mg/kg	0.5	<1
	Pyrene	mg/kg	0.5	<1
	Benz(a)anthracene	mg/kg	0.5	<1
	Chrysene	mg/kg	0.5	<1
	Benzo(b+j)fluoranthene	mg/kg	0.5	<1
	Benzo(k)fluoranthene	mg/kg	0.5	<1
	Benzo(a)pyrene	mg/kg	0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.5	<1
	Benzo(g,h,i)perylene	mg/kg	0.5	<1