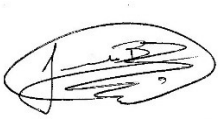
Detailed Site Investigation

Lots 2, 3 and 4 DP1285072, Cooma, NSW

Prepared for Stantec

11 October 2022

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Executive Summary

Stantec engaged Lanterra Consulting Pty Ltd to complete a detailed site investigation (DSI) of Lots 2, 3 and 4 DP1285072 located in the corner of Polo Flat Road and Monaro Highway, Cooma, NSW (herein referred to as the site).

The site is zoned R2: Low Density Residential and has an area of approximately 264,844 m^2 under the Cooma – Monaro Local Environmental Plan 2013.

The site has been used for grazing purposes, is currently vacant and is the proposed location for future residential development.

A previous preliminary site investigation across the site by Lanterra in 2022 identified that further investigation was required to assess the risk of contamination from the following areas of environmental concern (AECs):

- AEC 1 – Potential use of pesticides across the site given its agricultural history and geology of the area dominated by volcanic rocks with the potential to produce soils rich in iron and other metals.
- AEC 2 – Swales and drainage channels across the site could be receiving contaminated loads and as preferential pathways to transport and accumulate contaminants on- and off-site posing a potential risk to human and environmental health.
- AEC 3 – An agricultural dam located in the northern section of the site that could be receiving potentially contaminated loads which could pose a risk to human health and/or the environment.
- AEC 4 – A disturbed area located in the southern section of the site that appeared to have been levelled. The purpose of this levelled area was unclear during the PSI and further assessment was recommended.

The objective of this investigation was to assess the suitability of the site for the land uses permitted under the R2: Low Density Residential. by characterising the condition of the site, including soil and surface water, from a contamination perspective.

The scope of this DSI comprised of the following:

- A suitably qualified environmental consultant identified the sampling locations, and a Telstra Accredited Service Locator cleared each location of underground services.
- Undertake intrusive site investigation across the site including constructing fifty (50) test pits for soil sampling, soil sampling of nine (9) locations across the swales of the site, and one (1) water sample from the agricultural dam within the site.
- Undertake soil and water analysis at a National Associated of Testing Authorities (NATA) accredited laboratory for the analyses of contaminants of potential concern (COPCs) identified by Lanterra (2022).

Based on the findings of previous investigations and the intrusive site investigation, a summary of the key findings is shown below.

Soil investigation:

- Fill material used for levelling purposes was encountered in the southern portion of the site where levelling had occurred. This was within AEC 4 and was reworked material likely sourced from the site.

- COPCs were below the adopted criteria in each soil sample analysed and no traces of anthropogenic materials were observed in soil across the site.
- While metal concentrations were below the adopted health based investigation levels, the concentrations were elevated when compared to other geological environments within the Cooma region. The measured concentrations on the site were considered to be background concentrations associated with the volcanic rocks of the site which may have resulted in the elevated concentrations of copper in the dam water as described below.

Water investigation:

- Surface water collected from the dam within the site did not record concentrations above the ADWG (2011) criteria.
- Copper was recorded above the ANZG (2018) guideline for the protection of 95% of freshwater species.

Based on the results of the investigation and the current setting of the site, Lanterra concludes the following:

- Soil across the site does not show indications that it has been impacted by historical or current activities.
- No further soil investigations are considered necessary from a contamination perspective.
- Considering that the heavy metal concentrations in dam's water are potentially influenced by the geology of the area, the ANZG (2018) exceedance of copper is unlikely to be impacting freshwater aquatic ecosystems across the site and its surrounding.

Based on the results of the investigation, assessment of the potential risks, the site is currently considered suitable for the land uses permitted under the R2: Low Density Residential zoning from a contamination perspective, including the proposed residential development.

Based on the conclusions above, a construction environmental management plan (CEMP) which includes an unexpected finds protocol (UFP) to manage any unexpected occurrences of contamination should they be encountered during the development of the site should be prepared prior to any construction work commencing.

1. Introduction

Stantec engaged Lanterra Consulting Pty Ltd (Lanterra) to complete a Detailed Site Investigation (DSI) of Lots 2, 3 and 4 DP1285072 located in the corner of Polo Flat Road and Monaro Highway, Cooma, NSW (herein referred to as the site).

According to the Cooma – Monaro Local Environmental Plan 2013, the site is zoned R2: Low Density Residential and has an area of approximately 264,844 square metres (m^2).

The site is currently vacant and is the proposed location for a future residential development.

A preliminary site investigation (PSI) was completed by Lanterra in July 2022 titled '*Preliminary Site Investigation, Lot 6 DP242762 and Lot 318 DP750535, Cooma, NSW*', which concluded that further environmental investigations including soil and surface water sampling was recommended to examine the contamination risks identified across the site (**Section 3**). Details can be found in document P22065_PSI Cooma_20220704 (Lanterra, 2022).

This DSI addresses the recommendation for soil and surface water investigation across the site.

The site location and layout can be observed on **Figure 1** and **Figure 2, Appendix A**.

1.1 Objectives

The objective of this investigation is to assess the suitability of the site for the land uses permitted under the R2: Low Density Residential and adequately characterise the condition of the site including soil and surface water sampling from a contamination perspective.

1.2 Scope of Work

The scope of work for the investigation was as follows:

- A suitably qualified environmental consultant identified the sampling locations, and a Telstra Accredited Service Locator cleared each location of underground services.
- Undertake intrusive site investigation across the site including constructing fifty (50) test pits for soil sampling, soil sampling of nine (9) locations across the swales of the site, and one (1) water sample from the agricultural dam within the site.
- Undertake soil and water analysis at a National Associated of Testing Authorities (NATA) accredited laboratory for the analyses of contaminants of potential concern (COPCs) identified by Lanterra (2022).
- Assess laboratory results obtained from the investigation against the applicable land use criteria.
- Prepare a detailed investigation report presenting:
    - The results of the intrusive investigation.
    - Recommendation if further investigation / remediation is required.

1.3 Regulatory Guidelines / Legislations

- *National Environmental Protection Council (NEPC) (2013). National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended April 2013) (hereafter ASC NEPM 2013)*
- *NSW EPA (2017) Guidelines for the NSW Site Auditor Scheme (3rd Ed.) (2017)*
- *NSW EPA (1995) Sampling Design Guidelines*

- *NSW EPA (2022) Contaminated Land Guidelines – Sampling Design Part 1 - Application*
- *NSW EPA (2020) Contaminated Sites: Guidelines for Consultants Reporting on Contaminated Sites*
- *Standards Australia (2005). Guide to the investigation and sampling of sites with potentially contaminated soil. Part 1: Non-volatile and semi-volatile compounds AS4482.1 (2005) and Part 2: Volatile substances, AS4482.2 (2005)*

1.4 Limitations

The findings of the report are based on the Scope of Work outlined above. Lanterra has perform services in a manner consistent with the normal level of care and expertise exercised by members of the environmental assessment profession. No warranties express or implied, are made.

The assessment was limited strictly to identifying typical environmental conditions associated with the subject property area and does not include evaluation of any other issues.

The absence of any identified hazardous or toxic materials on the subject property should not be interpreted as a guarantee that such materials do not exist on the site.

The results of this assessment are based upon the site inspection and the sampling specified above conducted by Lanterra personnel and information from the Client or regulatory agencies. All conclusions and recommendations regarding the property area will be the professional opinions of the Lanterra personnel involved with the project, subject to the qualifications made above.

While normal assessments of data reliability are made, Lanterra will not assume responsibility or liability for errors in any data obtained from regulatory agencies, statements from sources outside of Lanterra, or developments resulting from situations outside the scope of this project.

2. Site Characteristics

2.1 Site Location

The site location and a detailed site plan are presented as **Figure 1** and **Figure 2**, **Appendix A**.

Table 1: *Summary of Site Details*

Site Characteristics	Detail
Street Address	Corner of Polo Flat Road and Monaro Highway, Cooma
Approximate Easting and Northing (centre of site)	Easting: 692921 Northing: 5989840 GDA2020/MGA zone 55
Approximate Elevation (m AHD)	810 - 830 m
Lot and Plan	Lots 2, 3 and 4 DP1285072
Land Zoning	R2: Low density residential
Current Land Use	Vacant land
Investigation Area	264,844 m^2 (approximately)

2.2 Site Description

The following description is based on observations made during a site visit conducted on 28 June 2022 and sampling works from 14 to 16 of September 2022:

Site Visit

The topography of the site is undulating and sloped to the north-northwest in the western portion of the site and to the northeast in the eastern area of the site. These slopes were divided by a topographic high observed in the southern central portion of the site.

Abundant fragments of volcanic rocks were observed throughout the site reflecting a natural feature associated with the geology underneath.

In several areas of the site, a reddish soil was observed in the surface. Red soils are potentially enriched in iron and other metals (e.g. chromium and nickel).

The surface of the site was generally clean and grassed with no significant signs of anthropogenic contamination and appeared in good condition.

A wire fence separated Lot 6 and Lot 318 within the site. Along this fence, an open gate was observed closer to the northern boundary.

The scraped area noted in the PSI (Lanterra, 2022) was presumably constructed to help with surface water runoff towards the drainage in this area and/or to use as fill for the potential trench associated to sewer systems.

Sampling Works

Fill material was observed in the scrapped area in sampling locations SA8, SA9 and SA10 to a depth of 0.7 m bgl which corresponds to reworked material.

A shallow water sample was obtained from the dam within the site. Some decomposing smell was observed while sampling.

The eastern swales samples were difficult to collect given the presence of rock fragments. The swale located in the western section presented abundant marks of cattle footprints.

Details are provided in **Section 12** and photographs in **Appendix G**.

2.3 Surrounding Land Uses

A summary of the land uses that surround the site are as follows:

- **North:** Monaro Highway and open vacant land. Electrical substation observed.
- **South:** Open land adjacent to southern boundary, railway and residential dwellings further south.
- **East:** Polo Flat Road and residential and commercial facilities further east.
- **West:** Electrical substation adjacent to western site boundary. Railway, Monaro Highway and residential facilities observed further west.

2.4 Sensitive Environments

The following sensitive environments have been identified within the site and its surrounding:

- Drainage channel observed in the western portion of the site and flowing in a northerly direction. This is a tributary of Cooma Creek located approximately 2,500 m to the north.
- Monaro Dry Grassland.
- Flora and fauna within the site.
- Users of the site

2.5 Proposed Land Use

It is understood that the site is the proposed location of a residential development which would include single dwellings, duplexes, social and affordable housing as well as key worker housing.

3. Site History

3.1 Previous Investigations

A preliminary site investigation (PSI) was performed by Lanterra in July 2022. Details can be found in the PSI titled '*Preliminary Site Investigation, Lot 6 DP242762 and Lot 318 DP750535, Cooma, NSW*'. The results of the PSI are summarised as follows:

- The objective of the PSI was to assess the potential risk of contamination and assess the suitability of the site for the land uses permitted under the R2: Low Density Residential zone.
- The scope of work completed included:
    - Acquisition and review of desktop documentation and associated historical information to assess whether there are any known contaminating activities either on the site or on neighbouring properties.
    - A review of the environmental setting with regards to geology, topography, hydrology, and hydrogeology.
    - Site visit to characterise the property setting and inspection of the site surface for obvious and visible signs of potential contamination and/or contaminant sources.
    - A visual evaluation of surrounding land uses to identify any neighbouring activities which may have affected or present a potential risk to the environmental quality of the site.
    - Preparation of the PSI report.
- Based on a review of the site history and the site visits completed on 28 June 2022 three (3) areas of environmental concern (AECs) were identified:
    - AEC 1: Potential contamination that may have been introduced from agricultural use of the land. Additionally, the geology across the greater site area potentially having elevated concentrations of heavy metals.
    - AEC 2: Two (2) swales and drainage areas which may be receptors for contamination from overland flow of water across the site.
    - AEC 3: Agricultural dam located in the northern portion of Lot 6 DP242762 which may be a receptor for contamination.
- The following contaminants of potential concern (COPCs) that may be associated with the presence of these AECs were defined:
    - Total recoverable hydrocarbons (TRH)
    - Benzene, toluene, ethylbenzene, xylene (BTEX)
    - Polycyclic aromatic hydrocarbons (PAH)
    - Organochlorine pesticides/organophosphorus pesticides (OCP/OPPs)
    - Polychlorinated biphenyls (PCBs)
    - Phenols
    - Heavy metals (arsenic, cadmium, chromium, copper, lead, mercury, nickel and zinc)

Lanterra (2022) concluded that there was insufficient information to assess whether the site was suitable for the proposed residential development from a contamination perspective and recommended that a detailed site investigation including soil/sediment and surface water sampling to investigate the contamination risks across the site.

4. Site Condition and Environmental Setting

4.1 Topography

The digital topographic map presented in NSW Six Maps indicated that the site has an elevation of 860 - 890 m above Australian Height Datum (m AHD).

Based on observations during the site visit, the site slopes towards northeast in the northern section and to the southeast in the southern portion.

4.2 Visible Signs of Contamination

Traces of concrete were observed adjacent to the electrical substation located to the west of the site and traces of bricks adjacent to the residential land to the east of the site.

No asbestos containing material suspects were observed across the site.

No signs of contamination were noted during test pit excavation and surface water sampling in 15 and 16 September 2022.

4.3 Fill Material

Fill material was observed in the scrapped area in sampling locations SA8, SA9 and SA10 to a depth of 0.7 m bgl corresponding to reworked fill sourced from the site.

More reworked fill material could have been used to backfill the underground services located across the site.

Details of the fill are provided in **Section 12**.

4.4 Odours

There were no olfactory indicators of possible contamination during fieldwork performed in the site with the exception of decomposition smell noticed while sampling surface water in the agricultural dam. This smell is attributed to standing water within the dam.

4.5 Staining

No staining was observed across the site. Particular attention was paid to areas that were unsealed.

5. Geology and Hydrogeology

5.1 Geology

The 1:250 000 Bega-Mallacoota, New South Wales Geological Series Sheet, indicates that the site is underlain by the Tertiary aged Monaro Volcanics composed of dolerite, basalts and unconsolidated sedimentary rocks which are consistent with the rocks present on the site.

5.2 Hydrogeology

A groundwater bore search was undertaken in the PSI report by Lanterra (2022).

The purpose of the bore search was to document the location and depth of any nearby registered groundwater bores, and the associated quality of the groundwater so that potential impacts of contaminants from the site or surrounding land uses (if any) on local users of groundwater may be assessed. A copy of the groundwater bore search result is presented in **Appendix D**.

This search indicated that there are two (2) water supply groundwater bore to the north of the site. One of them abandoned 914 m to the northwest and the other functional located 1,109 m to the northeast. Fifty-nine (59) monitoring wells are observed to the south and southwest of the site (pages 43 - 47, **Appendix D**) the closer one located 634 m south.

The description of aquifers on the site are fractured to fissured with low to moderate productivity.

Based on the topography of the site and the nearest water body, the groundwater flow direction is inferred to be flowing to the northwest in the western portion of the site and to the northeast in the eastern portion of the site.

5.3 Hydrology

Most storm water is expected to infiltrate into the subsurface.

Based on the topography of the site storm water that does not infiltrate would flow in a north easterly direction in eastern portion of the site, where the drainage channel is observed, and in a north westerly direction in the west of the site.

5.4 Acid Sulfate Soil Risk

A review of the Australian Soil Resource Information System (ASRIS) map shows the subject site to be situated in an area of ‘extremely low probability for acid sulfate soil’.

6. Preliminary Conceptual Site Model

Conceptual site models (CSM) are a method of presenting site contamination information and the relationships between sources of contamination, how it may have been introduced to the site, possible pathways for contaminant migration and exposure and the receptors that may be affected by contaminants.

The following conceptual site model has been prepared based on the information presented in the Lotsearch Report and document searches and presented in the sections below.

6.1 Areas of Environmental Concern

Lanterra (2022) identified the following areas of environmental concern (AECs) for the site:

AEC 1 – Agricultural Use and Stock Paddocks

The site appears to have been used for agricultural purposes which introduces the risk to human health and environment associated with the use of pesticides across the site. Additionally, the site is underlain by mafic rocks (**Section 5.1**) which has the potential to produce soils rich in iron and other siderophile metals. If heavy metals are present in high concentrations, they could pose a risk to the human health and environment.

Often agricultural land uses have included buried waste as a form of disposal . While no evidence of the disposal of waste on the site has been identified, there is still some possibility for this to occur.

AEC 2 – Swale and drainage channels

The swale running into the agricultural dam is likely to be receiving water and soil from the site and adjacent properties to the east. The catchment area of the drainage observed in the western portion is mostly related to Lot 6. If these loads are contaminated, both drainage and swale could act as preferential pathways to transport and accumulate contaminants on- and off-site posing a potential risk to human and environmental health.

AEC 3 – Agricultural Dam

If soil and water that reaches the agricultural dam are contaminated, these potential contaminants could be dissolved in the water of the dam and/or accumulating in the sediments could pose a risk to human health and/or the environment.

AEC 4 – Disturbed Scraped Area

A disturbed area located in the southern section of the site that appeared to have been levelled. The purpose of this levelled area was unclear during the PSI and further assessment was recommended.

The fill material appeared to have been used for levelling the area and was likely to have been sourced from the immediate area around where the fill material had been placed. This material was unlikely to pose a risk for human health or the environment.

6.2 Contaminants of Potential Concern

To comprehensively characterise the site and based on some of the activities associated within the site and its surroundings and respective AEC the following contaminants of potential concern (COPC) were identified.

Table 2: *Identified COPC and the associated AECs*

AECs	Media	COPC
AEC 1 – Agricultural Paddocks	Soil	• Total recoverable hydrocarbons (TRH) • Benzene, toluene, ethylbenzene, xylene (BTEX) • Polycyclic aromatic hydrocarbons (PAH) • Organochlorine pesticides/organophosphorus pesticides (OCP/OPPs) • Phenols • Heavy metals (arsenic, cadmium, chromium, copper, lead, mercury, nickel and zinc) • Asbestos*
AEC 2 – Swale and channels	Soil/sediment	• TRH • BTEX • PAH • PCBs • Phenols • OCP/OPPs • Heavy metals • ** Per- and Polyfluorinated Substances (PFAS)
AEC3 - Agricultural Dam	Water	• TRH • BTEX • PAH • PCBs • Phenols • OCP/OPPs • Heavy metals
AEC 4 – Scraped Area	Soil	• TRH • BTEX • PAH • PCBs • Phenols • OCP/OPPs • Heavy metals

*Asbestos was not analysed given that suspected asbestos containing materials were not observed in the surface of the site or in fill material while sampling.

**PFAS was analysed in soil samples collected from the drainage in the western section of the site due to the proximity to the electrical substation where retardant substances could have been used in the case of fire and subsequently accumulated in the drainage soil.

6.3 Exposure Pathways and Receptors

For a contaminant to pose a risk to either human health and/or the environment, there must be a potentially complete or complete pathway between the contaminant and the receptor. Identified receptors at the site are as follows:

- On-site workers associated with the current and future use of the site.
- Current users of the site.
- Future construction workers engaged as part as the development.
- Future users of the development including residents.

- Ecological receptors.
- Dam water
- Groundwater.

Common pathways for which contaminants may migrate through the environment on the site and result in exposure to receptors are summarised in **Table 3** below.

Table 3: *Summary of Exposure Pathways*

Pathway	Contaminants of Concern	Exposure Pathway Complete or Potentially Complete	Comments
Direct Contact with Soil/Sediment including dermal contact and ingestion	TRH, BTEX, PAH, PCB, Heavy metals, Phenols, OCP, OPP, PFAS*	Potentially Complete	Based on the agricultural use of the site, its natural characteristics and layout, the presence of potential contaminants in the surface or subsurface of the site and sediments within the agricultural pond, swale and drainage cannot be ruled out and could pose a risk to the human health and the environment.
Direct Contact with Groundwater including dermal contact and ingestion	TRH, BTEX, PAH, PCB, Heavy metals, Phenols	Incomplete	No abstraction bores are located on or near the site and therefore exposure to groundwater is incomplete.
Direct Contact with pond water including dermal contact and ingestion	TRH, BTEX, PAH, PCB, Heavy metals, Phenols, OCP, OPP	Potentially Complete	If contaminants are present in water of the agricultural pond, they could pose a risk to the human health and the environment.
Inhalation of gasses and vapour	TRH, BTEX	Potentially Complete	If volatile contaminants are present in the soil these could produce a vapour that could migrate to the surface, then there is a potentially complete exposure pathway. Any buildings that may be constructed are at greater risk of vapour inhalation than outdoor areas.
Inhalation of Asbestos Fibres	Asbestos*	Potentially Complete	Although no visual evidence of asbestos was identified during the site visit, its presence in the surface and/or subsurface cannot be ruled out. Therefore, if present, the exposure pathway to residual asbestos fines and fibrous asbestos is potentially complete.

*See notes below **Table 2** of **Section 6.2**.

In its current condition, there are potentially complete contaminant exposure pathways which are contingent on whether COPCs are present.

7. Data Quality Objectives

This section outlines the data quality objectives (DQOs) applied to the investigation.

The DQO process is a planning tool that relies on scientific methods for establishing criteria for data quality and for designing data collection programs. The DQO defines the experimental process required to test a hypothesis. The DQO process aims to ensure that efforts relating to data collection are cost-effective, by eliminating unnecessary, duplicative or overly precise data whilst at the same time, ensuring the data collected is of sufficient quality and quantity to support defensible decision making.

The DQO process consists of seven steps, which are designed to clarify the study objectives, define the appropriate type of data and specify tolerable levels of potential decision errors. The seven-step DQO process adopted for this investigation is as follows:

Step 1: State the Problem – concisely describe the problem to be studied. Review prior studies and existing information to gain a sufficient understanding to define the problem;

Step 2: Identify the Decision – identify what questions the study will attempt to resolve, and what actions may result;

Step 3: Identify the Inputs to the Decision – identify the information that needs to be obtained and the measurements that need to be taken to resolve the decision statement;

Step 4: Define the Study Boundaries – specify the time periods and spatial area to which decisions will apply. Determine when and where data should be collected;

Step 5: Develop a Decision Rule – define the statistical parameter of interest, specify the action level, and integrate the previous DQO outputs into a single statement that describes the logical basis for choosing among alternative actions;

Step 6: Specify Tolerable Limits on Decision Errors – define the decision maker's tolerable decision error rates based on a consideration of the consequences of making an incorrect decision; and

Step 7: Optimise the Design –evaluate information from the previous steps and generate alternative data collection designs. Choose the most resource-effective design that meets all DQOs.

The DQOs derived for the investigation are presented in **Table 4.**

Table 4: *DQOs derived for the Investigation*

Step	Details
Step 1: State the Problem	The PSI completed for the site report has identified a potential contamination risk associated with the agricultural use of the site, geology of the site and its surroundings, potential presence of buried waste, and impact along the swales and the agricultural dam. The purpose of the investigation is to assess whether the activities have introduced contaminants on the site.
Step 2: Identify the Decision	The purpose of the investigation was to assess whether the site would be suitable for residential land use. Should COPCs be identified at concentrations that exceeded the adopted assessment criteria, then management and /or options for remediation to make the site suitable may be necessary.
Step 3: Identify the Inputs into the Decision	The COPCs selected are based on the review of previous investigations and based on former site activities as described in **Section 3** and **Section 4**. As the site is the proposed location of a future residential development, the following assessment criteria from the National Environment Protection Council (NEPC) '*National Environment Protection (Assessment of Site Contamination) Measure 1999*' (revised in 2013; ASC NEPM 2013) has been selected: • Health Based Investigation Levels for Residential Sites (HIL A) • Health Based Screening Levels for Residential Sites (HSL A) • Ecological Investigation Levels (EIL) for Urban Residential and Public Open Space • Ecological Screening Levels (ESL) for Urban Residential and Public Open Space Values for each criteria are presented in **Section 9** below.
Step 4: Define the Site Boundaries	The lateral site boundary is shown in **Figure 2, Appendix A**. The vertical boundary of the site is approximately 1.1 m below ground level which was the maximum depth during testpit advancement on-site. The investigation was completed between 14 and 16 September 2022 with the results of the assessment limited to the condition of the site as of the date sampling is completed.
Step 5: Develop a Decision Rule	• If analytical results for COPCs are below the adopted criteria for Commercial/Industrial sites, then the site would be considered suitable for the proposed land use and no further management or remediation would be required. • However, should the concentration of one or more COPC exceed the adopted criteria value then further investigation may be required to delineate the lateral and vertical extent of the impact and/or recommendations for the remediation/management of contamination that may be required. • If the laboratory quality assurance / quality control data are within acceptable ranges, the results will be considered suitable for use. • If the COPC is reported below the laboratory detection limit in the samples applicable to a specific pathway, then it will be considered that there is no evidence of a potential complete source-pathway-receptor linkage and therefore inclusion of that pathway in further assessment may not be required
Step 6: Specify Tolerable Limits	The tolerable limits for the investigation adopted for quality assurance/quality control (QA/QC) purposes are as follows: • The relative percentage difference (RPD) for laboratory duplicates for TRH and BTEX (volatiles) analysis is less than 60%; and • Recovery of matrix spikes and surrogate spikes is as per the laboratory's Quality Assurance targets accepted under their NATA accreditation.

Step	Details
	The tolerable limits for field QA/QC data are as follows: • RPD criteria of 50% or less, for concentrations > or = 10 times practical quantitation limits (PQL); • RPD criteria of 75% or less, for concentrations between 5 and 10 times the PQL; and • RPD criteria of 100% or less, for concentrations < 5 times PQL. Replicate data for field duplicates for inorganics is expected to be as follows: • RPD criteria of 30% or less, for concentrations > or = 10 times PQL; • RPD criteria of 75% or less, for concentrations between 5 and 10 times the PQL; and • RPD criteria of 100% or less, for concentrations < 5 times PQL.
Step 7: Optimise the Design	The investigation program for this assessment is detailed in **Section 8** to adequately characterise the identified risks of contamination across the site (**Section 3** and **Section 4**) and in accordance with the NSW EPA (2022) 'Contaminated Land Guidelines – Sampling Design Part 1 - Application 'Sampling Design Guidelines'. As a summary, fifty (50) testpits for soil sampling were constructed to assess potential impact across the site; nine (9) locations for soil sampling across the swales of the site, and one (1) water sample from the agricultural dam within the site.

8. Sampling, Analysis and Quality Plan

Details of the sampling and analytical plan adopted to meet the project objectives are presented in the following sections.

8.1 Chronology of Events

The chronology of key project events is summarised in **Table 5**.

Table 5: *Summary of the Chronology of Works*

Date	Event
06 September 2022	Lanterra was engaged by Stantec to undertake a detail site investigation at Lot 6 DP242762 and Lot 318 DP750535, Cooma.
14-23 September 2022	Sampling works (testpits, swales and dam).
06 October 2022	Receipt of Laboratory Results.
06 October 2022	DSI Report for review
10 October 2022	Issue of DSI report
11 October 2022	Client review and DSI report issue

8.2 Sampling Plan

8.2.1 Soil Sampling

Considering the identified potential contamination risks, the sampling plan follows a stratified sampling pattern across the site as follows, in general accordance with the NSW EPA (2022) Contaminated Land Guidelines – Sampling Design Part 1 - Application:

- High density, targeted sampling in the stripped area located on Lot 318 DP750535 (10 sampling locations)
- Low density, systematic sampling across the rest of the site (40 sampling locations)
- Judgemental sampling of swales (9 sampling locations) and one sample of water from the agricultural dam.

It is noted that the proposed sampling is less than the recommended sampling density for a site of 26 hectares, however, based on agricultural history of the site and that, if used, pesticides are usually applied homogenously, the lower systematic sampling density is considered suitable to characterise the potential contamination status of the site.

Based on the history of the site and identified risks, samples were planned to a maximum depth of 1.0 m below ground level (bgl).

8.2.2 Surface Water

During the PSI investigation, water was observed in the agricultural dam located in the eastern portion of the site (Lanterra, 2022). Therefore, a surface water sample would be collected from the dam if present.

The locations of boreholes, swale samples, and dam water sampling locations across the site are shown on **Figure 3**, **Appendix A**.

8.2.3 Quality Assurance / Quality Control

For quality assurance / quality control (QA/QC) purposes, the following samples were collected in accordance with AS4482.1 (2005).

- One (1) field duplicate sample for each twenty (20) primary soil samples and one (1) surface water sample to be analysed by the primary laboratory to assess the precision of the results;
- One (1) field triplicate sample for each twenty (20) primary soil samples and one (1) surface water sample to be analysed by a secondary laboratory to assess the accuracy of the primary laboratory;

The QA/QC analytical plan was considered appropriate.

8.3 Analytical Plan

From the samples collected across the site, the analytical plan presented in **Table 6** was executed to assess the identified COPCs.

Table 6: *Analytical Plan Completed for the DSI*

Sample Type	Sample Media	TRH	BTEX	PAH	OCP/OPP	PCB	Heavy Metals	Phenols	PFAS	pH, CEC, % Clay
Primary	Soil	59	59	59	59	59	59	59	4	2
	Surface Water	1	1	1	1	1	1	1	0	0
Duplicate	Soil	4	4	4	4	4	4	4	0	0
Triplicate	Soil	4	4	4	0	0	4	0	0	0

9. Assessment Criteria

The assessment criteria adopted for the investigation was based on the proposed use of the site as a residential development. The criteria adopted has been sourced from the ASC NEPM 2013 and details of the criteria are presented in the following sections.

9.1 Soil Assessment Criteria

- Health Based Investigation Levels for Residential Sites (HIL A)
- Health Based Screening Levels for Residential Sites (HSL A) for a clay lithology and a depth of 0 m to <1 m below ground level. This assumption is considered appropriate based on the predominant soil observed on site.
- Ecological Investigation Levels (EIL) for aged contaminants in Urban Residential and Public Open Space;
- Ecological Screening Levels (ESL) for Urban Residential and Public Open Space for fine soil based on fine texture.

EIL criteria was derived based on site specific physicochemical properties (pH, cation exchange capacity (CEC) and percent clay.) measured from samples TP5 0.0-0.1 and TP31 0.0-0.1. The values used for the determining EILs are summarised in **Table 7** below.

Table 7: *Averaged Measured Physicochemical Properties*

Physicochemical Property	Unit	Average (TP5 0.0-0.1 and TP31 0.0-0.1)
pH	pH Unit	6.1
CEC	meq / 100g	28
% Clay	%w / w	11

The EIL criteria were calculated using the ASC NEPM 2013 EIL Interactive (Excel) Calculation Spreadsheet using values for aged contaminants. Results of the EIL calculations are presented in **Appendix E**.

The criteria values adopted for the assessment of the site are presented in **Table 8** below.

Table 8: *Soil Assessment Criteria*

Contaminant Group	HIL/HSL – A (mg/kg)	EIL – Urban Residential and Public Open Space (mg/kg)	ESL-Urban Residential and Public Open Space (mg/kg)
Heavy Metals			
Arsenic	100	100	-
Cadmium	20	-	-
Chromium (III)	100	420	-
Copper	6,000	230	-
Lead	300	1,100	-
Nickel	400	340	-

Contaminant Group	HIL/HSL – A (mg/kg)	EIL – Urban Residential and Public Open Space (mg/kg)	ESL-Urban Residential and Public Open Space (mg/kg)
Zinc	7,400	510	-
Mercury	40	-	-
Pesticides			
Aldrin and Dieldrin	6	-	-
Chlordane	50	-	-
DDT	-	180	-
DDT+DDD+DDE	240	-	-
Endrin	10	-	-
HCB	10	-	-
Heptachlor	6	-	-
Methoxychlor	300	-	-
Mirex	10		
Toxaphene	20	-	-
Chlorpyrifos	160		
TRH and BTEX			
TRH C_6-C_{10} – BTEX (F1)	50	-	180
TRH >C_{10}-C_{16} – Naphthalene (F2)	280	-	120
TRH >C_{16}-C_{34} (F3)	-	-	1,300
TRH >C_{34}-C_{40} (F4)	-	-	5,600
Benzene	0.7	-	65
Toluene	480	-	105
Ethylbenzene	NL	-	125
Xylenes	110	-	45
PAHs and PCBs			
Total PAH	300	-	-
Benzo(a)pyrene	-	-	0.7

Contaminant Group	HIL/HSL – A (mg/kg)	EIL – Urban Residential and Public Open Space (mg/kg)	ESL-Urban Residential and Public Open Space (mg/kg)
Carcinogenic PAHs as B(a)P TEQ	3	-	-
Naphthalene	5	170	-
Total PCB	1	-	-
Phenols			
Phenol	3,000	-	-
Pentachlorophenol	100	-	-
Cresols	400	-	-

9.2 Surface Water Assessment Criteria

The assessment criteria to be adopted for groundwater are as follow:

- ANZG 2018, *Australian and New Zealand Guidelines for Fresh and Marine Water Quality*. Australian and New Zealand Governments and Australian State and Territory Governments, Canberra ACT – Toxicant Default Guideline Values for 95% species protection in freshwater.
- NHRMC 2011, *Australian Drinking Water Guideline – Version 3.7 (January 2022)* (ADWG 2011).

It is noted that no abstraction bores are located on the site and the dam water would not be used for human drinking purposes therefore the ADWG (2011) may not be applicable. However, for the identified COPCs of this investigation, the ADWG (2011) provides a meaningful criteria to assess surface water quality and have been used considering the most sensitive case and risk for water use to highlight any potential groundwater contamination impact.

Table 9: *Surface Water Assessment Criteria*

Contaminant Group	Australian Drinking Water Guideline 2011 (version 3.7, January 2022) (µg/L)	ANZG 2018 95% Species Protection for Fresh Waters (µg/L)
Heavy Metals		
Arsenic	10	24 as (III)
Cadmium	2	0.2
Chromium (VI)	50	1
Copper	2,000	1.4
Lead	10	3.4
Nickel	20	11
Zinc	3,000*	8
Mercury	1	0.06

Contaminant Group	Australian Drinking Water Guideline 2011 (version 3.7, January 2022) (µg/L)	ANZG 2018 95% Species Protection for Fresh Waters (µg/L)
TRH/BTEX/PAHs		
F1	-	-
F2	-	-
F3	-	-
F4	-	-
Benzene	1	950
Toluene	800 / 25*	180
Ethylbenzene	300 / 3 *	80
Xylene	600 / 20 *	625
Naphthalene	-	16
Phenanthrene	-	2
Anthracene	-	0.4
Fluoranthene	-	1.4
Benzo(a)pyrene	0.01	0.2
Sum of PAHs [c]	-	20[c]
OPP/OCP		
Dichlorvos	5	-
Dimethoate	-	0.15
Diazinon	4	0.01
Fenitrothion	7	-
Malathion	70	0.05
Chlorpyrifos	10	0.01
Parathion	-	0.004
Bromophos Ethyl	10	-
Methidathion	6	-
Azinphos-methyl	30	0.02
Hexachlorobenzene	-	0.1
Lindane	10	0.2
Heptachlor	0.3	0.09
Aldrin	0.3	0.001
Chlordane	2	0.08
Endosulfan	20	0.2
Dieldrin	0.3	0.01
DDT	9	0.01
Methoxychlor	300	0.005

Contaminant Group	Australian Drinking Water Guideline 2011 (version 3.7, January 2022) (µg/L)	ANZG 2018 95% Species Protection for Fresh Waters (µg/L)
Mirex	-	0.04
Phenols and PCB		
Phenol	-	320
2-chlorophenol	300 / 0.1*	490
2,4-dimethylphenol	-	2
2,6-dichlorophenol	-	34
2,4-dichlorophenol	200 / 0.3*	160
2,4,6-trichlorophenol	20 / 2*	20
4-nitrophenol	-	58
2,3,4,6-tetrachlorophenol	-	20
2,3,5,6-tetrachlorophenol	-	20
Pentachlorophenol	-	22
Arochlor 1242	-	0.6
Arochlor 1254	-	0.03
Total Arochlors	-	0.63

Note:

[a] Total Chromium
[c] Summation of Anthracene, Benzo(a)pyrene, Fluoranthene, Naphthalene, Phenanthrene for PAHs.
* Aesthetic values

10. Methods

10.1 Soil Samples

A suitably qualified environmental scientist and a subcontractor was mobilised to the site with appropriate equipment to undertake the soil investigation required. Methodology as below:

- All testpits (TP1 to TP40 and SA1 to SA9) were excavated by a 4-tonne excavator until natural material was found.
- Testpit samples were collected at the surface (0.0-0.1 m), 0.5m below ground level (bgl), and to 1.0 m bgl into natural material.
- Samples from the swales and drainage were collected using a hand auger which was brushed after each sampling point.
- Single-use disposable nitrile gloves were used to extract the samples from each sampling location to prevent cross-contamination.
- Samples were collected directly from soil recovered from the excavator bucket or auger flights. Care was taken to not recover soil in contact with the metal.
- Samples were placed in a laboratory prepared 250 millilitre (mL) glass jar with a Teflon lined screw top lid. Details of the sample, including project number, sample number, sample depth and date of the sample were written on each sample container.
- Each soil sample was described in general accordance with the Unified Soil Classification System (USCS) and details of any discolouration, staining, odours or other indicators of contamination noted.
- All samples were immediately placed and stored in an ice-filled esky to keep them chilled. Samples were transported to a NATA accredited laboratory with the signed chain of custody (COC) form with the required analysis (**Appendix C**).

10.2 Water Samples

A suitably qualified environmental consultant was mobilised to the site with appropriate sampling instruments for collecting a surface water sample from the dam on-site.

Surface water sample was collected straight into laboratory prepared containers using a new, clean pair of disposable nitrile gloves.

Site observations were recorded including any visual or olfactory indicator of potential contamination in the surface water.

Details of the sample, including project number, sample number, sample depth and date of the sample were written on each sample container. Sample containers were then be placed into an ice-cooled esky prior to being sent to SGS Australia, which is a NATA accredited laboratory with accompanying COC documentation for analysis.

11. Quality Assurance / Quality Control

11.1 Field QA/QC

Field duplicate and field triplicate samples were collected for calculating the relative percent difference (RPD) and assess the precision and accuracy of the laboratory. An RPD of less than 50% is considered acceptable where the analyte concentration is greater than five (5) times the laboratory LOR. Should the RPD be greater than 50%, then further investigation as to the reason for high RPD would occur.

The duplicate and triplicate samples were collected with the following primary samples:

- $QC1_{soil}$ and $QC2_{soil}$ were collected with primary sample SS04.
- $QC3_{soil}$ and $QC4_{soil}$ were collected with primary sample TP11 0.0-0.1.
- $QC5_{soil}$ and $QC6_{soil}$ were collected with primary sample TP22 0.0-0.1.
- $QC7_{soil}$ and $QC8_{soil}$ were collected with primary sample SA5 0.0-0.1.

The calculated RPDs (where applicable) for detectable concentrations of COPCs was less than 50% for all samples excepting QC1, QC4, QC7 and QC8 which failed a total of five RPDs including lead, nickel and zinc. However, this discrepancy is attributed to sample heterogeneity and, therefore, analytical data is considered suitable for the purpose of the assessment.

The QA/QC results and calculated RPDs are presented on **Table 1 and Table 2 of Appendix B**.

11.2 Laboratory Quality Assurance/Quality Control

A review of the laboratory QA/QC data is summarised below (**Appendix C**).

Holding Times

Several extraction and analysis dates were beyond the ideal time, however, given the history and nature of the site, these time exceedances are not considered to alter the analysis and outcome of the investigation.

Laboratory Accreditation

All analysis was performed in NATA accredited laboratory as follow:

- **Primary Laboratory:** SGS Australia Pty Ltd (NATA accreditation No. 2562)
- **Secondary Laboratory:** Envirolab Services Pty Ltd (NATA accreditation No. 2901)

Surrogate and Spike Recoveries

All surrogate recoveries were within the tolerable limits with the exception of the following:

Table 10: *Surrogate recovery samples that Exceed the Laboratory QA/QC criteria.*

Report Number	Media	Analyte	Sample Name	Sample Number	Recovery (%)
SE227942	Water	d5-phenol (Surrogate)	TP2 0.0-0.1	SE237144.022	42

The laboratory informed that this exceedance was related to matrix interference. However, given that phenol concentrations were below the laboratory LOR and the nature of the site, Lanterra considers that the exceedance has not impacted the outcome of this investigation.

All matrix spike recoveries were within tolerable limits.

Laboratory Control Sample Results

All laboratory control sample results were within the tolerable limits.

Laboratory Duplicate Results

The duplicate sample RPDs were within the tolerable range for each sample.

Laboratory Blank Results

All method laboratory blanks were below the laboratory LOR and therefore within tolerable limits.

12. Results

The findings from site inspection and laboratory analytical results of the investigation are presented in the following sections.

12.1 Visual Observations / Field Measurements

12.1.1 Test pit and Swale Soil Samples

Fill material was observed from the surface to a maximum depth of 0.7 m bgl in sampling locations SA8, SA9 and SA10 of the scrapped area. The fill material corresponded with reworked material described as a red-brown gravelly silty clay. An old topsoil layer was observed underneath reworked fill.

Anthropogenic materials were not observed while excavating and sampling through fill.

The other test pits displayed an incipient soil progression with topsoil in the surface and an immature layer with abundant presence of mafic volcanic fragments corresponding with the geology of the area (see **Section 5.1**). Natural material was described as a dark brown – red gravelly sandy clay.

Anthropogenic materials were not observed while excavating and sampling through fill.

The soil samples collected from the swales were fairly homogenous in both eastern and western sections of the site. A description of each sample is given in the table below.

Table 11: *Swale and drainage sample description.*

Samples	Depth (m)	Soil Description	Additional Observation
SS1	0.0-0.1	Silty clay, dark red-brown, moist, soft-firm	Abundant basalt fragments on surface
SS2	0.0-0.1	Silty clay, dark brown, moist, firm-hard	Difficult to drill
SS3	0.0-0.1	Silty clay, dark brown, moist, firm	Traces of grass and rocks in sample
SS4	0.0-0.1	Gravelly silty clay, dark brown, moist, firm	Traces of grass in sample
SS5	0.0-0.1	Silty clay, dark brown, moist, firm-hard	Traces of grass and abundant cattle footprints
SS6	0.0-0.1	Silty clay, dark brown, moist, soft-firm	Sample collected from iron-tin structure
SS7	0.0-0.1	Silty clay, dark brown, moist, soft-firm	Collected from drainage channel neat concrete
SS8	0.0-0.1	Clay, dark brown, moist, hard	Collected from old dam with traces of rock and concrete
SS9	0.0-0.1	Silty clay, dark brown, moist, firm	From drainage channel

No odour was detected in any of the soil samples collected.

Copies of the testpit logs are presented in **Appendix F.**

12.1.2 Water Sample

The water sample was collected from the agricultural dam which was shallow in depth (5 centimetres approximately).

Water was turbid with a pale brown colour.

Traces of grass were observed around the sampling location and a weak decomposition odour was detected.

Abundant hoof marks were observed around the dam indicating it is used by cattle.

12.2 Analytical Results

A total of fifty-nine (59) primary soil samples and one water sample were collected and selected for analysis. A summary of the analytical results is presented in **Table 1-2**, **Appendix B**, while copies of the laboratory reports, sample receipt and COCs are presented in **Appendix C**.

A brief summary of the results is presented below.

12.2.1 Soil Samples

OCP/OPP, PAH, PCB, BTEX, Phenols and PFAS

Concentrations of OCP/OPP, PAH, PCB, BTEX, Phenols and PFAS recorded in each sample submitted for analysis was below the laboratory limit of reporting (LOR) and therefore below the assessment criteria of this investigation for residential land use.

TRH

Concentrations of TRH compounds were below the laboratory LOR in each sample excepting TP16 0.0-0.1 which recorded 57 mg/kg for TRH C29-C36 however this value is below the adopted assessment criteria.

Heavy Metals

Heavy metals were measured above the laboratory LOR in each sample analysed; however, these were all below the adopted assessment criteria.

The maximum concentration of each metal recorded is summarised below:

- Arsenic: 4 mg/kg
- Chromium: 100 mg/kg
- Copper: 57 mg/kg
- Lead: 41 mg/kg
- Nickel: 150 mg/kg
- Zinc: 170 mg/kg

These metal concentrations were considered to be representative of the natural background concentrations of the host volcanic rock in the area.

12.2.2 Water Sample

OCP/OPP, PAH, PCB, BTEX, Phenols and TRH

Concentrations of OCP/OPP, PAH, PCB, BTEX, Phenols and TRH were below the laboratory LOR for sample SW1 and therefore below the assessment criteria of this investigation.

Heavy Metals

Concentrations of heavy metals were recorded above the laboratory LOR for chromium, copper and nickel. Of these elements, copper (7 µg/L) was detected above the ANZG (2018) for the protection of the environment.

It is noted the ANZG (2018) are conservative and developed for aquatic ecosystem protection and that this surface water concentrations may be influenced by the geology of the site dominated by mafic volcanic rocks.

Heavy metals were recorded below the Australian Drinking Water Guidelines.

13. Revised Conceptual Site Model

Based on the results of the intrusive investigation, the CSM has been revised to reflect information obtained from the site investigation.

13.1 Summary of Site Condition

13.1.1 Soil

Fill material was present in the scraped area located in the central-west portion of the site which ranged to depth of 0.4 m to 0.7 m bgl. This material corresponds to a reworked material sourced from the site itself.

Each soil sample analysed recorded COPCs concentrations below the adopted assessment criteria for Residential land use.

Traces of anthropogenic material was observed across the surface of the site and included fragments of concrete and bricks (Lanterra, 2022) located in the western and eastern boundaries of the site.

Based on the results of this and previous investigations, the soil within the site does not show indications that it has been impacted by the historical and current activities. No further soil investigations are considered necessary from a contamination perspective, although an unexpected finds protocol (UFP) is recommended to manage any unexpected occurrences of contamination should they be encountered during the construction of the proposed residential development.

13.1.2 Surface water

The surface water sample recorded copper above the ANZG (2018) guideline for the protection of 95% of fresh water species. These concentrations were attributed to the natural heavy metal background of the geology of the area.

Lanterra considers that regarding the protection of fresh aquatic species, the nearest sensitive receptor is the drainage channel located in the western portion of the site, tributary of Cooma Creek located 2,500 m to the north of the site. Considering that the heavy metal concentrations in surface water are potentially influenced by the background concentrations associated to the geology of the area, the ANZG (2018) exceedance of copper is unlikely to be impacting fresh aquatic ecosystems associated with these receptors.

13.2 Potential Receptors and Exposure Pathways

Based on the results of the investigation, the revised CSM is presented in the table below:

Table 12: *Revised Conceptual Site Model*

Pathway	COPCs	Potential Receptors	Exposure Pathway Complete or Potentially Complete	Comments
Direct Contact with Soil including dermal contact and ingestion	TRH, BTEX, PAH, PCB, Heavy metals, Phenols, OCP, OPP, PFAS*	• On-site users • On-site workers • Future workers • Ecological receptors	Incomplete	The site investigation did not identify concentration of COPCs in soil that will pose an unacceptable risk to the human health and the environment.

Pathway	COPCs	Potential Receptors	Exposure Pathway Complete or Potentially Complete	Comments
Direct Contact with Groundwater including dermal contact and ingestion	TRH, BTEX, PAH, PCB, Heavy metals, Phenols	• On-site users • On-site workers • Future workers • Ecological receptors	Incomplete	No abstraction bores are located on or near the site and therefore exposure to groundwater is incomplete.
Direct Contact with pond water including dermal contact and ingestion	TRH, BTEX, PAH, PCB, Heavy metals, Phenols, OCP, OPP,	• On-site users • On-site workers • Future workers • Ecological receptors	Incomplete	Copper was observed below the ADWG (2011) criteria, therefore does not pose a risk for the human health. At the same time, copper was above the adopted ANZG (2018) guideline for the protection of 95% of freshwater species. However, giving the natural setting of the site and the relatively low heavy metal concentrations, Lanterra considers that copper is unlikely to be impacting fresh aquatic ecosystems.
Inhalation of Asbestos Fibres	Asbestos	• On-site users • On-site workers • Future workers	Incomplete	No asbestos was found during the site visit and sampling works therefore asbestos was not considered to be a COPC. However, given the size of the site, it is not possible to rule out its existence and a UFP must be prepared in case asbestos containing materials are found during developing works.
Inhalation of gasses and vapour	TRH, BTEX, VOC	• On-site users • On-site workers • Future workers • Future residents	Incomplete	Volatile compounds were below the adopted criteria for residential use in soil and water. Therefore, the exposure pathway is incomplete.

14. Summary and Conclusions

Stantec engaged Lanterra to complete a DSI of Lots 2, 3 and 4 DP1285072 located in the corner of Polo Flat Road and Monaro Highway, Cooma, NSW (herein referred to as the site).

The site is zoned R2: Low Density Residential and has an area of approximately 264,844 m^2 under the Cooma – Monaro Local Environmental Plan 2013.

The objective of this investigation was to assess the suitability of the site for the land uses permitted under the R2: Low Density Residential and adequately characterise the condition of the site including soil and surface water sampling from a contamination perspective.

Based on the findings of previous investigations and the intrusive site investigation, a summary of the key findings is shown below.

Soil investigation:

- Fill material was identified in the soil across the site.
- This material corresponds with a reworked material likely sourced from the site.
- COPCs were below the adopted criteria in all soil samples analysed and no traces of anthropogenic materials were observed in soil across the site.

Water investigation:

- Surface water collected from the dam within the site did not record concentrations above the ADWG (2011) criteria.
- Copper was recorded above the ANZG (2018) guideline for the protection of 95% of freshwater species.

Based on the results of the investigation and the current setting of the site, Lanterra concludes the following:

- Soil across the site does not show indications that it has been impacted by the historical and current activities.
- No further soil investigations are considered necessary from a contamination perspective.
- Considering that the heavy metal concentrations in dam's water are potentially influenced by the geology of the area, the ANZG (2018) exceedance of copper is unlikely to be impacting freshwater aquatic ecosystems across the site and its surrounding.

Based on the results of the investigation, assessment of the potential risks, the site is currently considered suitable for the land uses permitted under the R2: Low Density Residential zoning from a contamination perspective, particularly the proposed residential development.

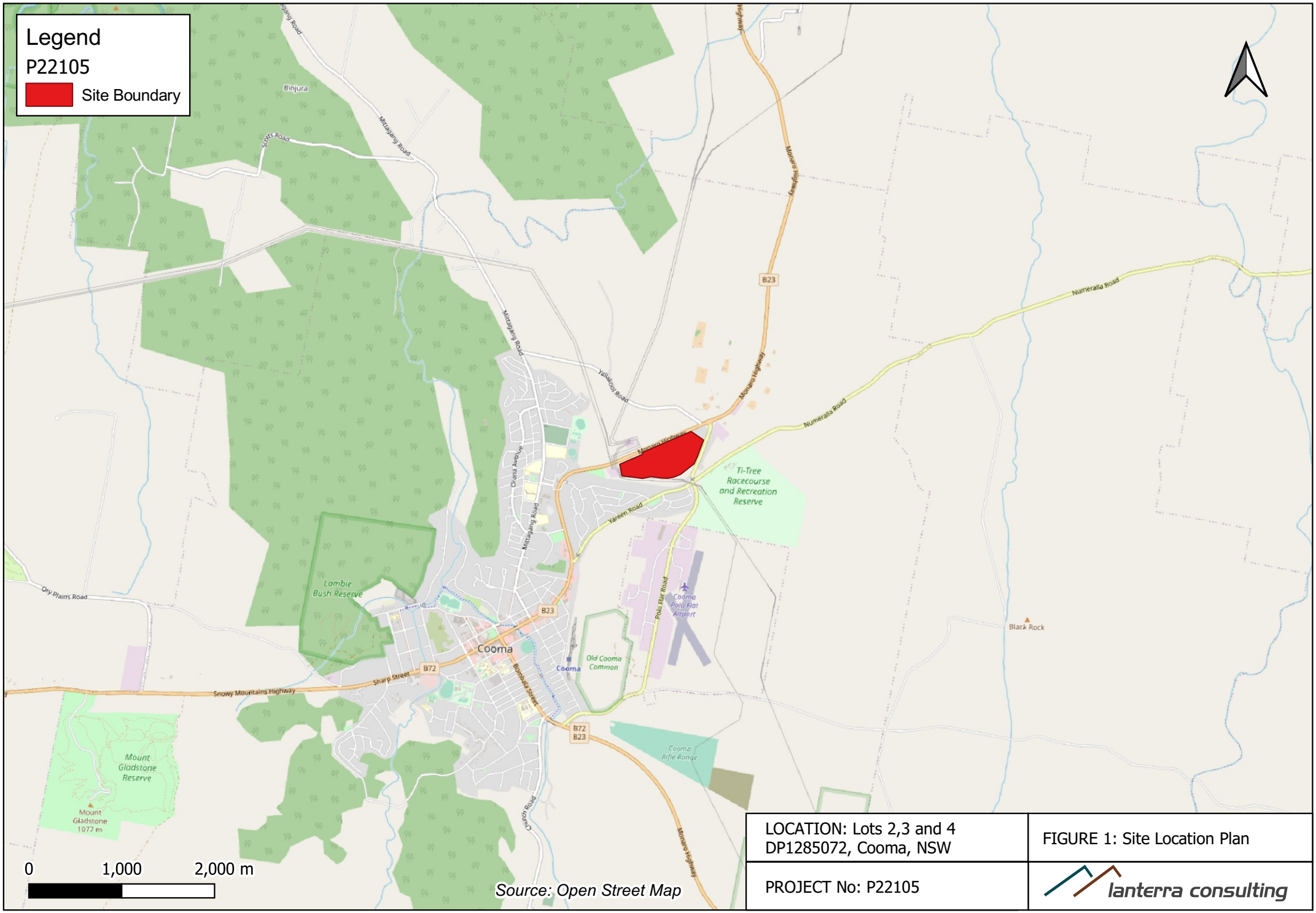
Based on the conclusions above, a construction environmental management plan (CEMP) which includes an unexpected finds protocol (UFP) to manage any unexpected occurrences of contamination should they be encountered during the development of the site should be prepared prior to any construction work commencing.

15. References

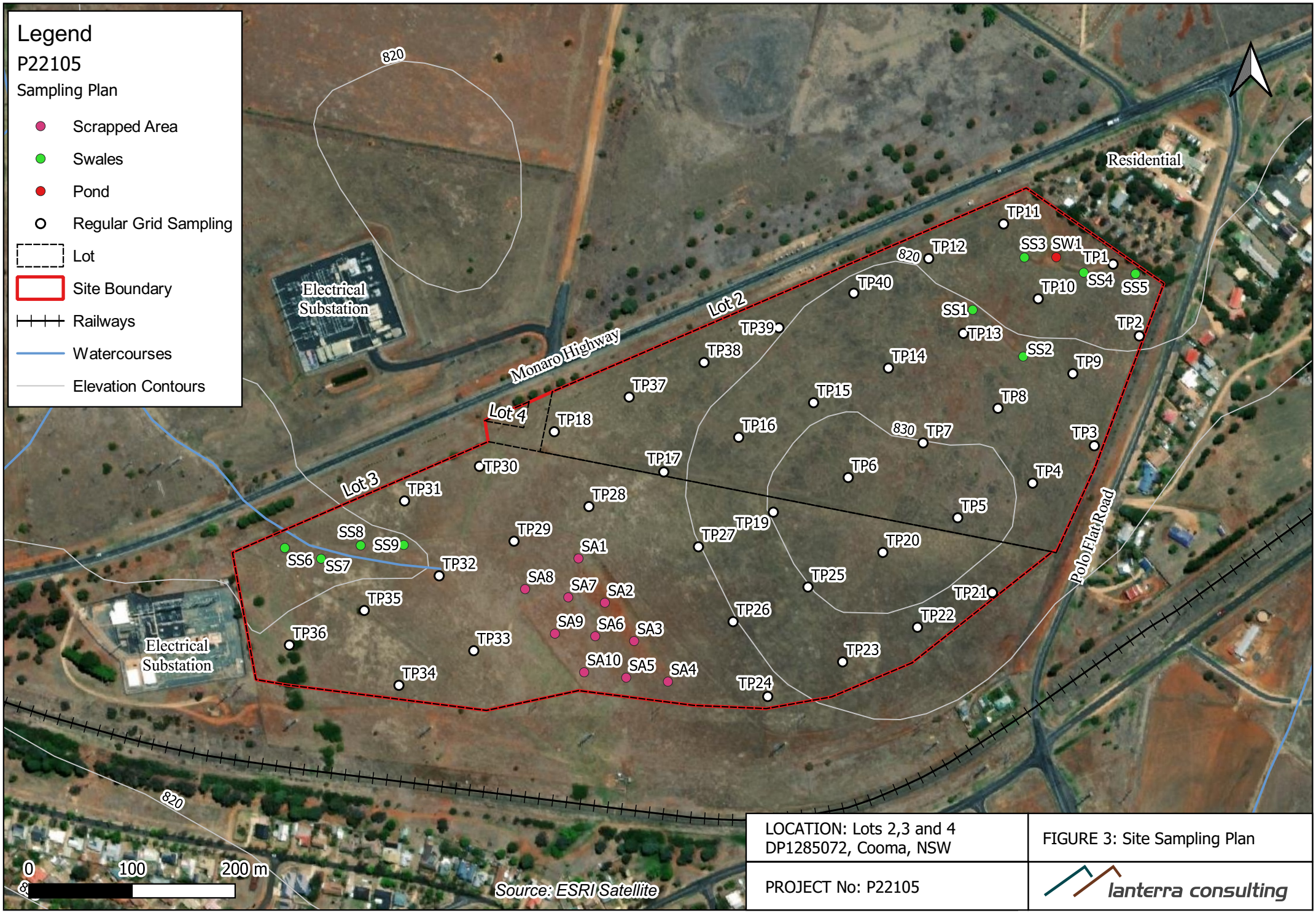
- ANZG (2018) Australian and New Zealand Guidelines for Fresh and Marine Water Quality. Australian and New Zealand Governments and Australian State and Territory Governments, Canberra ACT – Toxicant Default Guideline Values for 95% species protection in freshwater.
- National Environmental Protection Council (NEPC) (2013). National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended April 2013) (hereafter ASC NEPM 2013)
- ADWG (2011) NHRMC 2011, Australian Drinking Water Guideline – Version 3.7 (January 2022)
- Lanterra (2022) Preliminary Site Investigation, Lot 6 DP242762 and Lot 318 DP750535, Cooma, NSW.
- NSW EPA (2017) Guidelines for the NSW Site Auditor Scheme (3rd Ed.) (2017)
- NSW EPA (1995) Sampling Design Guidelines (1995)
- NSW EPA (2020) Contaminated Sites: Guidelines for Consultants Reporting on Contaminated Sites
- Standards Australia (2005). Guide to the investigation and sampling of sites with potentially contaminated soil. Part 1: Non-volatile and semi-volatile compounds AS4482.1 (2005) and Part 2: Volatile substances, AS4482.2 (2005).
- NSW EPA (2022) Contaminated Land Guidelines – Sampling Design Part 1 – Application.

Appendix A

Figures


Legend
P22105
Site Boundary
Binjura
Scotts Road
Mittagang Road
Monaro Highway
B23
Numeralla Road
Yallakool Road
Orana Avenue
Yareen Road
Ti-Tree Racecourse and Recreation Reserve
Lambie Bush Reserve
Dry Plains Road
Cooma
Cooma Polo Flat Airport
Pole Flat Road
Old Cooma Common
Black Rock
Sharp Street
B72
Snowy Mountains Highway
Bombala Street
Cooma Rifle Range
Mount Gladstone Reserve
Mount Gladstone 1077 m
Church Road
0
1,000
2,000 m
Source: Open Street Map
LOCATION: Lots 2,3 and 4 DP1285072, Cooma, NSW
FIGURE 1: Site Location Plan
PROJECT No: P22105
lanterra consulting


Legend
P22105
Lot
Site Boundary
Notable Finds
Railways
Watercourses
Elevation Contours
820
810
830
Electrical Substation
Monaro Highway
Lot 2
Lot 3
Lot 4
Residential
Dam and Swale
Bricks
Retention Swale
Polo Flat Road
Ground Tin Trough
Sewer Manhole
Potential Manhole
Concrete
Concrete Slab
Scrapped Area
Electrical Substation
Potential Manhole
Potential Manhole
0
100
200 m
Source: ESRI Satellite
LOCATION: Lots 2,3 and 4 DP1285072, Cooma, NSW
FIGURE 2: Detailed Site Location Plan and Layout
PROJECT No: P22105
lanterra consulting


Legend
P22105
Sampling Plan
Scrapped Area
Swales
Pond
Regular Grid Sampling
Lot
Site Boundary
Railways
Watercourses
Elevation Contours
Electrical Substation
Electrical Substation
Electrical Substation
Monaro Highway
Polo Flat Road
Residential
Lot 2
Lot 3
Lot 4
820
830
TP1
TP2
TP3
TP4
TP5
TP6
TP7
TP8
TP9
TP10
TP11
TP12
TP13
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TP36
TP37
TP38
TP39
TP40
SS1
SS2
SS3
SS4
SS5
SS6
SS7
SS8
SS9
SW1
SA1
SA2
SA3
SA4
SA5
SA6
SA7
SA8
SA9
SA10
0
100
200 m
Source: ESRI Satellite
LOCATION: Lots 2,3 and 4 DP1285072, Cooma, NSW
FIGURE 3: Site Sampling Plan
PROJECT No: P22105
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Appendix B

P22105 - Detailed Site Investigation, Lot 6 DP242762 and Lot 318 DP750535, Cooma, NSW

Table 1: Soil Analytical Results

								Field_ID	SS1	SS2	SS3	SS4	QC1	RPD	QC2	RPD	SS5	SS6	SS7	SS8	SS9	SA1 0.0-0.1	SA2 0.0-0.1	SA3 0.5-0.6	SA4 0.0-0.1
								Depth m	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1					0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.5-0.6	0.0-0.1
								Sampled-date	23/09/2022	23/09/2022	23/09/2022	23/09/2022					23/09/2022	23/09/2022	16/09/2022	16/09/2022	16/09/2022	16/09/2022	16/09/2022	16/09/2022	16/09/2022
								Fill/Natural																	
				PFAS National Environmental Management Plan Residential with Garden/Accessible Soil	ASC NEPM (2013) EIL/ESL Urban Residential and Public Open Space	ASC NEPM (2013) HSL A (mg/kg) 0.0-1.0m/1.0-2.0m/2.0-4.0m	ASC NEPM (2013) HIL A																			
Method_Type	**ChemName**	**Units**	**EQL**																							
Metals in soil	Arsenic, As	mg/kg	1		100		100		**4**	**3**	**3**	**3**	**5**	**50%**	<4	**0%**	**3**	**3**	**3**	**3**	**2**	**2**	**2**	**1**	**2**
	Cadmium, Cd	mg/kg	0.3				20		<0.3	<0.3	<0.3	<0.3	<0.3	0%	<0.4	0%	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
	Chromium, Cr	mg/kg	0.3		420		100		**67**	**55**	**71**	**52**	**52**	**0%**	**58**	**11%**	**56**	**56**	**51**	**60**	**50**	**46**	**66**	**27**	**55**
	Copper, Cu	mg/kg	0.5		230		6000		**43**	**30**	**40**	**43**	**36**	**18%**	**42**	**2%**	**33**	**33**	**34**	**36**	**30**	**43**	**22**	**21**	**29**
	Lead, Pb	mg/kg	1		1100		300		**7**	**9**	**12**	**24**	**41**	**52%**	**29**	**19%**	**30**	**10**	**10**	**14**	**10**	**4**	**4**	**2**	**4**
	Nickel, Ni	mg/kg	0.5		340		400		**88**	**46**	**90**	**77**	**56**	**32%**	**75**	**3%**	**59**	**80**	**76**	**68**	**69**	**150**	**130**	**88**	**150**
	Zinc, Zn	mg/kg	2		510		7400		**44**	**50**	**59**	**110**	**170**	**43%**	**110**	**0%**	**130**	**79**	**58**	**75**	**48**	**38**	**48**	**23**	**49**
	Mercury	mg/kg	0.05				40		<0.05	<0.05	<0.05	<0.05	<0.05	0%	<0.1	0%	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Organochlorine Pesticides	Hexachlorobenzene (HCB)	mg/kg	0.1				10		<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Alpha BHC	mg/kg	0.1						<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Lindane	mg/kg	0.1						<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Heptachlor	mg/kg	0.1				6		<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Aldrin	mg/kg	0.1				6		<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Beta BHC	mg/kg	0.1						<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Delta BHC	mg/kg	0.1						<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Heptachlor epoxide	mg/kg	0.1						<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	o,p'-DDE	mg/kg	0.1						<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Alpha Endosulfan	mg/kg	0.2				270		<0.2	<0.2	<0.2	<0.2	N.A.	-	N.A.	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	Gamma Chlordane	mg/kg	0.1				50		<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Alpha Chlordane	mg/kg	0.1				50		<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	trans-Nonachlor	mg/kg	0.1						<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	p,p'-DDE	mg/kg	0.1						<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Dieldrin	mg/kg	0.2				6		<0.2	<0.2	<0.2	<0.2	N.A.	-	N.A.	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	Endrin	mg/kg	0.2				10		<0.2	<0.2	<0.2	<0.2	N.A.	-	N.A.	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	o,p'-DDD	mg/kg	0.1						<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	o,p'-DDT	mg/kg	0.1						<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Beta Endosulfan	mg/kg	0.2						<0.2	<0.2	<0.2	<0.2	N.A.	-	N.A.	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	p,p'-DDD	mg/kg	0.1				240		<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	p,p'-DDT	mg/kg	0.1		180		240		<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Endosulfan sulphate	mg/kg	0.1						<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Endrin Aldehyde	mg/kg	0.1				10		<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Methoxychlor	mg/kg	0.1				300		<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Endrin Ketone	mg/kg	0.1						<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Isodrin	mg/kg	0.1						<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Mirex	mg/kg	0.1				10		<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Organophosphorus Pesticides	Dichlorvos	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	N.A.	-	N.A.	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Dimethoate	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	N.A.	-	N.A.	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Diazinon (Dimpylate)	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	N.A.	-	N.A.	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fenitrothion	mg/kg	0.2						<0.2	<0.2	<0.2	<0.2	N.A.	-	N.A.	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	Malathion	mg/kg	0.2						<0.2	<0.2	<0.2	<0.2	N.A.	-	N.A.	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2				160		<0.2	<0.2	<0.2	<0.2	N.A.	-	N.A.	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	Parathion-ethyl (Parathion)	mg/kg	0.2						<0.2	<0.2	<0.2	<0.2	N.A.	-	N.A.	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	Bromophos Ethyl	mg/kg	0.2						<0.2	<0.2	<0.2	<0.2	N.A.	-	N.A.	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	Methidathion	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	N.A.	-	N.A.	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethion	mg/kg	0.2						<0.2	<0.2	<0.2	<0.2	N.A.	-	N.A.	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	Azinphos-methyl (Guthion)	mg/kg	0.2						<0.2	<0.2	<0.2	<0.2	N.A.	-	N.A.	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
PAHs in Soil	Naphthalene	mg/kg	0.1		170			5/NL/NL	<0.1	<0.1	<0.1	<0.1	<0.1	0%	<0.1	0%	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	2-methylnaphthalene	mg/kg	0.1						<0.1	<0.1	<0.1	<0.1	<0.1	0%	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	1-methylnaphthalene	mg/kg	0.1						<0.1	<0.1	<0.1	<0.1	<0.1	0%	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Acenaphthylene	mg/kg	0.1						<0.1	<0.1	<0.1	<0.1	<0.1	0%	<0.1	0%	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Acenaphthene	mg/kg	0.1						<0.1	<0.1	<0.1	<0.1	<0.1	0%	<0.1	0%	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Fluorene	mg/kg	0.1						<0.1	<0.1	<0.1	<0.1	<0.1	0%	<0.1	0%	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Phenanthrene	mg/kg	0.1						<0.1	<0.1	<0.1	<0.1	<0.1	0%	<0.1	0%	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Anthracene	mg/kg	0.1						<0.1	<0.1	<0.1	<0.1	<0.1	0%	<0.1	0%	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Fluoranthene	mg/kg	0.1						<0.1	<0.1	<0.1	<0.1	<0.1	0%	<0.1	0%	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Pyrene	mg/kg	0.1						<0.1	<0.1	<0.1	<0.1	<0.1	0%	<0.1	0%	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Benzo(a)anthracene	mg/kg	0.1						<0.1	<0.1	<0.1	<0.1	<0.1	0%	<0.1	0%	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Chrysene	mg/kg	0.1						<0.1	<0.1	<0.1	<0.1	<0.1	0%	<0.1	0%	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

P22105 - Detailed Site Investigation, Lot 6 DP242762 and Lot 318 DP750535, Cooma, NSW

Table 1: Soil Analytical Results

								Field_ID	SS1	SS2	SS3	SS4	QC1	RPD	QC2	RPD	SS5	SS6	SS7	SS8	SS9	SA1 0.0-0.1	SA2 0.0-0.1	SA3 0.5-0.6	SA4 0.0-0.1							
								Depth m	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1					0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.5-0.6	0.0-0.1							
								Sampled-date	23/09/2022	23/09/2022	23/09/2022	23/09/2022					23/09/2022	23/09/2022	16/09/2022	16/09/2022	16/09/2022	16/09/2022	16/09/2022	16/09/2022	16/09/2022							
								Fill/Natural																								
				PFAS National Environmental Management Plan Residential with Garden/Accessible Soil	ASC NEPM (2013) Ell/ESL Urban Residential and Public Open Space	ASC NEPM (2013) HSL A (mg/kg) 0.0-1.0m/1.0-2.0m/2.0-4.0m	ASC NEPM (2013) HIL A																									
Method_Type	ChemName	Units	EQL																												
	Benzo(bk)fluoranthene	mg/kg	0.1						<0.1	<0.1	<0.1	<0.1	<0.1	0%	<0.2	0%	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1							
	Benzo(j)fluoranthene	mg/kg	0.1						<0.1	<0.1	<0.1	<0.1	<0.1	0%	<0.2	0%	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1							
	Benzo(a)pyrene	mg/kg	0.1		0.7				<0.1	<0.1	<0.1	<0.1	<0.1	0%	<0.05	0%	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1							
	Indeno(1,2,3-cd)pyrene	mg/kg	0.1						<0.1	<0.1	<0.1	<0.1	<0.1	0%	<0.1	0%	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1							
	Dibenzo(ah)anthracene	mg/kg	0.1						<0.1	<0.1	<0.1	<0.1	<0.1	0%	<0.1	0%	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1							
	Benzo(ghi)perylene	mg/kg	0.1						<0.1	<0.1	<0.1	<0.1	<0.1	0%	<0.1	0%	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1							
	Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ (mg/kg)	0.2				3		<0.2	<0.2	<0.2	<0.2	<0.2	0%	<0.5	0%	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2							
	Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	0.3				3		<0.3	<0.3	<0.3	<0.3	<0.3	0%	<0.5	0%	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3							
	Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2				3		<0.2	<0.2	<0.2	<0.2	<0.2	0%	<0.5	0%	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2							
	Total PAH (18)	mg/kg	0.8				300		<0.8	<0.8	<0.8	<0.8	<0.8	0%	<0.05	0%	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8							
PCBs in Soil	Arochlor 1016	mg/kg	0.2						<0.2	<0.2	<0.2	<0.2	N.A.	-	N.A.	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2							
	Arochlor 1221	mg/kg	0.2						<0.2	<0.2	<0.2	<0.2	N.A.	-	N.A.	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2							
	Arochlor 1232	mg/kg	0.2						<0.2	<0.2	<0.2	<0.2	N.A.	-	N.A.	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2							
	Arochlor 1242	mg/kg	0.2						<0.2	<0.2	<0.2	<0.2	N.A.	-	N.A.	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2							
	Arochlor 1248	mg/kg	0.2						<0.2	<0.2	<0.2	<0.2	N.A.	-	N.A.	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2							
	Arochlor 1254	mg/kg	0.2						<0.2	<0.2	<0.2	<0.2	N.A.	-	N.A.	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2							
	Arochlor 1260	mg/kg	0.2						<0.2	<0.2	<0.2	<0.2	N.A.	-	N.A.	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2							
	Arochlor 1262	mg/kg	0.2						<0.2	<0.2	<0.2	<0.2	N.A.	-	N.A.	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2							
	Arochlor 1268	mg/kg	0.2						<0.2	<0.2	<0.2	<0.2	N.A.	-	N.A.	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2							
	Total PCBs (Arochlors)	mg/kg	1				1		<1	<1	<1	<1	N.A.	-	N.A.	-	<1	<1	<1	<1	<1	<1	<1	<1	<1							
TRH Soil C10-C40 NEPM	TRH C10-C14	mg/kg	20						<20	<20	<20	<20	<20	0%	<50	0%	<20	<20	<20	<20	<20	<20	<20	<20	<20							
	TRH C15-C28	mg/kg	45						<45	<45	<45	<45	<45	0%	<100	0%	<45	<45	<45	<45	<45	<45	<45	<45	<45							
	TRH C29-C36	mg/kg	45						<45	<45	<45	<45	<45	0%	<100	0%	<45	<45	<45	<45	<45	<45	<45	<45	<45							
	TRH C37-C40	mg/kg	100						<100	<100	<100	<100	<100	0%	-	-	<100	<100	<100	<100	<100	<100	<100	<100	<100							
	TRH >C10-C16	mg/kg	25						<25	<25	<25	<25	<25	0%	<50	0%	<25	<25	<25	<25	<25	<25	<25	<25	<25							
	TRH >C10-C16 - Naphthalene (F2)	mg/kg	25		120	280/NL/NL			<25	<25	<25	<25	<25	0%	<50	0%	<25	<25	<25	<25	<25	<25	<25	<25	<25							
	TRH >C16-C34 (F3)	mg/kg	90		1300				<90	<90	<90	<90	<90	0%	<100	0%	<90	<90	<90	<90	<90	<90	<90	<90	<90							
	TRH >C34-C40 (F4)	mg/kg	120		5600				<120	<120	<120	<120	<120	0%	<100	0%	<120	<120	<120	<120	<120	<120	<120	<120	<120							
	TRH C10-C36 Total	mg/kg	110						<110	<110	<110	<110	<110	0%	-	-	<110	<110	<110	<110	<110	<110	<110	<110	<110							
	TRH >C10-C40 Total (F bands)	mg/kg	210						<210	<210	<210	<210	<210	0%	<50	0%	<210	<210	<210	<210	<210	<210	<210	<210	<210							
BTEX + VOC	Benzene	mg/kg	0.1		65	0.7/1/2			<0.1	<0.1	<0.1	<0.1	<0.1	0%	<0.2	0%	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1							
	Toluene	mg/kg	0.1		105	480/NL/NL			<0.1	<0.1	<0.1	<0.1	<0.1	0%	<0.5	0%	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1							
	Ethylbenzene	mg/kg	0.1		125	NL/NL/NL			<0.1	<0.1	<0.1	<0.1	<0.1	0%	<1	0%	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1							
	m/p-xylene	mg/kg	0.2						<0.2	<0.2	<0.2	<0.2	<0.2	0%	<2	0%	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2							
	o-xylene	mg/kg	0.1						<0.1	<0.1	<0.1	<0.1	<0.1	0%	<1	0%	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1							
	Total Xylenes	mg/kg	0.3		45	110/310/NL			<0.3	<0.3	<0.3	<0.3	<0.3	0%	<3	0%	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3							
	Total BTEX	mg/kg	0.6						<0.6	<0.6	<0.6	<0.6	<0.6	0%	N.A.	-	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6							
	Benzene (F0)	mg/kg	20			0.7/1/2			<0.1	<0.1	<0.1	<0.1	<0.1	0%	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1							
	TRH C6-C9	mg/kg	0.1						<20	<20	<20	<20	<20	0%	<25	0%	<20	<20	<20	<20	<20	<20	<20	<20	<20							
	TRH C6-C10	mg/kg	25						<25	<25	<25	<25	<25	0%	<25	0%	<25	<25	<25	<25	<25	<25	<25	<25	<25							
	TRH C6-C10 minus BTEX (F1)	mg/kg	25		180	50/90/150			<25	<25	<25	<25	<25	0%	<25	0%	<25	<25	<25	<25	<25	<25	<25	<25	<25							
Speciated Phenol	Phenol	mg/kg	0.5				3000		<0.5	<0.5	<0.5	<0.5	N.A.	-	N.A.	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
	2-methyl phenol (o-cresol)	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	N.A.	-	N.A.	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
	3/4-methyl phenol (m/p-cresol)	mg/kg	1						<1	<1	<1	<1	N.A.	-	N.A.	-	<1	<1	<1	<1	<1	<1	<1	<1	<1							
	Total Cresol	mg/kg	1.5				400		<1.5	<1.5	<1.5	<1.5	N.A.	-	N.A.	-	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5							
	2-chlorophenol	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	N.A.	-	N.A.	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
	2,4-dimethylphenol	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	N.A.	-	N.A.	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
	2,6-dichlorophenol	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	N.A.	-	N.A.	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
	2,4-dichlorophenol	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	N.A.	-	N.A.	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
	2,4,6-trichlorophenol	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	N.A.	-	N.A.	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
	2-nitrophenol	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	N.A.	-	N.A.	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
	4-nitrophenol	mg/kg	1						<1	<1	<1	<1	N.A.	-	N.A.	-	<1	<1	<1	<1	<1	<1	<1	<1	<1							
	2,4,5-trichlorophenol	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	N.A.	-	N.A.	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
	2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1						<1	<1	<1	<1	N.A.	-	N.A.	-	<1	<1	<1	<1	<1	<1	<1	<1	<1							
	Pentachlorophenol	mg/kg	0.5				100		<0.5	<0.5	<0.5	<0.5	N.A.	-	N.A.	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
	2,4-dinitrophenol	mg/kg	2						<2	<2	<2	<2	N.A.	-	N.A.	-	<2	<2	<2	<2	<2	<2	<2	<2	<2							
	4-chloro-3-methylphenol	mg/kg	2						<2	<2	<2	<2	N.A.	-	N.A.	-	<2	<2	<2	<2	<2	<2	<2	<2	<2							
PFAS	Perfluorobutanoic acid (PFBA)	mg/kg	0.0001						N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A.	-	N.A.	<0.0016	<0.0016	<0.0016	<0.0016	N.A.	N.A.	N.A.	N.A.							
	Perfluoropentanoic acid (PFPeA)	mg/kg	0.0005						N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A.	-	N.A.	<0.0016	<0.0016	<0.0016	<0.0016	N.A.	N.A.	N.A.	N.A.							
	Perfluorohexanoic acid (PFHxA)	mg/kg	0.0001						N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A.	-	N.A.	<0.0016	<0.0016	<0.0016	<0.0016	N.A.	N.A.	N.A.	N.A.							
	Perfluoroheptanoic acid (PFHpA)	mg/kg	0.0001						N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A.	-	N.A.	<0.0016	<0.0016	<0.0016	<0.0016	N.A.	N.A.	N.A.	N.A.							
	Perfluorooctanoic Acid (PFOA)	mg/kg	0.0001	0.1					N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A.	-	N.A.	<0.0008	<0.0008	<0.0008	<0.0008	N.A.	N.A.	N.A.	N.A.							
	Perfluorononanoic acid (PFNA)	mg/kg	0.0001						N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A.	-	N.A.	<0.0016	<0.0016	<0.0016	<0.0016	N.A.	N.A.	N.A.	N.A.							
	Perfluorodecanoic acid (PFDA)	mg/kg	0.0001						N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A.	-	N.A.	<0.0016	<0.0016	<0.0016	<0.0016	N.A.	N.A.	N.A.	N.A.							
	Perfluoroundecanoic acid (PFUnA)	mg/kg	0.0001						N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A.	-	N.A.	<0.0016	<0.0016	<0.0016	<0.0016	N.A.	N.A.	N.A.	N.A.							
	Perfluorododecanoic acid (PFDoA)	mg/kg	0.0001						N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A.	-	N.A.	<0.0016	<0.0016	<0.0016	<0.0016	N.A.	N.A.	N.A.	N.A.							
	Perfluorotridecanoic acid (PFTrDA)	mg/kg	0.0001						N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A.	-	N.A.	<0.0016	<0.0016	<0.0016	<0.0016	N.A.	N.A.	N.A.	N.A.							
	Perfluorotetradecanoic acid (PFTeDA)	mg/kg	0.0001						N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A.	-	N.A.	<0.0016	<0.0016	<0.0016	<0.0016	N.A.	N.A.	N.A.	N.A.							
	Perfluorohexadecanoic acid (PFHxDA)	mg/kg	0.0001						N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A.	-	N.A.	<0.0032	<0.0032	<0.0032	<0.0032	N.A.	N.A.	N.A.	N.A.							
	Perfluorobutane sulfonate (PFBS)	mg/kg	0.0001						N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A.	-	N.A.	<0.0016	<0.0016	<0.0016	<0.0016	N.A.	N.A.	N.A.	N.A.							
	Perfluoropentane sulfonate (PFPeS)	mg/kg	0.0001						N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A.	-	N.A.	<0.0016	<0.0016	<0.0016	<0.0016	N.A.	N.A.	N.A.	N.A.							
	Perfluorohexane sulfonate (PFHxS)	mg/kg	0.0001						N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A.	-	N.A.	<0.0016	<0.0016	<0.0016	<0.0016	N.A.	N.A.	N.A.	N.A.							
	Perfluoroheptane sulfonate (PFHpS)	mg/kg	0.0001						N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A.	-	N.A.	<0.0016	<0.0016	<0.0016	<0.0016	N.A.	N.A.	N.A.	N.A.							
	Perfluorooctane sulfonate (PFOS)	mg/kg	0.0001						N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A.	-	N.A.	<0.0016	<0.0016	<0.0016	<0.0016	N.A.	N.A.	N.A.	N.A.							
	Sum PFOS and PFHXS	mg/kg	0.0001	0.01					N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A.	-	N.A.	<0.0016	<0.0016	<0.0016	<0.0016	N.A.	N.A.	N.A.	N.A.							
	Perfluorononane sulfonate (PFNS)	mg/kg	0.0001						N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A.	-	N.A.	<0.0016	<0.0016	<0.0016	<0.0016	N.A.	N.A.	N.A.	N.A.							
	Perfluorodecane sulfonate (PFDS)	mg/kg	0.0001						N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A.	-	N.A.	<0.0016	<0.0016	<0.0016	<0.0016	N.A.	N.A.	N.A.	N.A.							
	Perfluorododecane sulfonate (PFDoS)	mg/kg	0.0001						N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A.	-	N.A.	<0.0016	<0.0016	<0.0016	<0.0016	N.A.	N.A.	N.A.	N.A.							
	1H,1H,2H,2H-Perfluorohexane sulfonate (4	mg/kg	0.0010						N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A.	-	N.A.	<0.0016	<0.0016	<0.0016	<0.0016	N.A.	N.A.	N.A.	N.A.							
	1H,1H,2H,2H-Perfluorooctane sulfonate (6	mg/kg	0.0010						N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A.	-	N.A.	<0.0016	<0.0016	<0.0016	<0.0016	N.A.	N.A.	N.A.	N.A.							
	1H,1H,2H,2H-Perfluorodecane sulfonate (8	mg/kg	0.0010						N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A.	-	N.A.	<0.0016	<0.0016	<0.0016	<0.0016	N.A.	N.A.	N.A.	N.A.							
	Perfluorooctane sulfonamide (PFOSA)	mg/kg	0.0010						N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A.	-	N.A.	<0.0016	<0.0016	<0.0016	<0.0016	N.A.	N.A.	N.A.	N.A.							
	N-Methylperfluorooctane sulfonamide (N-M	mg/kg	0.0010						N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A.	-	N.A.	<0.008	<0.008	<0.008	<0.008	N.A.	N.A.	N.A.	N.A.							
	N-Ethylperfluorooctane sulfonamide (N-EtFO	mg/kg	0.0010						N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A.	-	N.A.	<0.008	<0.008	<0.008	<0.008	N.A.	N.A.	N.A.	N.A.							
	2-(N-Methylperfluorooctane sulfonamido)-(	mg/kg	0.0020						N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A.	-	N.A.	<0.016	<0.016	<0.016	<0.016	N.A.	N.A.	N.A.	N.A.							
	2-(N-Ethylperfluorooctane sulfonamido)-etl	mg/kg	0.0020						N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A.	-	N.A.	<0.016	<0.016	<0.016	<0.016	N.A.	N.A.	N.A.	N.A.							
	N-Methylperfluorooctanesulfonamidoacetic	mg/kg	0.0010						N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A.	-	N.A.	<0.008	<0.008	<0.008	<0.008	N.A.	N.A.	N.A.	N.A.							
	N-Ethylperfluorooctanesulfonamidoacetic A	mg/kg	0.0010						N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A.	-	N.A.	<0.008	<0.008	<0.008	<0.008	N.A.	N.A.	N.A.	N.A.							
Physicochemical Properties	pH	No unit	0.1						N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A.	-	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.							
	CEC	cmol/kg	1						N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A.	-	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.							
	%Clay (<75 um)	%w/w	0.1						N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A.	-	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.							

P22105 - Detailed Site Investigation, Lot 6 DP242762 and Lot 318 DP750535, Cooma, NSW

Table 1: Soil Analytical Results

								Field_ID	SA5 0.0-0.1	QC7	RPD	QC8	RPD	SA6 0.5-0.6	SA7 0.0-0.1	SA8 0.0-0.1	SA9 0.5-0.6	SA10 0.0-0.1	TP1 0.0-0.1	TP2 0.0-0.2	TP3 0.0-0.1	TP4 0.0-0.1	TP5 0.0-0.1	TP6 0.0-0.1	TP8 0.0-0.1	TP10 0.0-0.1	TP11 0.0-0.1	QC3	RPD	QC4	RPD
								Depth m	0.0-0.1					0.5-0.6	0.0-0.1	0.0-0.1	0.5-0.6	0.0-0.1	0.0-0.1	0.0-0.2	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1				
								Sampled-date	16/09/2022					16/09/2022	16/09/2022	16/09/2022	16/09/2022	16/09/2022	15/09/2022	15/09/2022	15/09/2022	15/09/2022	15/09/2022	15/09/2022	15/09/2022	15/09/2022	15/09/2022				
								Fill/Natural																						
				PFAS National Environmental Management Plan Residential with Garden/Accessible Soil	ASC NEPM (2013) EIL/ESL Urban Residential and Public Open Space	ASC NEPM (2013) HSL A (mg/kg) 0.0-1.0m/1.0-2.0m/2.0-4.0m	ASC NEPM (2013) HIL A																								
Method_Type	ChemName	Units	EQL																											
Metals in soil	Arsenic, As	mg/kg	1		100		100	3	2	40%	<4	0%	2	2	2	3	2	3	2	3	3	3	2	1	3	2	3	40%	<4	0%
	Cadmium, Cd	mg/kg	0.3				20	<0.3	<0.3	0%	<0.4	0%	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0%	<0.4	0%
	Chromium, Cr	mg/kg	0.3		420		100	52	55	6%	51	2%	46	43	51	51	47	50	49	49	78	100	45	31	49	60	69	14%	70	15%
	Copper, Cu	mg/kg	0.5		230		6000	36	29	22%	41	13%	25	22	30	38	24	30	23	29	40	49	57	46	30	34	40	16%	42	21%
	Lead, Pb	mg/kg	1		1100		300	8	4	67%	5	46%	5	5	5	8	6	6	9	7	7	7	3	2	7	7	6	15%	7	0%
	Nickel, Ni	mg/kg	0.5		340		400	51	130	87%	120	81%	46	42	62	55	46	54	36	76	49	71	130	89	47	89	100	12%	75	17%
	Zinc, Zn	mg/kg	2		510		7400	43	49	13%	41	5%	34	29	38	49	31	32	34	32	34	31	54	27	38	40	46	14%	110	93%
	Mercury	mg/kg	0.05				40	0.08	<0.05	0%	<0.1	0%	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0%	<0.1	0%
Organochlorine Pesticides	Hexachlorobenzene (HCB)	mg/kg	0.1				10	<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-
	Alpha BHC	mg/kg	0.1					<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-
	Lindane	mg/kg	0.1					<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-
	Heptachlor	mg/kg	0.1				6	<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-
	Aldrin	mg/kg	0.1				6	<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-
	Beta BHC	mg/kg	0.1					<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-
	Delta BHC	mg/kg	0.1					<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-
	Heptachlor epoxide	mg/kg	0.1					<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-
	o,p'-DDE	mg/kg	0.1					<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-
	Alpha Endosulfan	mg/kg	0.2				270	<0.2	N.A.	-	N.A.	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	N.A.	-	N.A.	-
	Gamma Chlordane	mg/kg	0.1				50	<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-
	Alpha Chlordane	mg/kg	0.1				50	<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-
	trans-Nonachlor	mg/kg	0.1					<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-
	p,p'-DDE	mg/kg	0.1					<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-
	Dieldrin	mg/kg	0.2				6	<0.2	N.A.	-	N.A.	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	N.A.	-	N.A.	-
	Endrin	mg/kg	0.2				10	<0.2	N.A.	-	N.A.	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	N.A.	-	N.A.	-
	o,p'-DDD	mg/kg	0.1					<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-
	o,p'-DDT	mg/kg	0.1					<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-
	Beta Endosulfan	mg/kg	0.2					<0.2	N.A.	-	N.A.	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	N.A.	-	N.A.	-
	p,p'-DDD	mg/kg	0.1				240	<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-
	p,p'-DDT	mg/kg	0.1		180		240	<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-
	Endosulfan sulphate	mg/kg	0.1					<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-
	Endrin Aldehyde	mg/kg	0.1				10	<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-
	Methoxychlor	mg/kg	0.1				300	<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-
	Endrin Ketone	mg/kg	0.1					<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-
	Isodrin	mg/kg	0.1					<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-
	Mirex	mg/kg	0.1				10	<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-
Organophosphorus Pesticides	Dichlorvos	mg/kg	0.5					<0.5	N.A.	-	N.A.	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	N.A.	-	N.A.	-
	Dimethoate	mg/kg	0.5					<0.5	N.A.	-	N.A.	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	N.A.	-	N.A.	-
	Diazinon (Dimpylate)	mg/kg	0.5					<0.5	N.A.	-	N.A.	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	N.A.	-	N.A.	-
	Fenitrothion	mg/kg	0.2					<0.2	N.A.	-	N.A.	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	N.A.	-	N.A.	-
	Malathion	mg/kg	0.2					<0.2	N.A.	-	N.A.	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	N.A.	-	N.A.	-
	Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2				160	<0.2	N.A.	-	N.A.	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	N.A.	-	N.A.	-
	Parathion-ethyl (Parathion)	mg/kg	0.2					<0.2	N.A.	-	N.A.	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	N.A.	-	N.A.	-
	Bromophos Ethyl	mg/kg	0.2					<0.2	N.A.	-	N.A.	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	N.A.	-	N.A.	-
	Methidathion	mg/kg	0.5					<0.5	N.A.	-	N.A.	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	N.A.	-	N.A.	-
	Ethion	mg/kg	0.2					<0.2	N.A.	-	N.A.	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	N.A.	-	N.A.	-
	Azinphos-methyl (Guthion)	mg/kg	0.2					<0.2	N.A.	-	N.A.	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	N.A.	-	N.A.	-
PAHs in Soil	Naphthalene	mg/kg	0.1		170	5/NL/NL		<0.1	<0.1	0%	<0.1	0%	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0%	<0.1	0%
	2-methylnaphthalene	mg/kg	0.1					<0.1	<0.1	0%	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0%	N.A.	-
	1-methylnaphthalene	mg/kg	0.1					<0.1	<0.1	0%	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0%	N.A.	-
	Acenaphthylene	mg/kg	0.1					<0.1	<0.1	0%	<0.1	0%	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0%	<0.1	0%
	Acenaphthene	mg/kg	0.1					<0.1	<0.1	0%	<0.1	0%	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0%	<0.1	0%
	Fluorene	mg/kg	0.1					<0.1	<0.1	0%	<0.1	0%	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0%	<0.1	0%
	Phenanthrene	mg/kg	0.1					<0.1	<0.1	0%	<0.1	0%	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0%	<0.1	0%
	Anthracene	mg/kg	0.1					<0.1	<0.1	0%	<0.1	0%	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0%	<0.1	0%
	Fluoranthene	mg/kg	0.1					<0.1	<0.1	0%	<0.1	0%	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0%	<0.1	0%
	Pyrene	mg/kg	0.1					<0.1	<0.1	0%	<0.1	0%	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0%	<0.1	0%
	Benzo(a)anthracene	mg/kg	0.1					<0.1	<0.1	0%	<0.1	0%	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0%	<0.1	0%
	Chrysene	mg/kg	0.1					<0.1	<0.1	0%	<0.1	0%	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0%	<0.1	0%

P22105 - Detailed Site Investigation, Lot 6 DP242762 and Lot 318 DP750535, Cooma, NSW

Table 1: Soil Analytical Results

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P22105 - Detailed Site Investigation, Lot 6 DP242762 and Lot 318 DP750535, Cooma, NSW

Table 1: Soil Analytical Results

							Field_ID	TP12 0.0-0.1	TP13 0.0-0.1	TP14 0.0-0.1	TP15 0.0-0.1	TP16 0.0-0.1	TP17 0.0-0.1	TP18 0.0-0.1	TP19 0.0-0.1	TP20 0.0-0.1	TP21 0.0-0.1	TP22 0.0-0.1	QC5	RPD	QC6	RPD	TP23 0.0-0.1	TP24 0.0-0.1	TP25 0.0-0.1	TP26 0.0-0.1	TP27 0.0-0.1	TP28 0.0-0.1	TP29 0.0-0.1	TP30 0.0-0.1
							Depth m	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1					0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1
							Sampled-date	15/09/2022	15/09/2022	15/09/2022	15/09/2022	15/09/2022	15/09/2022	15/09/2022	15/09/2022	15/09/2022	15/09/2022	15/09/2022					15/09/2022	15/09/2022	15/09/2022	15/09/2022	15/09/2022	15/09/2022	15/09/2022	15/09/2022
							Fill/Natural																						
				PFAS National Environmental Management Plan Residential with Garden/Accessible Soil	ASC NEPM (2013) EIL/ESL Urban Residential and Public Open Space	ASC NEPM (2013) HSL A (mg/kg) 0.0-1.0m/1.0-2.0m/2.0-4.0m	ASC NEPM (2013) HIL A																							
Method_Type	ChemName	Units	EQL																										
Metals in soil	Arsenic, As	mg/kg	1		100		100	3	3	2	2	2	2	2	4	2	2	3	3	0%	<4	0%	2	2	2	3	2	1	2	2
	Cadmium, Cd	mg/kg	0.3				20	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0%	<0.4	0%	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
	Chromium, Cr	mg/kg	0.3		420		100	76	60	67	51	59	60	45	54	56	71	68	79	15%	81	17%	63	50	56	62	81	67	48	50
	Copper, Cu	mg/kg	0.5		230		6000	42	36	57	34	43	49	19	32	47	36	46	53	14%	55	18%	44	34	61	39	51	37	26	20
	Lead, Pb	mg/kg	1		1100		300	7	7	4	4	4	4	9	7	5	7	6	6	0%	6	0%	5	7	3	7	5	12	5	6
	Nickel, Ni	mg/kg	0.5		340		400	93	67	120	110	120	130	51	92	88	48	75	83	10%	80	6%	66	70	95	62	150	100	58	50
	Zinc, Zn	mg/kg	2		510		7400	45	34	36	42	43	42	38	63	58	33	51	57	11%	46	10%	44	49	49	42	59	48	39	33
	Mercury	mg/kg	0.05				40	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0%	<0.1	0%	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Organochlorine Pesticides	Hexachlorobenzene (HCB)	mg/kg	0.1				10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Alpha BHC	mg/kg	0.1					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Lindane	mg/kg	0.1					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Heptachlor	mg/kg	0.1				6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Aldrin	mg/kg	0.1				6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Beta BHC	mg/kg	0.1					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Delta BHC	mg/kg	0.1					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Heptachlor epoxide	mg/kg	0.1					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	o,p'-DDE	mg/kg	0.1					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Alpha Endosulfan	mg/kg	0.2				270	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	N.A.	-	N.A.	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	Gamma Chlordane	mg/kg	0.1				50	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Alpha Chlordane	mg/kg	0.1				50	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	trans-Nonachlor	mg/kg	0.1					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	p,p'-DDE	mg/kg	0.1					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Dieldrin	mg/kg	0.2				6	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	N.A.	-	N.A.	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	Endrin	mg/kg	0.2				10	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	N.A.	-	N.A.	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	o,p'-DDD	mg/kg	0.1					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	o,p'-DDT	mg/kg	0.1					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Beta Endosulfan	mg/kg	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	N.A.	-	N.A.	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	p,p'-DDD	mg/kg	0.1				240	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	p,p'-DDT	mg/kg	0.1		180		240	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Endosulfan sulphate	mg/kg	0.1					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Endrin Aldehyde	mg/kg	0.1				10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Methoxychlor	mg/kg	0.1				300	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Endrin Ketone	mg/kg	0.1					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Isodrin	mg/kg	0.1					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Mirex	mg/kg	0.1				10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Organophosphorus Pesticides	Dichlorvos	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	N.A.	-	N.A.	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Dimethoate	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	N.A.	-	N.A.	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Diazinon (Dimpylate)	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	N.A.	-	N.A.	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fenitrothion	mg/kg	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	N.A.	-	N.A.	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	Malathion	mg/kg	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	N.A.	-	N.A.	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2				160	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	N.A.	-	N.A.	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	Parathion-ethyl (Parathion)	mg/kg	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	N.A.	-	N.A.	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	Bromophos Ethyl	mg/kg	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	N.A.	-	N.A.	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	Methidathion	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	N.A.	-	N.A.	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethion	mg/kg	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	N.A.	-	N.A.	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	Azinphos-methyl (Guthion)	mg/kg	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	N.A.	-	N.A.	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
PAHs in Soil	Naphthalene	mg/kg	0.1		170	5/NL/NL		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0%	<0.1	0%	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	2-methylnaphthalene	mg/kg	0.1					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	N.A.	-	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	1-methylnaphthalene	mg/kg	0.1					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0%	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Acenaphthylene	mg/kg	0.1					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0%	<0.1	0%	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Acenaphthene	mg/kg	0.1					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0%	<0.1	0%	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Fluorene	mg/kg	0.1					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0%	<0.1	0%	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Phenanthrene	mg/kg	0.1					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0%	<0.1	0%	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Anthracene	mg/kg	0.1					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0%	<0.1	0%	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Fluoranthene	mg/kg	0.1					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0%	<0.1	0%	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Pyrene	mg/kg	0.1					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0%	<0.1	0%	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Benzo(a)anthracene	mg/kg	0.1					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0%	<0.1	0%	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Chrysene	mg/kg	0.1					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0%	<0.1	0%	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

P22105 - Detailed Site Investigation, Lot 6 DP242762 and Lot 318 DP750535, Cooma, NSW

Table 1: Soil Analytical Results

								Field_ID	TP12 0.0-0.1	TP13 0.0-0.1	TP14 0.0-0.1	TP15 0.0-0.1	TP16 0.0-0.1	TP17 0.0-0.1	TP18 0.0-0.1	TP19 0.0-0.1	TP20 0.0-0.1	TP21 0.0-0.1	TP22 0.0-0.1	QC5	RPD	QC6	RPD	TP23 0.0-0.1	TP24 0.0-0.1	TP25 0.0-0.1	TP26 0.0-0.1	TP27 0.0-0.1	TP28 0.0-0.1	TP29 0.0-0.1	TP30 0.0-0.1
								Depth m	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1					0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1
								Sampled-date	15/09/2022	15/09/2022	15/09/2022	15/09/2022	15/09/2022	15/09/2022	15/09/2022	15/09/2022	15/09/2022	15/09/2022	15/09/2022					15/09/2022	15/09/2022	15/09/2022	15/09/2022	15/09/2022	15/09/2022	15/09/2022	15/09/2022
								Fill/Natural																						
				PFAS National Environmental Management Plan Residential with Garden/Accessible Soil	ASC NEPM (2013) EIL/ESL Urban Residential and Public Open Space	ASC NEPM (2013) HSL A (mg/kg) 0.0-1.0m/1.0-2.0m/2.0-4.0m	ASC NEPM (2013) HIL A																								
Method_Type	ChemName	Units	EQL																											
	Benzo(bk)fluoranthene	mg/kg	0.1						<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0%	<0.2	0%	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Benzo(j)fluoranthene	mg/kg	0.1						<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0%	<0.2	0%	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Benzo(a)pyrene	mg/kg	0.1		0.7				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0%	<0.05	0%	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Indeno(1,2,3-cd)pyrene	mg/kg	0.1						<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0%	<0.1	0%	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Dibenzo(ah)anthracene	mg/kg	0.1						<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0%	<0.1	0%	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Benzo(ghi)perylene	mg/kg	0.1						<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0%	<0.1	0%	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ (mg/kg)	0.2				3		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0%	<0.5	0%	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	0.3				3		<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0%	<0.5	0%	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
	Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2				3		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0%	<0.5	0%	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	Total PAH (18)	mg/kg	0.8				300		<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	0%	<0.05	0%	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PCBs in Soil	Arochlor 1016	mg/kg	0.2						<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	N.A.	-	N.A	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	Arochlor 1221	mg/kg	0.2						<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	N.A.	-	N.A	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	Arochlor 1232	mg/kg	0.2						<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	N.A.	-	N.A	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	Arochlor 1242	mg/kg	0.2						<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	N.A.	-	N.A	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	Arochlor 1248	mg/kg	0.2						<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	N.A.	-	N.A	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	Arochlor 1254	mg/kg	0.2						<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	N.A.	-	N.A	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	Arochlor 1260	mg/kg	0.2						<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	N.A.	-	N.A	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	Arochlor 1262	mg/kg	0.2						<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	N.A.	-	N.A	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	Arochlor 1268	mg/kg	0.2						<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	N.A.	-	N.A	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	Total PCBs (Arochlors)	mg/kg	1				1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	N.A.	-	N.A	-	<1	<1	<1	<1	<1	<1	<1	<1
TRH Soil C10-C40 NEPM	TRH C10-C14	mg/kg	20						<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	0%	<50	0%	<20	<20	<20	<20	<20	<20	<20	<20
	TRH C15-C28	mg/kg	45						<45	<45	<45	<45	<45	<45	<45	<45	<45	<45	<45	<45	0%	<100	0%	<45	<45	<45	<45	<45	<45	<45	<45
	TRH C29-C36	mg/kg	45						<45	<45	<45	<45	**57**	<45	<45	<45	<45	<45	<45	<45	**62**	0%	<100	0%	<45	<45	<45	<45	<45	<45	<45	<45
	TRH C37-C40	mg/kg	100						<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	0%	-	-	<100	<100	<100	<100	<100	<100	<100	<100
	TRH >C10-C16	mg/kg	25						<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	0%	<50	0%	<25	<25	<25	<25	<25	<25	<25	<25
	TRH >C10-C16 - Naphthalene (F2)	mg/kg	25		120	280/NL/NL			<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	0%	<50	0%	<25	<25	<25	<25	<25	<25	<25	<25
	TRH >C16-C34 (F3)	mg/kg	90		1300				<90	<90	<90	<90	<90	<90	<90	<90	<90	<90	<90	<90	0%	<100	0%	<90	<90	<90	<90	<90	<90	<90	<90
	TRH >C34 (F4)	mg/kg	120		5600				<120	<120	<120	<120	<120	<120	<120	<120	<120	<120	<120	<120	0%	<100	0%	<120	<120	<120	<120	<120	<120	<120	<120
	TRH C10-C36 Total	mg/kg	110						<110	<110	<110	<110	<110	<110	<110	<110	<110	<110	<110	<110	0%	-	-	<110	<110	<110	<110	<110	<110	<110	<110
	TRH >C10-C40 Total (F bands)	mg/kg	210						<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	0%	<50	0%	<210	<210	<210	<210	<210	<210	<210	<210
BTEX + VOC	Benzene	mg/kg	0.1		65	0.7/1/2			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0%	<0.2	0%	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Toluene	mg/kg	0.1		105	480/NL/NL			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0%	<0.5	0%	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Ethylbenzene	mg/kg	0.1		125	NL/NL/NL			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0%	<1	0%	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	m/p-xylene	mg/kg	0.2						<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0%	<2	0%	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	o-xylene	mg/kg	0.1						<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0%	<1	0%	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Total Xylenes	mg/kg	0.3		45	110/310/NL			<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0%	<3	0%	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
	Total BTEX	mg/kg	0.6						<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	0%	N.A.	-	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
	Benzene (F0)	mg/kg	20			0.7/1/2			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0%	N.A.	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	TRH C6-C9	mg/kg	0.1						<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	0%	<25	0%	<20	<20	<20	<20	<20	<20	<20	<20
	TRH C6-C10	mg/kg	25						<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	0%	<25	0%	<25	<25	<25	<25	<25	<25	<25	<25
	TRH C6-C10 minus BTEX (F1)	mg/kg	25		180	50/90/150			<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	0%	<25	0%	<25	<25	<25	<25	<25	<25	<25	<25
Speciated Phenol	Phenol	mg/kg	0.5				3000		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	N.A.	-	N.A	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	2-methyl phenol (o-cresol)	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	N.A.	-	N.A	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	3/4-methyl phenol (m/p-cresol)	mg/kg	1						<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	N.A.	-	N.A	-	<1	<1	<1	<1	<1	<1	<1	<1
	Total Cresol	mg/kg	1.5				400		<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	N.A.	-	N.A	-	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
	2-chlorophenol	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	N.A.	-	N.A	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	2,4-dimethylphenol	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	N.A.	-	N.A	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	2,6-dichlorophenol	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	N.A.	-	N.A	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	2,4-dichlorophenol	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	N.A.	-	N.A	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	2,4,6-trichlorophenol	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	N.A.	-	N.A	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	2-nitrophenol	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	N.A.	-	N.A	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	4-nitrophenol	mg/kg	1						<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	N.A.	-	N.A	-	<1	<1	<1	<1	<1	<1	<1	<1
	2,4,5-trichlorophenol	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	N.A.	-	N.A	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1						<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	N.A.	-	N.A	-	<1	<1	<1	<1	<1	<1	<1	<1
	Pentachlorophenol	mg/kg	0.5				100		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	N.A.	-	N.A	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	2,4-dinitrophenol	mg/kg	2						<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	N.A.	-	N.A	-	<2	<2	<2	<2	<2	<2	<2	<2
	4-chloro-3-methylphenol	mg/kg	2						<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	N.A.	-	N.A	-	<2	<2	<2	<2	<2	<2	<2	<2
PFAS	Perfluorobutanoic acid (PFBA)	mg/kg	0.0001						N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A	-	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	Perfluoropentanoic acid (PFPeA)	mg/kg	0.0005						N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A	-	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	Perfluorohexanoic acid (PFHxA)	mg/kg	0.0001						N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A	-	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	Perfluoroheptanoic acid (PFHpA)	mg/kg	0.0001						N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A	-	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	Perfluorooctanoic Acid (PFOA)	mg/kg	0.0001		0.1				N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A	-	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	Perfluorononanoic acid (PFNA)	mg/kg	0.0001						N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A	-	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	Perfluorodecanoic acid (PFDA)	mg/kg	0.0001						N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A	-	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	Perfluoroundecanoic acid (PFUnA)	mg/kg	0.0001						N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A	-	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	Perfluorododecanoic acid (PFDoA)	mg/kg	0.0001						N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A	-	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	Perfluorotridecanoic acid (PFTrDA)	mg/kg	0.0001						N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A	-	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	Perfluorotetradecanoic acid (PFTeDA)	mg/kg	0.0001						N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A	-	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	Perfluorohexadecanoic acid (PFHxDA)	mg/kg	0.0001						N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A	-	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	Perfluorobutane sulfonate (PFBS)	mg/kg	0.0001						N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A	-	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	Perfluoropentane sulfonate (PFPeS)	mg/kg	0.0001						N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A	-	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	Perfluorohexane sulfonate (PFHxS)	mg/kg	0.0001						N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A	-	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	Perfluoroheptane sulfonate (PFHpS)	mg/kg	0.0001						N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A	-	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	Perfluorooctane sulfonate (PFOS)	mg/kg	0.0001						N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A	-	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	Sum PFOS and PFHXS	mg/kg	0.0001		0.01				N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A	-	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	Perfluorononane sulfonate (PFNS)	mg/kg	0.0001						N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A	-	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	Perfluorodecane sulfonate (PFDS)	mg/kg	0.0001						N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A	-	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	Perfluorododecane sulfonate (PFDoS)	mg/kg	0.0001						N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A	-	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	1H,1H,2H,2H-Perfluorohexane sulfonate (4:	mg/kg	0.0010						N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A	-	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	1H,1H,2H,2H-Perfluorooctane sulfonate (6:	mg/kg	0.0010						N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A	-	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	1H,1H,2H,2H-Perfluorodecane sulfonate (8:	mg/kg	0.0010						N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A	-	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	Perfluorooctane sulfonamide (PFOSA)	mg/kg	0.0010						N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A	-	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	N-Methylperfluorooctane sulfonamide (N-MA	mg/kg	0.0010						N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A	-	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	N-Ethylperfluorooctane sulfonamide (N-EtFO	mg/kg	0.0010						N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A	-	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	2-(N-Methylperfluorooctane sulfonamido)-e	mg/kg	0.0020						N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A	-	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	2-(N-Ethylperfluorooctane sulfonamido)-eth	mg/kg	0.0020						N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A	-	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	N-Methylperfluorooctanesulfonamidoacetic	mg/kg	0.0010						N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A	-	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	N-Ethylperfluorooctanesulfonamidoacetic A	mg/kg	0.0010						N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A	-	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Physicochemical Properties	pH	No unit	0.1						N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A	-	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	CEC	cmol/kg	1						N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A	-	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	%clay (<75 um)	%w/w	0.1						N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	-	N.A	-	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

P22105 - Detailed Site Investigation, Lot 6 DP242762 and Lot 318 DP750535, Cooma, NSW

Table 1: Soil Analytical Results

								Field_ID	TP31 0.0-0.1	TP32 0.0-0.1	TP33 0.0-0.1	TP34 0.0-0.1	TP35 0.0-0.1	TP36 0.0-0.1	TP37 0.0-0.1	TP38 0.0-0.1	TP39 0.0-0.1	TP40 0.0-0.1
								Depth m	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1
								Sampled-date	15/09/2022	15/09/2022	15/09/2022	15/09/2022	15/09/2022	15/09/2022	15/09/2022	15/09/2022	16/09/2022	16/09/2022
								Fill/Natural										
				PFAS National Environmental Management Plan Residential with Garden/Accessible Soil	ASC NEPM (2013) EIL/ESL Urban Residential and Public Open Space	ASC NEPM (2013) HSL A (mg/kg) 0.0-1.0m/1.0-2.0m/2.0-4.0m	ASC NEPM (2013) HIL A												
Method_Type	ChemName	Units	EQL																
Metals in soil	Arsenic, As	mg/kg	1		100		100	1	2	2	2	2	5	2	1	2	2
	Cadmium, Cd	mg/kg	0.3				20	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
	Chromium, Cr	mg/kg	0.3		420		100	31	46	32	50	47	32	51	62	43	60
	Copper, Cu	mg/kg	0.5		230		6000	23	30	13	47	30	15	28	41	45	38
	Lead, Pb	mg/kg	1		1100		300	3	8	5	3	3	10	6	3	3	4
	Nickel, Ni	mg/kg	0.5		340		400	92	47	29	97	130	21	57	140	130	140
	Zinc, Zn	mg/kg	2		510		7400	29	48	25	35	31	35	39	53	40	49
	Mercury	mg/kg	0.05				40	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Organochlorine Pesticides	Hexachlorobenzene (HCB)	mg/kg	0.1				10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Alpha BHC	mg/kg	0.1					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Lindane	mg/kg	0.1					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Heptachlor	mg/kg	0.1				6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Aldrin	mg/kg	0.1				6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Beta BHC	mg/kg	0.1					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Delta BHC	mg/kg	0.1					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Heptachlor epoxide	mg/kg	0.1					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	o,p'-DDE	mg/kg	0.1					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Alpha Endosulfan	mg/kg	0.2				270	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	Gamma Chlordane	mg/kg	0.1				50	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Alpha Chlordane	mg/kg	0.1				50	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	trans-Nonachlor	mg/kg	0.1					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	p,p'-DDE	mg/kg	0.1					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Dieldrin	mg/kg	0.2				6	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	Endrin	mg/kg	0.2				10	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	o,p'-DDD	mg/kg	0.1					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	o,p'-DDT	mg/kg	0.1					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Beta Endosulfan	mg/kg	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	p,p'-DDD	mg/kg	0.1				240	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	p,p'-DDT	mg/kg	0.1		180		240	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Endosulfan sulphate	mg/kg	0.1					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Endrin Aldehyde	mg/kg	0.1				10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Methoxychlor	mg/kg	0.1				300	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Endrin Ketone	mg/kg	0.1					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Isodrin	mg/kg	0.1					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Mirex	mg/kg	0.1				10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Organophosphorus Pesticides	Dichlorvos	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Dimethoate	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Diazinon (Dimpylate)	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fenitrothion	mg/kg	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	Malathion	mg/kg	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2				160	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	Parathion-ethyl (Parathion)	mg/kg	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	Bromophos Ethyl	mg/kg	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	Methidathion	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethion	mg/kg	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	Azinphos-methyl (Guthion)	mg/kg	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
PAHs in Soil	Naphthalene	mg/kg	0.1		170	5/NL/NL		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	2-methylnaphthalene	mg/kg	0.1					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	1-methylnaphthalene	mg/kg	0.1					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Acenaphthylene	mg/kg	0.1					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Acenaphthene	mg/kg	0.1					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Fluorene	mg/kg	0.1					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Phenanthrene	mg/kg	0.1					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Anthracene	mg/kg	0.1					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Fluoranthene	mg/kg	0.1					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Pyrene	mg/kg	0.1					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Benzo(a)anthracene	mg/kg	0.1					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Chrysene	mg/kg	0.1					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

P22105 - Detailed Site Investigation, Lot 6 DP242762 and Lot 318 DP750535, Cooma, NSW

Table 1: Soil Analytical Results

Method_Type	ChemName	Units	EQL	PFAS National Environmental Management Plan Residential with Garden/Accessible Soil	ASC NEPM (2013) EIL/ESL Urban Residential and Public Open Space	ASC NEPM (2013) HSL A (mg/kg) 0.0-1.0m/1.0-2.0m/2.0-4.0m	ASC NEPM (2013) HIL A	Field_ID	TP31 0.0-0.1	TP32 0.0-0.1	TP33 0.0-0.1	TP34 0.0-0.1	TP35 0.0-0.1	TP36 0.0-0.1	TP37 0.0-0.1	TP38 0.0-0.1	TP39 0.0-0.1	TP40 0.0-0.1
								Depth m	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1
								Sampled-date	15/09/2022	15/09/2022	15/09/2022	15/09/2022	15/09/2022	15/09/2022	15/09/2022	15/09/2022	16/09/2022	16/09/2022
								Fill/Natural										
	Benzo(b&j)fluoranthene	mg/kg	0.1					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Benzo(k)fluoranthene	mg/kg	0.1					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Benzo(a)pyrene	mg/kg	0.1		0.7			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Indeno(1,2,3-cd)pyrene	mg/kg	0.1					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Dibenzo(ah)anthracene	mg/kg	0.1					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Benzo(ghi)perylene	mg/kg	0.1					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ (mg/kg)	0.2				3	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	0.3				3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
	Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2				3	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	Total PAH (18)	mg/kg	0.8				300	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PCBs in Soil	Arochlor 1016	mg/kg	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	Arochlor 1221	mg/kg	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	Arochlor 1232	mg/kg	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	Arochlor 1242	mg/kg	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	Arochlor 1248	mg/kg	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	Arochlor 1254	mg/kg	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	Arochlor 1260	mg/kg	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	Arochlor 1262	mg/kg	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	Arochlor 1268	mg/kg	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	Total PCBs (Arochlors)	mg/kg	1				1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
TRH Soil C10-C40 NEPM	TRH C10-C14	mg/kg	20					<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
	TRH C15-C28	mg/kg	45					<45	<45	<45	<45	<45	<45	<45	<45	<45	<45	<45
	TRH C29-C36	mg/kg	45					<45	<45	<45	<45	<45	<45	<45	<45	<45	<45	<45
	TRH C37-C40	mg/kg	100					<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	TRH >C10-C16	mg/kg	25					<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
	TRH >C10-C16 - Naphthalene (F2)	mg/kg	25		120	280/NL/NL		<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
	TRH >C16-C34 (F3)	mg/kg	90		1300			<90	<90	<90	<90	<90	<90	<90	<90	<90	<90	<90
	TRH >C34-C40 (F4)	mg/kg	120		5600			<120	<120	<120	<120	<120	<120	<120	<120	<120	<120	<120
	TRH C10-C36 Total	mg/kg	110					<110	<110	<110	<110	<110	<110	<110	<110	<110	<110	<110
	TRH >C10-C40 Total (F bands)	mg/kg	210					<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
BTEX + VOC	Benzene	mg/kg	0.1		65	0.7/1/2		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Toluene	mg/kg	0.1		105	480/NL/NL		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Ethylbenzene	mg/kg	0.1		125	NL/NL/NL		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	m/p-xylene	mg/kg	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	o-xylene	mg/kg	0.1					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Total Xylenes	mg/kg	0.3		45	110/310/NL		<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
	Total BTEX	mg/kg	0.6					<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
	Benzene (F0)	mg/kg	20			0.7/1/2		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	TRH C6-C9	mg/kg	0.1					<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
	TRH C6-C10	mg/kg	25					<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
	TRH C6-C10 minus BTEX (F1)	mg/kg	25		180	50/90/150		<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Speciated Phenol	Phenol	mg/kg	0.5				3000	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	2-methyl phenol (o-cresol)	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	3/4-methyl phenol (m/p-cresol)	mg/kg	1					<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Total Cresol	mg/kg	1.5				400	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
	2-chlorophenol	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	2,4-dimethylphenol	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	2,6-dichlorophenol	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	2,4-dichlorophenol	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	2,4,6-trichlorophenol	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	2-nitrophenol	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	4-nitrophenol	mg/kg	1					<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	2,4,5-trichlorophenol	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1					<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Pentachlorophenol	mg/kg	0.5				100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	2,4-dinitrophenol	mg/kg	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
	4-chloro-3-methylphenol	mg/kg	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
PFAS	Perfluorobutanoic acid (PFBA)	mg/kg	0.0001					N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	Perfluoropentanoic acid (PFPeA)	mg/kg	0.0005					N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	Perfluorohexanoic acid (PFHxA)	mg/kg	0.0001					N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	Perfluoroheptanoic acid (PFHpA)	mg/kg	0.0001					N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	Perfluorooctanoic Acid (PFOA)	mg/kg	0.0001	0.1				N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	Perfluorononanoic acid (PFNA)	mg/kg	0.0001					N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	Perfluorodecanoic acid (PFDA)	mg/kg	0.0001					N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	Perfluoroundecanoic acid (PFUnA)	mg/kg	0.0001					N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	Perfluorododecanoic acid (PFDoA)	mg/kg	0.0001					N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	Perfluorotridecanoic acid (PFTrDA)	mg/kg	0.0001					N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	Perfluorotetradecanoic acid (PFTeDA)	mg/kg	0.0001					N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	Perfluorohexadecanoic acid (PFHxDA)	mg/kg	0.0001					N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	Perfluorobutane sulfonate (PFBS)	mg/kg	0.0001					N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	Perfluoropentane sulfonate (PFPeS)	mg/kg	0.0001					N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	Perfluorohexane sulfonate (PFHxS)	mg/kg	0.0001					N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	Perfluoroheptane sulfonate (PFHpS)	mg/kg	0.0001					N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	Perfluorooctane sulfonate (PFOS)	mg/kg	0.0001					N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	Sum PFOS and PFHXS	mg/kg	0.0001	0.01				N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	Perfluorononane sulfonate (PFNS)	mg/kg	0.0001					N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	Perfluorodecane sulfonate (PFDS)	mg/kg	0.0001					N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	Perfluorododecane sulfonate (PFDoS)	mg/kg	0.0001					N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	1H,1H,2H,2H-Perfluorohexane sulfonate (4	mg/kg	0.0010					N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	1H,1H,2H,2H-Perfluorooctane sulfonate (6:	mg/kg	0.0010					N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	1H,1H,2H,2H-Perfluorodecane sulfonate (8:	mg/kg	0.0010					N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	Perfluorooctane sulfonamide (PFOSA)	mg/kg	0.0010					N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	N-Methylperfluorooctane sulfonamide (N-M	mg/kg	0.0010					N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	N-Ethylperfluorooctane sulfonamide (N-ETFO	mg/kg	0.0010					N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	2-(N-Methylperfluorooctane sulfonamido)-(	mg/kg	0.0020					N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	2-(N-Ethylperfluorooctane sulfonamido)-etl	mg/kg	0.0020					N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	N-Methylperfluorooctanesulfonamidoacetic	mg/kg	0.0010					N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	N-Ethylperfluorooctanesulfonamidoacetic A	mg/kg	0.0010					N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Physicochemical Properties	pH	No unit	0.1					6.1	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	CEC	cmol/kg	1					26	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	%Clay (<75 um)	%w/w	0.1					4	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

Table 2: Water Analytical Results

					Field_ID	SW1
					Sampled-date	23/09/2022
				Australian Drinking Water Guideline 2011 (version 3.7, Jan 2022)	ANZG 2018 NEMP 2.0 - 95% Protection for Freshwater Species	
Method_Type	**ChemName**	**Units**	**EQL**			
Metals in water	Arsenic, As	µg/L	1	10	24	<1
	Cadmium, Cd	µg/L	0.1	2	0.2	<0.1
	Chromium, Cr	µg/L	1	50	1	**1**
	Copper, Cu	µg/L	1	2000	1.4	**7**
	Lead, Pb	µg/L	1	10	3.4	<1
	Nickel, Ni	µg/L	1	20	11	**4**
	Zinc, Zn	µg/L	5	3000**	8	<5
	Mercury	mg/L	0.0001	1	0.06	<0.0001
Organochlorine Pesticides	Hexachlorobenzene (HCB)	µg/L	0.1			<0.1
	Alpha BHC	µg/L	0.1		0.1	<0.1
	Lindane (gamma BHC)	µg/L	0.1			<0.1
	Heptachlor	µg/L	0.1	10	0.2	<0.1
	Aldrin	µg/L	0.1			<0.1
	Beta BHC	µg/L	0.1	0.3	0.09	<0.1
	Delta BHC	µg/L	0.1	0.3	0.001	<0.1
	Heptachlor epoxide	µg/L	0.1			<0.1
	Alpha Endosulfan	µg/L	0.1	2	0.08	<0.1
	Gamma Chlordane	µg/L	0.1	20	0.2	<0.1
	Alpha Chlordane	µg/L	0.1			<0.1
	p,p'-DDE	µg/L	0.1	0.3	0.01	<0.1
	Dieldrin	µg/L	0.1		0.02	<0.1
	Endrin	µg/L	0.1	20	0.2	<0.1
	Beta Endosulfan	µg/L	0.1			<0.1
	p,p'-DDD	µg/L	0.1	9	0.01	<0.1
	p,p'-DDT	µg/L	0.1	9	0.01	<0.1
	Endosulfan sulphate	µg/L	0.1			<0.1
	Methoxychlor	µg/L	0.1			<0.1
	Endrin Ketone	µg/L	0.1			<0.1
	Isodrin	µg/L	0.1			<0.1
	Mirex	µg/L	0.1		0.04	<0.1
Organophosphorus Pesticides	Dichlorvos	µg/L	0.5	5		<0.5
	Dimethoate	µg/L	0.5		0.15	<0.5
	Diazinon (Dimpylate)	µg/L	0.5	4	0.01	<0.5
	Fenitrothion	µg/L	0.2	7		<0.2
	Malathion (Maldison)	µg/L	0.2	70	0.05	<0.2
	Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	10	0.01	<0.2
	Parathion ethyl (Parathion)	µg/L	0.2		0.004	<0.2
	Bromophos Ethyl	µg/L	0.2	10		<0.2
	Methidathion	µg/L	0.5	6		<0.5
	Ethion	µg/L	0.2			<0.2
	Azinphos-methyl (Guthion)	µg/L	0.2	30	0.02	<0.2
PAHs	Naphthalene	µg/L	0.1		16	<0.1
	2-methylnaphthalene	µg/L	0.1			<0.1
	1-methylnaphthalene	µg/L	0.1			<0.1
	Acenaphthylene	µg/L	0.1			<0.1
	Acenaphthene	µg/L	0.1			<0.1

Table 2: Water Analytical Results

	Fluorene	µg/L	0.1			<0.1
	Phenanthrene	µg/L	0.1			<0.1
	Anthracene	µg/L	0.1			<0.1
	Fluoranthene	µg/L	0.1			<0.1
	Pyrene	µg/L	0.1			<0.1
	Benzo(a)anthracene	µg/L	0.1			<0.1
	Chrysene	µg/L	0.1			<0.1
	Benzo(b&j)fluoranthene	µg/L	0.1			<0.1
	Benzo(k)fluoranthene	µg/L	0.1			<0.1
	Benzo(a)pyrene	µg/L	0.1	0.01		<0.1
	Indeno(1,2,3-cd)pyrene	µg/L	0.1			<0.1
	Dibenzo(ah)anthracene	µg/L	0.1			<0.1
	Benzo(ghi)perylene	µg/L	0.1			<0.1
	Total PAH (18)	µg/L	1		20	<1
PCBs	Arochlor 1016	µg/L	1			<1
	Arochlor 1221	µg/L	1			<1
	Arochlor 1232	µg/L	1			<1
	Arochlor 1242	µg/L	1			<1
	Arochlor 1248	µg/L	1			<1
	Arochlor 1254	µg/L	1			<1
	Arochlor 1260	µg/L	1			<1
	Arochlor 1262	µg/L	1			<1
	Arochlor 1268	µg/L	1			<1
	Total Arochlors	µg/L	5		0.63	<5
TRH Soil C10-C40 NEPM	TRH C10-C14	µg/L	50			<50
	TRH C15-C28	µg/L	200			<200
	TRH C29-C36	µg/L	200			<200
	TRH C37-C40	µg/L	200			<200
	TRH >C10-C16	µg/L	60			<60
	TRH >C10-C16 - Naphthalene (F2)	µg/L	60			<60
	TRH >C16-C34 (F3)	µg/L	500			<500
	TRH >C34-C40 (F4)	µg/L	500			<500
	TRH C10-C40	µg/L	320			<320
BTEX + VOC	Benzene	µg/L	0.5	1	950	<0.5
	Toluene	µg/L	0.5	800 / 25**	180	<0.5
	Ethylbenzene	µg/L	0.5	300 / 3 **	80	<0.5
	m/p-xylene	µg/L	1			<1
	o-xylene	µg/L	0.5			<0.5
	Naphthalene	µg/L	0.5		16	<0.1
	Total Xylenes	µg/L	1.5	600 / 20**	625	<1.5
	Total BTEX	µg/L	3			<3
	Benzene (F0)	µg/L	0.5			<0.5
	TRH C6-C9	µg/L	40			<40
	TRH C6-C10	µg/L	50			<50
	TRH C6-C10 minus BTEX (F1)	µg/L	50			<50
Speciated Phenols	Phenol	µg/L	0.5			<0.5
	2-methyl phenol (o-cresol)	µg/L	0.5			<0.5
	3/4-methyl phenol (m/p-cresol)	µg/L	1			<1
	Total Cresol	µg/L	1.5			<1.5
	2-chlorophenol	µg/L	0.5	300 / 0.1**	490	<0.5
	2,4-dimethylphenol	µg/L	0.5		2	<0.5
	2,6-dichlorophenol	µg/L	0.5		34	<0.5
	2,4-dichlorophenol	µg/L	0.5	200 / 0.3**	160	<0.5
	2,4,6-trichlorophenol	µg/L	0.5	20 / 2**	20	<0.5
	2-nitrophenol	µg/L	0.5			<0.5
	4-nitrophenol	µg/L	1		58	<1
	2,4,5-trichlorophenol	µg/L	0.5			<0.5
	2,3,4,6-tetrachlorophenol	µg/L	1		20/0.2	<1
	Pentachlorophenol	µg/L	0.5		10	<0.5
	4-chloro-3-methylphenol	µg/L	2			<2

Note: * USEPA Regional Screening Level

** Only aesthetic values available under the Australian Drinking Water Guidelines 2011 (version 3.7, Jan 2022)

Appendix C

ANALYTICAL REPORT

Accreditation No. 2562

CLIENT DETAILS

Contact	Chris Gunton
Client	LANTERRA CONSULTING PTY LTD
Address	Unit 13, 71 Leichhardt Street Kingston ACT 2604
Telephone	0432 324 348
Facsimile	(Not specified)
Email	chris@lanterra.com.au
Project	**P22105-Cardno, Polo Flat Rd, Cooma**
Order Number	**P22105**
Samples	62

LABORATORY DETAILS

Manager	Huong Crawford
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
SGS Reference	**SE237144 R0**
Date Received	27/9/2022
Date Reported	6/10/2022

COMMENTS

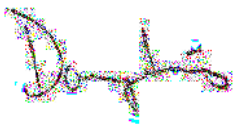
Accredited for compliance with ISO/IEC 17025 - Testing. NATA accredited laboratory 2562(4354).

PFAS subcontracted to SGS Melbourne, 10/585 Blackburn Road, Notting Hill, VIC, NATA Accreditation Numbe. 2562/14420. Report No. ME329643.
% Clay subcontracted to SGS Cairns, 2/58 Comport St, Portsmith QLD 4870, NATA Accreditation Number: 2562, Site Number: 3146. Report No. CE162054.

SIGNATORIES



Akheeqar BENIAMEEN
Chemist



Dong LIANG
Metals/Inorganics Team Leader



Huong CRAWFORD
Production Manager



Kamrul AHSAN
Senior Chemist



Ly Kim HA
Organic Section Head



Teresa NGUYEN
Organic Chemist

VOC's in Soil [AN433] Tested: 30/9/2022

PARAMETER	UOM	LOR	SS1 SOIL - 23/9/2022 SE237144.002	SS2 SOIL - 23/9/2022 SE237144.003	SS3 SOIL - 23/9/2022 SE237144.004	SS4 SOIL - 23/9/2022 SE237144.005	SS5 SOIL - 23/9/2022 SE237144.006
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Naphthalene (VOC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6

PARAMETER	UOM	LOR	SS6 SOIL - 23/9/2022 SE237144.007	SS7 SOIL - 16/9/2022 SE237144.008	SS8 SOIL - 16/9/2022 SE237144.009	SS9 SOIL - 16/9/2022 SE237144.010	SA1 0.0-0.1 SOIL - 16/9/2022 SE237144.011
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Naphthalene (VOC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6

PARAMETER	UOM	LOR	SA2 0.0-0.1 SOIL - 16/9/2022 SE237144.012	SA3 0.5-0.6 SOIL - 16/9/2022 SE237144.013	SA4 0.0-0.1 SOIL - 16/9/2022 SE237144.014	SA5 0.0-0.1 SOIL - 16/9/2022 SE237144.015	SA6 0.5-0.6 SOIL - 16/9/2022 SE237144.016
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Naphthalene (VOC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6

PARAMETER	UOM	LOR	SA7 0.0-0.1 SOIL - 16/9/2022 SE237144.017	SA8 0.0-0.1 SOIL - 16/9/2022 SE237144.018	SA9 0.5-0.6 SOIL - 16/9/2022 SE237144.019	SA10 0.0-0.1 SOIL - 16/9/2022 SE237144.020	TP1 0.0-0.1 SOIL - 15/9/2022 SE237144.021
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Naphthalene (VOC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6

VOC's in Soil [AN433] Tested: 30/9/2022 (continued)

PARAMETER	UOM	LOR	TP2 0.0-0.2 SOIL - 15/9/2022 SE237144.022	TP3 0.0-0.1 SOIL - 15/9/2022 SE237144.023	TP4 0.0-0.1 SOIL - 15/9/2022 SE237144.024	TP5 0.0-0.1 SOIL - 15/9/2022 SE237144.025	TP6 0.0-0.1 SOIL - 15/9/2022 SE237144.026
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Naphthalene (VOC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6

PARAMETER	UOM	LOR	TP8 0.0-0.1 SOIL - 15/9/2022 SE237144.027	TP10 0.0-0.1 SOIL - 15/9/2022 SE237144.028	TP11 0.0-0.1 SOIL - 15/9/2022 SE237144.029	TP12 0.0-0.1 SOIL - 15/9/2022 SE237144.030	TP13 0.0-0.1 SOIL - 15/9/2022 SE237144.031
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Naphthalene (VOC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6

PARAMETER	UOM	LOR	TP14 0.0-0.1 SOIL - 15/9/2022 SE237144.032	TP15 0.0-0.1 SOIL - 15/9/2022 SE237144.033	TP16 0.0-0.1 SOIL - 15/9/2022 SE237144.034	TP17 0.0-0.1 SOIL - 15/9/2022 SE237144.035	TP18 0.0-0.1 SOIL - 15/9/2022 SE237144.036
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Naphthalene (VOC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6

PARAMETER	UOM	LOR	TP19 0.0-0.1 SOIL - 15/9/2022 SE237144.037	TP20 0.0-0.1 SOIL - 15/9/2022 SE237144.038	TP21 0.0-0.1 SOIL - 15/9/2022 SE237144.039	TP22 0.0-0.1 SOIL - 15/9/2022 SE237144.040	TP23 0.0-0.1 SOIL - 15/9/2022 SE237144.041
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Naphthalene (VOC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6

VOC's in Soil [AN433] Tested: 30/9/2022 (continued)

PARAMETER	UOM	LOR	TP24 0.0-0.1 SOIL - 15/9/2022 SE237144.042	TP25 0.0-0.1 SOIL - 15/9/2022 SE237144.043	TP26 0.0-0.1 SOIL - 15/9/2022 SE237144.044	TP27 0.0-0.1 SOIL - 15/9/2022 SE237144.045	TP28 0.0-0.1 SOIL - 15/9/2022 SE237144.046
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Naphthalene (VOC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6

PARAMETER	UOM	LOR	TP29 0.0-0.1 SOIL - 15/9/2022 SE237144.047	TP30 0.0-0.1 SOIL - 15/9/2022 SE237144.048	TP31 0.0-0.1 SOIL - 15/9/2022 SE237144.049	TP32 0.0-0.1 SOIL - 15/9/2022 SE237144.050	TP33 0.0-0.1 SOIL - 15/9/2022 SE237144.051
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Naphthalene (VOC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6

PARAMETER	UOM	LOR	TP34 0.0-0.1 SOIL - 15/9/2022 SE237144.052	TP35 0.0-0.1 SOIL - 15/9/2022 SE237144.053	TP36 0.0-0.1 SOIL - 15/9/2022 SE237144.054	TP37 0.0-0.1 SOIL - 15/9/2022 SE237144.055	TP38 0.0-0.1 SOIL - 15/9/2022 SE237144.056
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Naphthalene (VOC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6

PARAMETER	UOM	LOR	TP39 0.0-0.1 SOIL - 16/9/2022 SE237144.057	TP40 0.0-0.1 SOIL - 16/9/2022 SE237144.058	QC1 SOIL - 14/9/2022 SE237144.059	QC3 SOIL - 15/9/2022 SE237144.060	QC5 SOIL - 15/9/2022 SE237144.061
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Naphthalene (VOC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6

VOC's in Soil [AN433] Tested: 30/9/2022 (continued)

PARAMETER	UOM	LOR	QC7 SOIL - 16/9/2022 SE237144.062
Benzene	mg/kg	0.1	<0.1
Toluene	mg/kg	0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2
o-xylene	mg/kg	0.1	<0.1
Naphthalene (VOC)	mg/kg	0.1	<0.1
Total Xylenes	mg/kg	0.3	<0.3
Total BTEX	mg/kg	0.6	<0.6

Volatile Petroleum Hydrocarbons in Soil [AN433] Tested: 30/9/2022

PARAMETER	UOM	LOR	SS1 SOIL - 23/9/2022 SE237144.002	SS2 SOIL - 23/9/2022 SE237144.003	SS3 SOIL - 23/9/2022 SE237144.004	SS4 SOIL - 23/9/2022 SE237144.005	SS5 SOIL - 23/9/2022 SE237144.006
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	SS6 SOIL - 23/9/2022 SE237144.007	SS7 SOIL - 16/9/2022 SE237144.008	SS8 SOIL - 16/9/2022 SE237144.009	SS9 SOIL - 16/9/2022 SE237144.010	SA1 0.0-0.1 SOIL - 16/9/2022 SE237144.011
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	SA2 0.0-0.1 SOIL - 16/9/2022 SE237144.012	SA3 0.5-0.6 SOIL - 16/9/2022 SE237144.013	SA4 0.0-0.1 SOIL - 16/9/2022 SE237144.014	SA5 0.0-0.1 SOIL - 16/9/2022 SE237144.015	SA6 0.5-0.6 SOIL - 16/9/2022 SE237144.016
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	SA7 0.0-0.1 SOIL - 16/9/2022 SE237144.017	SA8 0.0-0.1 SOIL - 16/9/2022 SE237144.018	SA9 0.5-0.6 SOIL - 16/9/2022 SE237144.019	SA10 0.0-0.1 SOIL - 16/9/2022 SE237144.020	TP1 0.0-0.1 SOIL - 15/9/2022 SE237144.021
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	TP2 0.0-0.2 SOIL - 15/9/2022 SE237144.022	TP3 0.0-0.1 SOIL - 15/9/2022 SE237144.023	TP4 0.0-0.1 SOIL - 15/9/2022 SE237144.024	TP5 0.0-0.1 SOIL - 15/9/2022 SE237144.025	TP6 0.0-0.1 SOIL - 15/9/2022 SE237144.026
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	TP8 0.0-0.1 SOIL - 15/9/2022 SE237144.027	TP10 0.0-0.1 SOIL - 15/9/2022 SE237144.028	TP11 0.0-0.1 SOIL - 15/9/2022 SE237144.029	TP12 0.0-0.1 SOIL - 15/9/2022 SE237144.030	TP13 0.0-0.1 SOIL - 15/9/2022 SE237144.031
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

Volatile Petroleum Hydrocarbons in Soil [AN433] Tested: 30/9/2022 (continued)

PARAMETER	UOM	LOR	TP14 0.0-0.1 SOIL - 15/9/2022 SE237144.032	TP15 0.0-0.1 SOIL - 15/9/2022 SE237144.033	TP16 0.0-0.1 SOIL - 15/9/2022 SE237144.034	TP17 0.0-0.1 SOIL - 15/9/2022 SE237144.035	TP18 0.0-0.1 SOIL - 15/9/2022 SE237144.036
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	TP19 0.0-0.1 SOIL - 15/9/2022 SE237144.037	TP20 0.0-0.1 SOIL - 15/9/2022 SE237144.038	TP21 0.0-0.1 SOIL - 15/9/2022 SE237144.039	TP22 0.0-0.1 SOIL - 15/9/2022 SE237144.040	TP23 0.0-0.1 SOIL - 15/9/2022 SE237144.041
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	TP24 0.0-0.1 SOIL - 15/9/2022 SE237144.042	TP25 0.0-0.1 SOIL - 15/9/2022 SE237144.043	TP26 0.0-0.1 SOIL - 15/9/2022 SE237144.044	TP27 0.0-0.1 SOIL - 15/9/2022 SE237144.045	TP28 0.0-0.1 SOIL - 15/9/2022 SE237144.046
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	TP29 0.0-0.1 SOIL - 15/9/2022 SE237144.047	TP30 0.0-0.1 SOIL - 15/9/2022 SE237144.048	TP31 0.0-0.1 SOIL - 15/9/2022 SE237144.049	TP32 0.0-0.1 SOIL - 15/9/2022 SE237144.050	TP33 0.0-0.1 SOIL - 15/9/2022 SE237144.051
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	TP34 0.0-0.1 SOIL - 15/9/2022 SE237144.052	TP35 0.0-0.1 SOIL - 15/9/2022 SE237144.053	TP36 0.0-0.1 SOIL - 15/9/2022 SE237144.054	TP37 0.0-0.1 SOIL - 15/9/2022 SE237144.055	TP38 0.0-0.1 SOIL - 15/9/2022 SE237144.056
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	TP39 0.0-0.1 SOIL - 16/9/2022 SE237144.057	TP40 0.0-0.1 SOIL - 16/9/2022 SE237144.058	QC1 SOIL - 14/9/2022 SE237144.059	QC3 SOIL - 15/9/2022 SE237144.060	QC5 SOIL - 15/9/2022 SE237144.061
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

Volatile Petroleum Hydrocarbons in Soil [AN433] Tested: 30/9/2022 (continued)

PARAMETER	UOM	LOR	QC7 SOIL - 16/9/2022 SE237144.062
Benzene (F0)	mg/kg	0.1	<0.1
TRH C6-C9	mg/kg	20	<20
TRH C6-C10	mg/kg	25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25

TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 30/9/2022

PARAMETER	UOM	LOR	SS1 SOIL - 23/9/2022 SE237144.002	SS2 SOIL - 23/9/2022 SE237144.003	SS3 SOIL - 23/9/2022 SE237144.004	SS4 SOIL - 23/9/2022 SE237144.005	SS5 SOIL - 23/9/2022 SE237144.006
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

PARAMETER	UOM	LOR	SS6 SOIL - 23/9/2022 SE237144.007	SS7 SOIL - 16/9/2022 SE237144.008	SS8 SOIL - 16/9/2022 SE237144.009	SS9 SOIL - 16/9/2022 SE237144.010	SA1 0.0-0.1 SOIL - 16/9/2022 SE237144.011
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

PARAMETER	UOM	LOR	SA2 0.0-0.1 SOIL - 16/9/2022 SE237144.012	SA3 0.5-0.6 SOIL - 16/9/2022 SE237144.013	SA4 0.0-0.1 SOIL - 16/9/2022 SE237144.014	SA5 0.0-0.1 SOIL - 16/9/2022 SE237144.015	SA6 0.5-0.6 SOIL - 16/9/2022 SE237144.016
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 30/9/2022 (continued)

PARAMETER	UOM	LOR	SA7 0.0-0.1 SOIL - 16/9/2022 SE237144.017	SA8 0.0-0.1 SOIL - 16/9/2022 SE237144.018	SA9 0.5-0.6 SOIL - 16/9/2022 SE237144.019	SA10 0.0-0.1 SOIL - 16/9/2022 SE237144.020	TP1 0.0-0.1 SOIL - 15/9/2022 SE237144.021
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

PARAMETER	UOM	LOR	TP2 0.0-0.2 SOIL - 15/9/2022 SE237144.022	TP3 0.0-0.1 SOIL - 15/9/2022 SE237144.023	TP4 0.0-0.1 SOIL - 15/9/2022 SE237144.024	TP5 0.0-0.1 SOIL - 15/9/2022 SE237144.025	TP6 0.0-0.1 SOIL - 15/9/2022 SE237144.026
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

PARAMETER	UOM	LOR	TP8 0.0-0.1 SOIL - 15/9/2022 SE237144.027	TP10 0.0-0.1 SOIL - 15/9/2022 SE237144.028	TP11 0.0-0.1 SOIL - 15/9/2022 SE237144.029	TP12 0.0-0.1 SOIL - 15/9/2022 SE237144.030	TP13 0.0-0.1 SOIL - 15/9/2022 SE237144.031
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 30/9/2022 (continued)

PARAMETER	UOM	LOR	TP14 0.0-0.1 SOIL - 15/9/2022 SE237144.032	TP15 0.0-0.1 SOIL - 15/9/2022 SE237144.033	TP16 0.0-0.1 SOIL - 15/9/2022 SE237144.034	TP17 0.0-0.1 SOIL - 15/9/2022 SE237144.035	TP18 0.0-0.1 SOIL - 15/9/2022 SE237144.036
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	**57**	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

PARAMETER	UOM	LOR	TP19 0.0-0.1 SOIL - 15/9/2022 SE237144.037	TP20 0.0-0.1 SOIL - 15/9/2022 SE237144.038	TP21 0.0-0.1 SOIL - 15/9/2022 SE237144.039	TP22 0.0-0.1 SOIL - 15/9/2022 SE237144.040	TP23 0.0-0.1 SOIL - 15/9/2022 SE237144.041
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

PARAMETER	UOM	LOR	TP24 0.0-0.1 SOIL - 15/9/2022 SE237144.042	TP25 0.0-0.1 SOIL - 15/9/2022 SE237144.043	TP26 0.0-0.1 SOIL - 15/9/2022 SE237144.044	TP27 0.0-0.1 SOIL - 15/9/2022 SE237144.045	TP28 0.0-0.1 SOIL - 15/9/2022 SE237144.046
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 30/9/2022 (continued)

PARAMETER	UOM	LOR	TP29 0.0-0.1 SOIL - 15/9/2022 SE237144.047	TP30 0.0-0.1 SOIL - 15/9/2022 SE237144.048	TP31 0.0-0.1 SOIL - 15/9/2022 SE237144.049	TP32 0.0-0.1 SOIL - 15/9/2022 SE237144.050	TP33 0.0-0.1 SOIL - 15/9/2022 SE237144.051
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

PARAMETER	UOM	LOR	TP34 0.0-0.1 SOIL - 15/9/2022 SE237144.052	TP35 0.0-0.1 SOIL - 15/9/2022 SE237144.053	TP36 0.0-0.1 SOIL - 15/9/2022 SE237144.054	TP37 0.0-0.1 SOIL - 15/9/2022 SE237144.055	TP38 0.0-0.1 SOIL - 15/9/2022 SE237144.056
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

PARAMETER	UOM	LOR	TP39 0.0-0.1 SOIL - 16/9/2022 SE237144.057	TP40 0.0-0.1 SOIL - 16/9/2022 SE237144.058	QC1 SOIL - 14/9/2022 SE237144.059	QC3 SOIL - 15/9/2022 SE237144.060	QC5 SOIL - 15/9/2022 SE237144.061
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	**62**
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 30/9/2022 (continued)

PARAMETER	UOM	LOR	QC7 SOIL - 16/9/2022 SE237144.062
TRH C10-C14	mg/kg	20	<20
TRH C15-C28	mg/kg	45	<45
TRH C29-C36	mg/kg	45	<45
TRH C37-C40	mg/kg	100	<100
TRH >C10-C16	mg/kg	25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120
TRH C10-C36 Total	mg/kg	110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 30/9/2022

PARAMETER	UOM	LOR	SS1 SOIL - 23/9/2022 SE237144.002	SS2 SOIL - 23/9/2022 SE237144.003	SS3 SOIL - 23/9/2022 SE237144.004	SS4 SOIL - 23/9/2022 SE237144.005	SS5 SOIL - 23/9/2022 SE237144.006
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8

PARAMETER	UOM	LOR	SS6 SOIL - 23/9/2022 SE237144.007	SS7 SOIL - 16/9/2022 SE237144.008	SS8 SOIL - 16/9/2022 SE237144.009	SS9 SOIL - 16/9/2022 SE237144.010	SA1 0.0-0.1 SOIL - 16/9/2022 SE237144.011
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 30/9/2022 (continued)

PARAMETER	UOM	LOR	SA2 0.0-0.1 SOIL - 16/9/2022 SE237144.012	SA3 0.5-0.6 SOIL - 16/9/2022 SE237144.013	SA4 0.0-0.1 SOIL - 16/9/2022 SE237144.014	SA5 0.0-0.1 SOIL - 16/9/2022 SE237144.015	SA6 0.5-0.6 SOIL - 16/9/2022 SE237144.016
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8

PARAMETER	UOM	LOR	SA7 0.0-0.1 SOIL - 16/9/2022 SE237144.017	SA8 0.0-0.1 SOIL - 16/9/2022 SE237144.018	SA9 0.5-0.6 SOIL - 16/9/2022 SE237144.019	SA10 0.0-0.1 SOIL - 16/9/2022 SE237144.020	TP1 0.0-0.1 SOIL - 15/9/2022 SE237144.021
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 30/9/2022 (continued)

PARAMETER	UOM	LOR	TP2 0.0-0.2 SOIL - 15/9/2022 SE237144.022	TP3 0.0-0.1 SOIL - 15/9/2022 SE237144.023	TP4 0.0-0.1 SOIL - 15/9/2022 SE237144.024	TP5 0.0-0.1 SOIL - 15/9/2022 SE237144.025	TP6 0.0-0.1 SOIL - 15/9/2022 SE237144.026
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8

PARAMETER	UOM	LOR	TP8 0.0-0.1 SOIL - 15/9/2022 SE237144.027	TP10 0.0-0.1 SOIL - 15/9/2022 SE237144.028	TP11 0.0-0.1 SOIL - 15/9/2022 SE237144.029	TP12 0.0-0.1 SOIL - 15/9/2022 SE237144.030	TP13 0.0-0.1 SOIL - 15/9/2022 SE237144.031
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 30/9/2022 (continued)

PARAMETER	UOM	LOR	TP14 0.0-0.1 SOIL - 15/9/2022 SE237144.032	TP15 0.0-0.1 SOIL - 15/9/2022 SE237144.033	TP16 0.0-0.1 SOIL - 15/9/2022 SE237144.034	TP17 0.0-0.1 SOIL - 15/9/2022 SE237144.035	TP18 0.0-0.1 SOIL - 15/9/2022 SE237144.036
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8

PARAMETER	UOM	LOR	TP19 0.0-0.1 SOIL - 15/9/2022 SE237144.037	TP20 0.0-0.1 SOIL - 15/9/2022 SE237144.038	TP21 0.0-0.1 SOIL - 15/9/2022 SE237144.039	TP22 0.0-0.1 SOIL - 15/9/2022 SE237144.040	TP23 0.0-0.1 SOIL - 15/9/2022 SE237144.041
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 30/9/2022 (continued)

PARAMETER	UOM	LOR	TP24 0.0-0.1 SOIL - 15/9/2022 SE237144.042	TP25 0.0-0.1 SOIL - 15/9/2022 SE237144.043	TP26 0.0-0.1 SOIL - 15/9/2022 SE237144.044	TP27 0.0-0.1 SOIL - 15/9/2022 SE237144.045	TP28 0.0-0.1 SOIL - 15/9/2022 SE237144.046
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8

PARAMETER	UOM	LOR	TP29 0.0-0.1 SOIL - 15/9/2022 SE237144.047	TP30 0.0-0.1 SOIL - 15/9/2022 SE237144.048	TP31 0.0-0.1 SOIL - 15/9/2022 SE237144.049	TP32 0.0-0.1 SOIL - 15/9/2022 SE237144.050	TP33 0.0-0.1 SOIL - 15/9/2022 SE237144.051
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 30/9/2022 (continued)

PARAMETER	UOM	LOR	TP34 0.0-0.1 SOIL - 15/9/2022 SE237144.052	TP35 0.0-0.1 SOIL - 15/9/2022 SE237144.053	TP36 0.0-0.1 SOIL - 15/9/2022 SE237144.054	TP37 0.0-0.1 SOIL - 15/9/2022 SE237144.055	TP38 0.0-0.1 SOIL - 15/9/2022 SE237144.056
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8

PARAMETER	UOM	LOR	TP39 0.0-0.1 SOIL - 16/9/2022 SE237144.057	TP40 0.0-0.1 SOIL - 16/9/2022 SE237144.058	QC1 SOIL - 14/9/2022 SE237144.059	QC3 SOIL - 15/9/2022 SE237144.060	QC5 SOIL - 15/9/2022 SE237144.061
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 30/9/2022 (continued)

PARAMETER	UOM	LOR	QC7 SOIL - 16/9/2022 SE237144.062
Naphthalene	mg/kg	0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1
Fluorene	mg/kg	0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1
Anthracene	mg/kg	0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1
Pyrene	mg/kg	0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1
Chrysene	mg/kg	0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ (mg/kg)	0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8

OC Pesticides in Soil [AN420] Tested: 30/9/2022

PARAMETER	UOM	LOR	SS1 SOIL - 23/9/2022 SE237144.002	SS2 SOIL - 23/9/2022 SE237144.003	SS3 SOIL - 23/9/2022 SE237144.004	SS4 SOIL - 23/9/2022 SE237144.005	SS5 SOIL - 23/9/2022 SE237144.006
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1
Total OC VIC EPA	mg/kg	1	<1	<1	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 30/9/2022 (continued)

PARAMETER	UOM	LOR	SS6 SOIL - 23/9/2022 SE237144.007	SS7 SOIL - 16/9/2022 SE237144.008	SS8 SOIL - 16/9/2022 SE237144.009	SS9 SOIL - 16/9/2022 SE237144.010	SA1 0.0-0.1 SOIL - 16/9/2022 SE237144.011
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1
Total OC VIC EPA	mg/kg	1	<1	<1	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 30/9/2022 (continued)

PARAMETER	UOM	LOR	SA2 0.0-0.1 SOIL - 16/9/2022 SE237144.012	SA3 0.5-0.6 SOIL - 16/9/2022 SE237144.013	SA4 0.0-0.1 SOIL - 16/9/2022 SE237144.014	SA5 0.0-0.1 SOIL - 16/9/2022 SE237144.015	SA6 0.5-0.6 SOIL - 16/9/2022 SE237144.016
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1
Total OC VIC EPA	mg/kg	1	<1	<1	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 30/9/2022 (continued)

PARAMETER	UOM	LOR	SA7 0.0-0.1 SOIL - 16/9/2022 SE237144.017	SA8 0.0-0.1 SOIL - 16/9/2022 SE237144.018	SA9 0.5-0.6 SOIL - 16/9/2022 SE237144.019	SA10 0.0-0.1 SOIL - 16/9/2022 SE237144.020	TP1 0.0-0.1 SOIL - 15/9/2022 SE237144.021
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1
Total OC VIC EPA	mg/kg	1	<1	<1	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 30/9/2022 (continued)

PARAMETER	UOM	LOR	TP2 0.0-0.2 SOIL - 15/9/2022 SE237144.022	TP3 0.0-0.1 SOIL - 15/9/2022 SE237144.023	TP4 0.0-0.1 SOIL - 15/9/2022 SE237144.024	TP5 0.0-0.1 SOIL - 15/9/2022 SE237144.025	TP6 0.0-0.1 SOIL - 15/9/2022 SE237144.026
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1
Total OC VIC EPA	mg/kg	1	<1	<1	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 30/9/2022 (continued)

PARAMETER	UOM	LOR	TP8 0.0-0.1 SOIL - 15/9/2022 SE237144.027	TP10 0.0-0.1 SOIL - 15/9/2022 SE237144.028	TP11 0.0-0.1 SOIL - 15/9/2022 SE237144.029	TP12 0.0-0.1 SOIL - 15/9/2022 SE237144.030	TP13 0.0-0.1 SOIL - 15/9/2022 SE237144.031
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1
Total OC VIC EPA	mg/kg	1	<1	<1	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 30/9/2022 (continued)

PARAMETER	UOM	LOR	TP14 0.0-0.1 SOIL - 15/9/2022 SE237144.032	TP15 0.0-0.1 SOIL - 15/9/2022 SE237144.033	TP16 0.0-0.1 SOIL - 15/9/2022 SE237144.034	TP17 0.0-0.1 SOIL - 15/9/2022 SE237144.035	TP18 0.0-0.1 SOIL - 15/9/2022 SE237144.036
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1
Total OC VIC EPA	mg/kg	1	<1	<1	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 30/9/2022 (continued)

PARAMETER	UOM	LOR	TP19 0.0-0.1 SOIL - 15/9/2022 SE237144.037	TP20 0.0-0.1 SOIL - 15/9/2022 SE237144.038	TP21 0.0-0.1 SOIL - 15/9/2022 SE237144.039	TP22 0.0-0.1 SOIL - 15/9/2022 SE237144.040	TP23 0.0-0.1 SOIL - 15/9/2022 SE237144.041
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1
Total OC VIC EPA	mg/kg	1	<1	<1	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 30/9/2022 (continued)

PARAMETER	UOM	LOR	TP24 0.0-0.1 SOIL - 15/9/2022 SE237144.042	TP25 0.0-0.1 SOIL - 15/9/2022 SE237144.043	TP26 0.0-0.1 SOIL - 15/9/2022 SE237144.044	TP27 0.0-0.1 SOIL - 15/9/2022 SE237144.045	TP28 0.0-0.1 SOIL - 15/9/2022 SE237144.046
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1
Total OC VIC EPA	mg/kg	1	<1	<1	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 30/9/2022 (continued)

PARAMETER	UOM	LOR	TP29 0.0-0.1 SOIL - 15/9/2022 SE237144.047	TP30 0.0-0.1 SOIL - 15/9/2022 SE237144.048	TP31 0.0-0.1 SOIL - 15/9/2022 SE237144.049	TP32 0.0-0.1 SOIL - 15/9/2022 SE237144.050	TP33 0.0-0.1 SOIL - 15/9/2022 SE237144.051
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1
Total OC VIC EPA	mg/kg	1	<1	<1	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 30/9/2022 (continued)

PARAMETER	UOM	LOR	TP34 0.0-0.1 SOIL - 15/9/2022 SE237144.052	TP35 0.0-0.1 SOIL - 15/9/2022 SE237144.053	TP36 0.0-0.1 SOIL - 15/9/2022 SE237144.054	TP37 0.0-0.1 SOIL - 15/9/2022 SE237144.055	TP38 0.0-0.1 SOIL - 15/9/2022 SE237144.056
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1
Total OC VIC EPA	mg/kg	1	<1	<1	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 30/9/2022 (continued)

PARAMETER	UOM	LOR	TP39 0.0-0.1 SOIL - 16/9/2022 SE237144.057	TP40 0.0-0.1 SOIL - 16/9/2022 SE237144.058
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1
o,p'-DDE	mg/kg	0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0.1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	<1
Total OC VIC EPA	mg/kg	1	<1	<1

OP Pesticides in Soil [AN420] Tested: 30/9/2022

PARAMETER	UOM	LOR	SS1 SOIL - 23/9/2022 SE237144.002	SS2 SOIL - 23/9/2022 SE237144.003	SS3 SOIL - 23/9/2022 SE237144.004	SS4 SOIL - 23/9/2022 SE237144.005	SS5 SOIL - 23/9/2022 SE237144.006
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7	<1.7	<1.7

PARAMETER	UOM	LOR	SS6 SOIL - 23/9/2022 SE237144.007	SS7 SOIL - 16/9/2022 SE237144.008	SS8 SOIL - 16/9/2022 SE237144.009	SS9 SOIL - 16/9/2022 SE237144.010	SA1 0.0-0.1 SOIL - 16/9/2022 SE237144.011
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7	<1.7	<1.7

PARAMETER	UOM	LOR	SA2 0.0-0.1 SOIL - 16/9/2022 SE237144.012	SA3 0.5-0.6 SOIL - 16/9/2022 SE237144.013	SA4 0.0-0.1 SOIL - 16/9/2022 SE237144.014	SA5 0.0-0.1 SOIL - 16/9/2022 SE237144.015	SA6 0.5-0.6 SOIL - 16/9/2022 SE237144.016
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7	<1.7	<1.7

OP Pesticides in Soil [AN420] Tested: 30/9/2022 (continued)

PARAMETER	UOM	LOR	SA7 0.0-0.1 SOIL - 16/9/2022 SE237144.017	SA8 0.0-0.1 SOIL - 16/9/2022 SE237144.018	SA9 0.5-0.6 SOIL - 16/9/2022 SE237144.019	SA10 0.0-0.1 SOIL - 16/9/2022 SE237144.020	TP1 0.0-0.1 SOIL - 15/9/2022 SE237144.021
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7	<1.7	<1.7

PARAMETER	UOM	LOR	TP2 0.0-0.2 SOIL - 15/9/2022 SE237144.022	TP3 0.0-0.1 SOIL - 15/9/2022 SE237144.023	TP4 0.0-0.1 SOIL - 15/9/2022 SE237144.024	TP5 0.0-0.1 SOIL - 15/9/2022 SE237144.025	TP6 0.0-0.1 SOIL - 15/9/2022 SE237144.026
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7	<1.7	<1.7

PARAMETER	UOM	LOR	TP8 0.0-0.1 SOIL - 15/9/2022 SE237144.027	TP10 0.0-0.1 SOIL - 15/9/2022 SE237144.028	TP11 0.0-0.1 SOIL - 15/9/2022 SE237144.029	TP12 0.0-0.1 SOIL - 15/9/2022 SE237144.030	TP13 0.0-0.1 SOIL - 15/9/2022 SE237144.031
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7	<1.7	<1.7

OP Pesticides in Soil [AN420] Tested: 30/9/2022 (continued)

PARAMETER	UOM	LOR	TP14 0.0-0.1 SOIL - 15/9/2022 SE237144.032	TP15 0.0-0.1 SOIL - 15/9/2022 SE237144.033	TP16 0.0-0.1 SOIL - 15/9/2022 SE237144.034	TP17 0.0-0.1 SOIL - 15/9/2022 SE237144.035	TP18 0.0-0.1 SOIL - 15/9/2022 SE237144.036
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7	<1.7	<1.7

PARAMETER	UOM	LOR	TP19 0.0-0.1 SOIL - 15/9/2022 SE237144.037	TP20 0.0-0.1 SOIL - 15/9/2022 SE237144.038	TP21 0.0-0.1 SOIL - 15/9/2022 SE237144.039	TP22 0.0-0.1 SOIL - 15/9/2022 SE237144.040	TP23 0.0-0.1 SOIL - 15/9/2022 SE237144.041
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7	<1.7	<1.7

PARAMETER	UOM	LOR	TP24 0.0-0.1 SOIL - 15/9/2022 SE237144.042	TP25 0.0-0.1 SOIL - 15/9/2022 SE237144.043	TP26 0.0-0.1 SOIL - 15/9/2022 SE237144.044	TP27 0.0-0.1 SOIL - 15/9/2022 SE237144.045	TP28 0.0-0.1 SOIL - 15/9/2022 SE237144.046
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7	<1.7	<1.7

OP Pesticides in Soil [AN420] Tested: 30/9/2022 (continued)

PARAMETER	UOM	LOR	TP29 0.0-0.1 SOIL - 15/9/2022 SE237144.047	TP30 0.0-0.1 SOIL - 15/9/2022 SE237144.048	TP31 0.0-0.1 SOIL - 15/9/2022 SE237144.049	TP32 0.0-0.1 SOIL - 15/9/2022 SE237144.050	TP33 0.0-0.1 SOIL - 15/9/2022 SE237144.051
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7	<1.7	<1.7

PARAMETER	UOM	LOR	TP34 0.0-0.1 SOIL - 15/9/2022 SE237144.052	TP35 0.0-0.1 SOIL - 15/9/2022 SE237144.053	TP36 0.0-0.1 SOIL - 15/9/2022 SE237144.054	TP37 0.0-0.1 SOIL - 15/9/2022 SE237144.055	TP38 0.0-0.1 SOIL - 15/9/2022 SE237144.056
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7	<1.7	<1.7

PARAMETER	UOM	LOR	TP39 0.0-0.1 SOIL - 16/9/2022 SE237144.057	TP40 0.0-0.1 SOIL - 16/9/2022 SE237144.058
Dichlorvos	mg/kg	0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7

PCBs in Soil [AN420] Tested: 30/9/2022

PARAMETER	UOM	LOR	SS1 SOIL - 23/9/2022 SE237144.002	SS2 SOIL - 23/9/2022 SE237144.003	SS3 SOIL - 23/9/2022 SE237144.004	SS4 SOIL - 23/9/2022 SE237144.005	SS5 SOIL - 23/9/2022 SE237144.006
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PARAMETER	UOM	LOR	SS6 SOIL - 23/9/2022 SE237144.007	SS7 SOIL - 16/9/2022 SE237144.008	SS8 SOIL - 16/9/2022 SE237144.009	SS9 SOIL - 16/9/2022 SE237144.010	SA1 0.0-0.1 SOIL - 16/9/2022 SE237144.011
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PARAMETER	UOM	LOR	SA2 0.0-0.1 SOIL - 16/9/2022 SE237144.012	SA3 0.5-0.6 SOIL - 16/9/2022 SE237144.013	SA4 0.0-0.1 SOIL - 16/9/2022 SE237144.014	SA5 0.0-0.1 SOIL - 16/9/2022 SE237144.015	SA6 0.5-0.6 SOIL - 16/9/2022 SE237144.016
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PCBs in Soil [AN420] Tested: 30/9/2022 (continued)

PARAMETER	UOM	LOR	SA7 0.0-0.1 SOIL - 16/9/2022 SE237144.017	SA8 0.0-0.1 SOIL - 16/9/2022 SE237144.018	SA9 0.5-0.6 SOIL - 16/9/2022 SE237144.019	SA10 0.0-0.1 SOIL - 16/9/2022 SE237144.020	TP1 0.0-0.1 SOIL - 15/9/2022 SE237144.021
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PARAMETER	UOM	LOR	TP2 0.0-0.2 SOIL - 15/9/2022 SE237144.022	TP3 0.0-0.1 SOIL - 15/9/2022 SE237144.023	TP4 0.0-0.1 SOIL - 15/9/2022 SE237144.024	TP5 0.0-0.1 SOIL - 15/9/2022 SE237144.025	TP6 0.0-0.1 SOIL - 15/9/2022 SE237144.026
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PARAMETER	UOM	LOR	TP8 0.0-0.1 SOIL - 15/9/2022 SE237144.027	TP10 0.0-0.1 SOIL - 15/9/2022 SE237144.028	TP11 0.0-0.1 SOIL - 15/9/2022 SE237144.029	TP12 0.0-0.1 SOIL - 15/9/2022 SE237144.030	TP13 0.0-0.1 SOIL - 15/9/2022 SE237144.031
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PCBs in Soil [AN420] Tested: 30/9/2022 (continued)

PARAMETER	UOM	LOR	TP14 0.0-0.1 SOIL - 15/9/2022 SE237144.032	TP15 0.0-0.1 SOIL - 15/9/2022 SE237144.033	TP16 0.0-0.1 SOIL - 15/9/2022 SE237144.034	TP17 0.0-0.1 SOIL - 15/9/2022 SE237144.035	TP18 0.0-0.1 SOIL - 15/9/2022 SE237144.036
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PARAMETER	UOM	LOR	TP19 0.0-0.1 SOIL - 15/9/2022 SE237144.037	TP20 0.0-0.1 SOIL - 15/9/2022 SE237144.038	TP21 0.0-0.1 SOIL - 15/9/2022 SE237144.039	TP22 0.0-0.1 SOIL - 15/9/2022 SE237144.040	TP23 0.0-0.1 SOIL - 15/9/2022 SE237144.041
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PARAMETER	UOM	LOR	TP24 0.0-0.1 SOIL - 15/9/2022 SE237144.042	TP25 0.0-0.1 SOIL - 15/9/2022 SE237144.043	TP26 0.0-0.1 SOIL - 15/9/2022 SE237144.044	TP27 0.0-0.1 SOIL - 15/9/2022 SE237144.045	TP28 0.0-0.1 SOIL - 15/9/2022 SE237144.046
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PCBs in Soil [AN420] Tested: 30/9/2022 (continued)

PARAMETER	UOM	LOR	TP29 0.0-0.1 SOIL - 15/9/2022 SE237144.047	TP30 0.0-0.1 SOIL - 15/9/2022 SE237144.048	TP31 0.0-0.1 SOIL - 15/9/2022 SE237144.049	TP32 0.0-0.1 SOIL - 15/9/2022 SE237144.050	TP33 0.0-0.1 SOIL - 15/9/2022 SE237144.051
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PARAMETER	UOM	LOR	TP34 0.0-0.1 SOIL - 15/9/2022 SE237144.052	TP35 0.0-0.1 SOIL - 15/9/2022 SE237144.053	TP36 0.0-0.1 SOIL - 15/9/2022 SE237144.054	TP37 0.0-0.1 SOIL - 15/9/2022 SE237144.055	TP38 0.0-0.1 SOIL - 15/9/2022 SE237144.056
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PARAMETER	UOM	LOR	TP39 0.0-0.1 SOIL - 16/9/2022 SE237144.057	TP40 0.0-0.1 SOIL - 16/9/2022 SE237144.058
Arochlor 1016	mg/kg	0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1

Speciated Phenols in Soil [AN420] Tested: 30/9/2022

PARAMETER	UOM	LOR	SS1 SOIL - 23/9/2022 SE237144.002	SS2 SOIL - 23/9/2022 SE237144.003	SS3 SOIL - 23/9/2022 SE237144.004	SS4 SOIL - 23/9/2022 SE237144.005	SS5 SOIL - 23/9/2022 SE237144.006
Phenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	<1	<1	<1
Total Cresol	mg/kg	1.5	<1.5	<1.5	<1.5	<1.5	<1.5
2-chlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-nitrophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-nitrophenol	mg/kg	1	<1	<1	<1	<1	<1
2,4,5-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	<1	<1	<1
Pentachlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dinitrophenol	mg/kg	2	<2	<2	<2	<2	<2
4-chloro-3-methylphenol	mg/kg	2	<2	<2	<2	<2	<2

PARAMETER	UOM	LOR	SS6 SOIL - 23/9/2022 SE237144.007	SS7 SOIL - 16/9/2022 SE237144.008	SS8 SOIL - 16/9/2022 SE237144.009	SS9 SOIL - 16/9/2022 SE237144.010	SA1 0.0-0.1 SOIL - 16/9/2022 SE237144.011
Phenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	<1	<1	<1
Total Cresol	mg/kg	1.5	<1.5	<1.5	<1.5	<1.5	<1.5
2-chlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-nitrophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-nitrophenol	mg/kg	1	<1	<1	<1	<1	<1
2,4,5-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	<1	<1	<1
Pentachlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dinitrophenol	mg/kg	2	<2	<2	<2	<2	<2
4-chloro-3-methylphenol	mg/kg	2	<2	<2	<2	<2	<2

Speciated Phenols in Soil [AN420] Tested: 30/9/2022 (continued)

PARAMETER	UOM	LOR	SA2 0.0-0.1 SOIL - 16/9/2022 SE237144.012	SA3 0.5-0.6 SOIL - 16/9/2022 SE237144.013	SA4 0.0-0.1 SOIL - 16/9/2022 SE237144.014	SA5 0.0-0.1 SOIL - 16/9/2022 SE237144.015	SA6 0.5-0.6 SOIL - 16/9/2022 SE237144.016
Phenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	<1	<1	<1
Total Cresol	mg/kg	1.5	<1.5	<1.5	<1.5	<1.5	<1.5
2-chlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-nitrophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-nitrophenol	mg/kg	1	<1	<1	<1	<1	<1
2,4,5-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	<1	<1	<1
Pentachlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dinitrophenol	mg/kg	2	<2	<2	<2	<2	<2
4-chloro-3-methylphenol	mg/kg	2	<2	<2	<2	<2	<2

PARAMETER	UOM	LOR	SA7 0.0-0.1 SOIL - 16/9/2022 SE237144.017	SA8 0.0-0.1 SOIL - 16/9/2022 SE237144.018	SA9 0.5-0.6 SOIL - 16/9/2022 SE237144.019	SA10 0.0-0.1 SOIL - 16/9/2022 SE237144.020	TP1 0.0-0.1 SOIL - 15/9/2022 SE237144.021
Phenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	<1	<1	<1
Total Cresol	mg/kg	1.5	<1.5	<1.5	<1.5	<1.5	<1.5
2-chlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-nitrophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-nitrophenol	mg/kg	1	<1	<1	<1	<1	<1
2,4,5-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	<1	<1	<1
Pentachlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dinitrophenol	mg/kg	2	<2	<2	<2	<2	<2
4-chloro-3-methylphenol	mg/kg	2	<2	<2	<2	<2	<2

Speciated Phenols in Soil [AN420] Tested: 30/9/2022 (continued)

PARAMETER	UOM	LOR	TP2 0.0-0.2 SOIL - 15/9/2022 SE237144.022	TP3 0.0-0.1 SOIL - 15/9/2022 SE237144.023	TP4 0.0-0.1 SOIL - 15/9/2022 SE237144.024	TP5 0.0-0.1 SOIL - 15/9/2022 SE237144.025	TP6 0.0-0.1 SOIL - 15/9/2022 SE237144.026
Phenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	<1	<1	<1
Total Cresol	mg/kg	1.5	<1.5	<1.5	<1.5	<1.5	<1.5
2-chlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-nitrophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-nitrophenol	mg/kg	1	<1	<1	<1	<1	<1
2,4,5-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	<1	<1	<1
Pentachlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dinitrophenol	mg/kg	2	<2	<2	<2	<2	<2
4-chloro-3-methylphenol	mg/kg	2	<2	<2	<2	<2	<2

PARAMETER	UOM	LOR	TP8 0.0-0.1 SOIL - 15/9/2022 SE237144.027	TP10 0.0-0.1 SOIL - 15/9/2022 SE237144.028	TP11 0.0-0.1 SOIL - 15/9/2022 SE237144.029	TP12 0.0-0.1 SOIL - 15/9/2022 SE237144.030	TP13 0.0-0.1 SOIL - 15/9/2022 SE237144.031
Phenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	<1	<1	<1
Total Cresol	mg/kg	1.5	<1.5	<1.5	<1.5	<1.5	<1.5
2-chlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-nitrophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-nitrophenol	mg/kg	1	<1	<1	<1	<1	<1
2,4,5-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	<1	<1	<1
Pentachlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dinitrophenol	mg/kg	2	<2	<2	<2	<2	<2
4-chloro-3-methylphenol	mg/kg	2	<2	<2	<2	<2	<2

Speciated Phenols in Soil [AN420] Tested: 30/9/2022 (continued)

PARAMETER	UOM	LOR	TP14 0.0-0.1 SOIL - 15/9/2022 SE237144.032	TP15 0.0-0.1 SOIL - 15/9/2022 SE237144.033	TP16 0.0-0.1 SOIL - 15/9/2022 SE237144.034	TP17 0.0-0.1 SOIL - 15/9/2022 SE237144.035	TP18 0.0-0.1 SOIL - 15/9/2022 SE237144.036
Phenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	<1	<1	<1
Total Cresol	mg/kg	1.5	<1.5	<1.5	<1.5	<1.5	<1.5
2-chlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-nitrophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-nitrophenol	mg/kg	1	<1	<1	<1	<1	<1
2,4,5-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	<1	<1	<1
Pentachlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dinitrophenol	mg/kg	2	<2	<2	<2	<2	<2
4-chloro-3-methylphenol	mg/kg	2	<2	<2	<2	<2	<2

PARAMETER	UOM	LOR	TP19 0.0-0.1 SOIL - 15/9/2022 SE237144.037	TP20 0.0-0.1 SOIL - 15/9/2022 SE237144.038	TP21 0.0-0.1 SOIL - 15/9/2022 SE237144.039	TP22 0.0-0.1 SOIL - 15/9/2022 SE237144.040	TP23 0.0-0.1 SOIL - 15/9/2022 SE237144.041
Phenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	<1	<1	<1
Total Cresol	mg/kg	1.5	<1.5	<1.5	<1.5	<1.5	<1.5
2-chlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-nitrophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-nitrophenol	mg/kg	1	<1	<1	<1	<1	<1
2,4,5-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	<1	<1	<1
Pentachlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dinitrophenol	mg/kg	2	<2	<2	<2	<2	<2
4-chloro-3-methylphenol	mg/kg	2	<2	<2	<2	<2	<2

Speciated Phenols in Soil [AN420] Tested: 30/9/2022 (continued)

PARAMETER	UOM	LOR	TP24 0.0-0.1 SOIL - 15/9/2022 SE237144.042	TP25 0.0-0.1 SOIL - 15/9/2022 SE237144.043	TP26 0.0-0.1 SOIL - 15/9/2022 SE237144.044	TP27 0.0-0.1 SOIL - 15/9/2022 SE237144.045	TP28 0.0-0.1 SOIL - 15/9/2022 SE237144.046
Phenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	<1	<1	<1
Total Cresol	mg/kg	1.5	<1.5	<1.5	<1.5	<1.5	<1.5
2-chlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-nitrophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-nitrophenol	mg/kg	1	<1	<1	<1	<1	<1
2,4,5-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	<1	<1	<1
Pentachlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dinitrophenol	mg/kg	2	<2	<2	<2	<2	<2
4-chloro-3-methylphenol	mg/kg	2	<2	<2	<2	<2	<2

PARAMETER	UOM	LOR	TP29 0.0-0.1 SOIL - 15/9/2022 SE237144.047	TP30 0.0-0.1 SOIL - 15/9/2022 SE237144.048	TP31 0.0-0.1 SOIL - 15/9/2022 SE237144.049	TP32 0.0-0.1 SOIL - 15/9/2022 SE237144.050	TP33 0.0-0.1 SOIL - 15/9/2022 SE237144.051
Phenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	<1	<1	<1
Total Cresol	mg/kg	1.5	<1.5	<1.5	<1.5	<1.5	<1.5
2-chlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-nitrophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-nitrophenol	mg/kg	1	<1	<1	<1	<1	<1
2,4,5-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	<1	<1	<1
Pentachlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dinitrophenol	mg/kg	2	<2	<2	<2	<2	<2
4-chloro-3-methylphenol	mg/kg	2	<2	<2	<2	<2	<2

Speciated Phenols in Soil [AN420] Tested: 30/9/2022 (continued)

PARAMETER	UOM	LOR	TP34 0.0-0.1 SOIL - 15/9/2022 SE237144.052	TP35 0.0-0.1 SOIL - 15/9/2022 SE237144.053	TP36 0.0-0.1 SOIL - 15/9/2022 SE237144.054	TP37 0.0-0.1 SOIL - 15/9/2022 SE237144.055	TP38 0.0-0.1 SOIL - 15/9/2022 SE237144.056
Phenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	<1	<1	<1
Total Cresol	mg/kg	1.5	<1.5	<1.5	<1.5	<1.5	<1.5
2-chlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-nitrophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-nitrophenol	mg/kg	1	<1	<1	<1	<1	<1
2,4,5-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	<1	<1	<1
Pentachlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dinitrophenol	mg/kg	2	<2	<2	<2	<2	<2
4-chloro-3-methylphenol	mg/kg	2	<2	<2	<2	<2	<2

PARAMETER	UOM	LOR	TP39 0.0-0.1 SOIL - 16/9/2022 SE237144.057	TP40 0.0-0.1 SOIL - 16/9/2022 SE237144.058
Phenol	mg/kg	0.5	<0.5	<0.5
2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5
3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1
Total Cresol	mg/kg	1.5	<1.5	<1.5
2-chlorophenol	mg/kg	0.5	<0.5	<0.5
2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5
2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5
2,4-dichlorophenol	mg/kg	0.5	<0.5	<0.5
2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5
2-nitrophenol	mg/kg	0.5	<0.5	<0.5
4-nitrophenol	mg/kg	1	<1	<1
2,4,5-trichlorophenol	mg/kg	0.5	<0.5	<0.5
2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1
Pentachlorophenol	mg/kg	0.5	<0.5	<0.5
2,4-dinitrophenol	mg/kg	2	<2	<2
4-chloro-3-methylphenol	mg/kg	2	<2	<2

pH in soil (1:5) [AN101] Tested: 29/9/2022

PARAMETER	UOM	LOR	TP5 0.0-0.1 SOIL - 15/9/2022 SE237144.025	TP31 0.0-0.1 SOIL - 15/9/2022 SE237144.049
pH	pH Units	0.1	**6.0**	**6.1**

Exchangeable Cations and Cation Exchange Capacity (CEC/ESP/SAR) [AN122] Tested: 6/10/2022

PARAMETER	UOM	LOR	TP5 0.0-0.1 SOIL - 15/9/2022 SE237144.025	TP31 0.0-0.1 SOIL - 15/9/2022 SE237144.049
Exchangeable Calcium, Ca	mg/kg	2	3100	3200
Exchangeable Calcium, Ca	meq/100g	0.01	16	16
Exchangeable Calcium Percentage*	%	0.1	51.2	61.9
Exchangeable Potassium, K	mg/kg	2	200	130
Exchangeable Potassium, K	meq/100g	0.01	0.52	0.33
Exchangeable Potassium Percentage*	%	0.1	1.7	1.3
Exchangeable Magnesium, Mg	mg/kg	2	1700	1100
Exchangeable Magnesium, Mg	meq/100g	0.02	14	9.4
Exchangeable Magnesium Percentage*	%	0.1	46.3	36.2
Exchangeable Sodium, Na	mg/kg	2	58	40
Exchangeable Sodium, Na	meq/100g	0.01	0.25	0.17
Exchangeable Sodium Percentage*	%	0.1	0.8	0.7
Cation Exchange Capacity	meq/100g	0.02	30	26

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 4/10/2022

PARAMETER	UOM	LOR	SS1 SOIL - 23/9/2022 SE237144.002	SS2 SOIL - 23/9/2022 SE237144.003	SS3 SOIL - 23/9/2022 SE237144.004	SS4 SOIL - 23/9/2022 SE237144.005	SS5 SOIL - 23/9/2022 SE237144.006
Arsenic, As	mg/kg	1	4	3	3	3	3
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	67	55	71	52	56
Copper, Cu	mg/kg	0.5	43	30	40	43	33
Lead, Pb	mg/kg	1	7	9	12	24	30
Nickel, Ni	mg/kg	0.5	88	46	90	77	59
Zinc, Zn	mg/kg	2	44	50	59	110	130

PARAMETER	UOM	LOR	SS6 SOIL - 23/9/2022 SE237144.007	SS7 SOIL - 16/9/2022 SE237144.008	SS8 SOIL - 16/9/2022 SE237144.009	SS9 SOIL - 16/9/2022 SE237144.010	SA1 0.0-0.1 SOIL - 16/9/2022 SE237144.011
Arsenic, As	mg/kg	1	3	3	3	2	2
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	56	51	60	50	46
Copper, Cu	mg/kg	0.5	33	34	36	30	43
Lead, Pb	mg/kg	1	10	10	14	10	4
Nickel, Ni	mg/kg	0.5	80	76	68	69	150
Zinc, Zn	mg/kg	2	79	58	75	48	38

PARAMETER	UOM	LOR	SA2 0.0-0.1 SOIL - 16/9/2022 SE237144.012	SA3 0.5-0.6 SOIL - 16/9/2022 SE237144.013	SA4 0.0-0.1 SOIL - 16/9/2022 SE237144.014	SA5 0.0-0.1 SOIL - 16/9/2022 SE237144.015	SA6 0.5-0.6 SOIL - 16/9/2022 SE237144.016
Arsenic, As	mg/kg	1	2	1	2	3	2
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	66	27	55	52	46
Copper, Cu	mg/kg	0.5	22	21	29	36	25
Lead, Pb	mg/kg	1	4	2	4	8	5
Nickel, Ni	mg/kg	0.5	130	88	150	51	46
Zinc, Zn	mg/kg	2	48	23	49	43	34

PARAMETER	UOM	LOR	SA7 0.0-0.1 SOIL - 16/9/2022 SE237144.017	SA8 0.0-0.1 SOIL - 16/9/2022 SE237144.018	SA9 0.5-0.6 SOIL - 16/9/2022 SE237144.019	SA10 0.0-0.1 SOIL - 16/9/2022 SE237144.020	TP1 0.0-0.1 SOIL - 15/9/2022 SE237144.021
Arsenic, As	mg/kg	1	2	2	3	2	3
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	43	51	51	47	50
Copper, Cu	mg/kg	0.5	22	30	38	24	30
Lead, Pb	mg/kg	1	5	5	8	6	6
Nickel, Ni	mg/kg	0.5	42	62	55	46	54
Zinc, Zn	mg/kg	2	29	38	49	31	32

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 4/10/2022

(continued)

PARAMETER	UOM	LOR	TP2 0.0-0.2 SOIL - 15/9/2022 SE237144.022	TP3 0.0-0.1 SOIL - 15/9/2022 SE237144.023	TP4 0.0-0.1 SOIL - 15/9/2022 SE237144.024	TP5 0.0-0.1 SOIL - 15/9/2022 SE237144.025	TP6 0.0-0.1 SOIL - 15/9/2022 SE237144.026
Arsenic, As	mg/kg	1	2	3	3	3	2
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	49	49	78	100	45
Copper, Cu	mg/kg	0.5	23	29	40	49	57
Lead, Pb	mg/kg	1	9	7	7	7	3
Nickel, Ni	mg/kg	0.5	36	76	49	71	130
Zinc, Zn	mg/kg	2	34	32	34	31	54

PARAMETER	UOM	LOR	TP8 0.0-0.1 SOIL - 15/9/2022 SE237144.027	TP10 0.0-0.1 SOIL - 15/9/2022 SE237144.028	TP11 0.0-0.1 SOIL - 15/9/2022 SE237144.029	TP12 0.0-0.1 SOIL - 15/9/2022 SE237144.030	TP13 0.0-0.1 SOIL - 15/9/2022 SE237144.031
Arsenic, As	mg/kg	1	1	3	2	3	3
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	31	49	60	76	60
Copper, Cu	mg/kg	0.5	46	30	34	42	36
Lead, Pb	mg/kg	1	2	7	7	7	7
Nickel, Ni	mg/kg	0.5	89	47	89	93	67
Zinc, Zn	mg/kg	2	27	38	40	45	34

PARAMETER	UOM	LOR	TP14 0.0-0.1 SOIL - 15/9/2022 SE237144.032	TP15 0.0-0.1 SOIL - 15/9/2022 SE237144.033	TP16 0.0-0.1 SOIL - 15/9/2022 SE237144.034	TP17 0.0-0.1 SOIL - 15/9/2022 SE237144.035	TP18 0.0-0.1 SOIL - 15/9/2022 SE237144.036
Arsenic, As	mg/kg	1	2	2	2	2	2
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	67	51	59	60	45
Copper, Cu	mg/kg	0.5	57	34	43	49	19
Lead, Pb	mg/kg	1	4	4	4	4	9
Nickel, Ni	mg/kg	0.5	120	110	120	130	51
Zinc, Zn	mg/kg	2	36	42	43	42	38

PARAMETER	UOM	LOR	TP19 0.0-0.1 SOIL - 15/9/2022 SE237144.037	TP20 0.0-0.1 SOIL - 15/9/2022 SE237144.038	TP21 0.0-0.1 SOIL - 15/9/2022 SE237144.039	TP22 0.0-0.1 SOIL - 15/9/2022 SE237144.040	TP23 0.0-0.1 SOIL - 15/9/2022 SE237144.041
Arsenic, As	mg/kg	1	4	2	2	3	2
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	54	56	71	68	63
Copper, Cu	mg/kg	0.5	32	47	36	46	44
Lead, Pb	mg/kg	1	7	5	7	6	5
Nickel, Ni	mg/kg	0.5	92	88	48	75	66
Zinc, Zn	mg/kg	2	63	58	33	51	44

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 4/10/2022

(continued)

PARAMETER	UOM	LOR	TP24 0.0-0.1 SOIL - 15/9/2022 SE237144.042	TP25 0.0-0.1 SOIL - 15/9/2022 SE237144.043	TP26 0.0-0.1 SOIL - 15/9/2022 SE237144.044	TP27 0.0-0.1 SOIL - 15/9/2022 SE237144.045	TP28 0.0-0.1 SOIL - 15/9/2022 SE237144.046
Arsenic, As	mg/kg	1	2	2	3	2	1
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	50	56	62	81	67
Copper, Cu	mg/kg	0.5	34	61	39	51	37
Lead, Pb	mg/kg	1	7	3	7	5	12
Nickel, Ni	mg/kg	0.5	70	95	62	150	100
Zinc, Zn	mg/kg	2	49	49	42	59	48

PARAMETER	UOM	LOR	TP29 0.0-0.1 SOIL - 15/9/2022 SE237144.047	TP30 0.0-0.1 SOIL - 15/9/2022 SE237144.048	TP31 0.0-0.1 SOIL - 15/9/2022 SE237144.049	TP32 0.0-0.1 SOIL - 15/9/2022 SE237144.050	TP33 0.0-0.1 SOIL - 15/9/2022 SE237144.051
Arsenic, As	mg/kg	1	2	2	1	2	2
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	48	50	31	46	32
Copper, Cu	mg/kg	0.5	26	20	23	30	13
Lead, Pb	mg/kg	1	5	6	3	8	5
Nickel, Ni	mg/kg	0.5	58	50	92	47	29
Zinc, Zn	mg/kg	2	39	33	29	48	25

PARAMETER	UOM	LOR	TP34 0.0-0.1 SOIL - 15/9/2022 SE237144.052	TP35 0.0-0.1 SOIL - 15/9/2022 SE237144.053	TP36 0.0-0.1 SOIL - 15/9/2022 SE237144.054	TP37 0.0-0.1 SOIL - 15/9/2022 SE237144.055	TP38 0.0-0.1 SOIL - 15/9/2022 SE237144.056
Arsenic, As	mg/kg	1	2	2	5	2	1
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	50	47	32	51	62
Copper, Cu	mg/kg	0.5	47	30	15	28	41
Lead, Pb	mg/kg	1	3	3	10	6	3
Nickel, Ni	mg/kg	0.5	97	130	21	57	140
Zinc, Zn	mg/kg	2	35	31	35	39	53

PARAMETER	UOM	LOR	TP39 0.0-0.1 SOIL - 16/9/2022 SE237144.057	TP40 0.0-0.1 SOIL - 16/9/2022 SE237144.058	QC1 SOIL - 14/9/2022 SE237144.059	QC3 SOIL - 15/9/2022 SE237144.060	QC5 SOIL - 15/9/2022 SE237144.061
Arsenic, As	mg/kg	1	2	2	5	3	3
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	43	60	52	69	79
Copper, Cu	mg/kg	0.5	45	38	36	40	53
Lead, Pb	mg/kg	1	3	4	41	6	6
Nickel, Ni	mg/kg	0.5	130	140	56	100	83
Zinc, Zn	mg/kg	2	40	49	170	46	57

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 4/10/2022

(continued)

PARAMETER	UOM	LOR	QC7 SOIL - 16/9/2022 SE237144.062
Arsenic, As	mg/kg	1	**2**
Cadmium, Cd	mg/kg	0.3	<0.3
Chromium, Cr	mg/kg	0.5	**55**
Copper, Cu	mg/kg	0.5	**29**
Lead, Pb	mg/kg	1	**4**
Nickel, Ni	mg/kg	0.5	**130**
Zinc, Zn	mg/kg	2	**49**

Mercury in Soil [AN312] Tested: 4/10/2022

PARAMETER	UOM	LOR	SS1 SOIL - 23/9/2022 SE237144.002	SS2 SOIL - 23/9/2022 SE237144.003	SS3 SOIL - 23/9/2022 SE237144.004	SS4 SOIL - 23/9/2022 SE237144.005	SS5 SOIL - 23/9/2022 SE237144.006
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	SS6 SOIL - 23/9/2022 SE237144.007	SS7 SOIL - 16/9/2022 SE237144.008	SS8 SOIL - 16/9/2022 SE237144.009	SS9 SOIL - 16/9/2022 SE237144.010	SA1 0.0-0.1 SOIL - 16/9/2022 SE237144.011
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	SA2 0.0-0.1 SOIL - 16/9/2022 SE237144.012	SA3 0.5-0.6 SOIL - 16/9/2022 SE237144.013	SA4 0.0-0.1 SOIL - 16/9/2022 SE237144.014	SA5 0.0-0.1 SOIL - 16/9/2022 SE237144.015	SA6 0.5-0.6 SOIL - 16/9/2022 SE237144.016
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	**0.08**	<0.05

PARAMETER	UOM	LOR	SA7 0.0-0.1 SOIL - 16/9/2022 SE237144.017	SA8 0.0-0.1 SOIL - 16/9/2022 SE237144.018	SA9 0.5-0.6 SOIL - 16/9/2022 SE237144.019	SA10 0.0-0.1 SOIL - 16/9/2022 SE237144.020	TP1 0.0-0.1 SOIL - 15/9/2022 SE237144.021
Mercury	mg/kg	0.05	**0.05**	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	TP2 0.0-0.2 SOIL - 15/9/2022 SE237144.022	TP3 0.0-0.1 SOIL - 15/9/2022 SE237144.023	TP4 0.0-0.1 SOIL - 15/9/2022 SE237144.024	TP5 0.0-0.1 SOIL - 15/9/2022 SE237144.025	TP6 0.0-0.1 SOIL - 15/9/2022 SE237144.026
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	TP8 0.0-0.1 SOIL - 15/9/2022 SE237144.027	TP10 0.0-0.1 SOIL - 15/9/2022 SE237144.028	TP11 0.0-0.1 SOIL - 15/9/2022 SE237144.029	TP12 0.0-0.1 SOIL - 15/9/2022 SE237144.030	TP13 0.0-0.1 SOIL - 15/9/2022 SE237144.031
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	TP14 0.0-0.1 SOIL - 15/9/2022 SE237144.032	TP15 0.0-0.1 SOIL - 15/9/2022 SE237144.033	TP16 0.0-0.1 SOIL - 15/9/2022 SE237144.034	TP17 0.0-0.1 SOIL - 15/9/2022 SE237144.035	TP18 0.0-0.1 SOIL - 15/9/2022 SE237144.036
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Mercury in Soil [AN312] Tested: 4/10/2022 (continued)

PARAMETER	UOM	LOR	TP19 0.0-0.1 SOIL - 15/9/2022 SE237144.037	TP20 0.0-0.1 SOIL - 15/9/2022 SE237144.038	TP21 0.0-0.1 SOIL - 15/9/2022 SE237144.039	TP22 0.0-0.1 SOIL - 15/9/2022 SE237144.040	TP23 0.0-0.1 SOIL - 15/9/2022 SE237144.041
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	TP24 0.0-0.1 SOIL - 15/9/2022 SE237144.042	TP25 0.0-0.1 SOIL - 15/9/2022 SE237144.043	TP26 0.0-0.1 SOIL - 15/9/2022 SE237144.044	TP27 0.0-0.1 SOIL - 15/9/2022 SE237144.045	TP28 0.0-0.1 SOIL - 15/9/2022 SE237144.046
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	TP29 0.0-0.1 SOIL - 15/9/2022 SE237144.047	TP30 0.0-0.1 SOIL - 15/9/2022 SE237144.048	TP31 0.0-0.1 SOIL - 15/9/2022 SE237144.049	TP32 0.0-0.1 SOIL - 15/9/2022 SE237144.050	TP33 0.0-0.1 SOIL - 15/9/2022 SE237144.051
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	TP34 0.0-0.1 SOIL - 15/9/2022 SE237144.052	TP35 0.0-0.1 SOIL - 15/9/2022 SE237144.053	TP36 0.0-0.1 SOIL - 15/9/2022 SE237144.054	TP37 0.0-0.1 SOIL - 15/9/2022 SE237144.055	TP38 0.0-0.1 SOIL - 15/9/2022 SE237144.056
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	TP39 0.0-0.1 SOIL - 16/9/2022 SE237144.057	TP40 0.0-0.1 SOIL - 16/9/2022 SE237144.058	QC1 SOIL - 14/9/2022 SE237144.059	QC3 SOIL - 15/9/2022 SE237144.060	QC5 SOIL - 15/9/2022 SE237144.061
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	QC7 SOIL - 16/9/2022 SE237144.062
Mercury	mg/kg	0.05	<0.05

Moisture Content [AN002] Tested: 30/9/2022

PARAMETER	UOM	LOR	SS1 SOIL - 23/9/2022 SE237144.002	SS2 SOIL - 23/9/2022 SE237144.003	SS3 SOIL - 23/9/2022 SE237144.004	SS4 SOIL - 23/9/2022 SE237144.005	SS5 SOIL - 23/9/2022 SE237144.006
% Moisture	%w/w	1	29.0	30.8	30.6	26.2	31.4

PARAMETER	UOM	LOR	SS6 SOIL - 23/9/2022 SE237144.007	SS7 SOIL - 16/9/2022 SE237144.008	SS8 SOIL - 16/9/2022 SE237144.009	SS9 SOIL - 16/9/2022 SE237144.010	SA1 0.0-0.1 SOIL - 16/9/2022 SE237144.011
% Moisture	%w/w	1	23.7	27.6	32.0	19.4	23.2

PARAMETER	UOM	LOR	SA2 0.0-0.1 SOIL - 16/9/2022 SE237144.012	SA3 0.5-0.6 SOIL - 16/9/2022 SE237144.013	SA4 0.0-0.1 SOIL - 16/9/2022 SE237144.014	SA5 0.0-0.1 SOIL - 16/9/2022 SE237144.015	SA6 0.5-0.6 SOIL - 16/9/2022 SE237144.016
% Moisture	%w/w	1	18.8	7.8	25.5	21.3	17.0

PARAMETER	UOM	LOR	SA7 0.0-0.1 SOIL - 16/9/2022 SE237144.017	SA8 0.0-0.1 SOIL - 16/9/2022 SE237144.018	SA9 0.5-0.6 SOIL - 16/9/2022 SE237144.019	SA10 0.0-0.1 SOIL - 16/9/2022 SE237144.020	TP1 0.0-0.1 SOIL - 15/9/2022 SE237144.021
% Moisture	%w/w	1	14.3	17.5	24.9	15.1	14.6

PARAMETER	UOM	LOR	TP2 0.0-0.2 SOIL - 15/9/2022 SE237144.022	TP3 0.0-0.1 SOIL - 15/9/2022 SE237144.023	TP4 0.0-0.1 SOIL - 15/9/2022 SE237144.024	TP5 0.0-0.1 SOIL - 15/9/2022 SE237144.025	TP6 0.0-0.1 SOIL - 15/9/2022 SE237144.026
% Moisture	%w/w	1	20.2	20.1	29.7	30.1	22.2

PARAMETER	UOM	LOR	TP8 0.0-0.1 SOIL - 15/9/2022 SE237144.027	TP10 0.0-0.1 SOIL - 15/9/2022 SE237144.028	TP11 0.0-0.1 SOIL - 15/9/2022 SE237144.029	TP12 0.0-0.1 SOIL - 15/9/2022 SE237144.030	TP13 0.0-0.1 SOIL - 15/9/2022 SE237144.031
% Moisture	%w/w	1	17.3	19.5	21.6	27.6	23.6

PARAMETER	UOM	LOR	TP14 0.0-0.1 SOIL - 15/9/2022 SE237144.032	TP15 0.0-0.1 SOIL - 15/9/2022 SE237144.033	TP16 0.0-0.1 SOIL - 15/9/2022 SE237144.034	TP17 0.0-0.1 SOIL - 15/9/2022 SE237144.035	TP18 0.0-0.1 SOIL - 15/9/2022 SE237144.036
% Moisture	%w/w	1	25.5	26.9	17.4	25.7	16.5

Moisture Content [AN002] Tested: 30/9/2022 (continued)

PARAMETER	UOM	LOR	TP19 0.0-0.1 SOIL - 15/9/2022 SE237144.037	TP20 0.0-0.1 SOIL - 15/9/2022 SE237144.038	TP21 0.0-0.1 SOIL - 15/9/2022 SE237144.039	TP22 0.0-0.1 SOIL - 15/9/2022 SE237144.040	TP23 0.0-0.1 SOIL - 15/9/2022 SE237144.041
% Moisture	%w/w	1	20.8	23.0	21.1	27.3	26.8

PARAMETER	UOM	LOR	TP24 0.0-0.1 SOIL - 15/9/2022 SE237144.042	TP25 0.0-0.1 SOIL - 15/9/2022 SE237144.043	TP26 0.0-0.1 SOIL - 15/9/2022 SE237144.044	TP27 0.0-0.1 SOIL - 15/9/2022 SE237144.045	TP28 0.0-0.1 SOIL - 15/9/2022 SE237144.046
% Moisture	%w/w	1	20.6	26.5	24.2	32.5	22.3

PARAMETER	UOM	LOR	TP29 0.0-0.1 SOIL - 15/9/2022 SE237144.047	TP30 0.0-0.1 SOIL - 15/9/2022 SE237144.048	TP31 0.0-0.1 SOIL - 15/9/2022 SE237144.049	TP32 0.0-0.1 SOIL - 15/9/2022 SE237144.050	TP33 0.0-0.1 SOIL - 15/9/2022 SE237144.051
% Moisture	%w/w	1	15.0	14.9	21.4	18.7	13.6

PARAMETER	UOM	LOR	TP34 0.0-0.1 SOIL - 15/9/2022 SE237144.052	TP35 0.0-0.1 SOIL - 15/9/2022 SE237144.053	TP36 0.0-0.1 SOIL - 15/9/2022 SE237144.054	TP37 0.0-0.1 SOIL - 15/9/2022 SE237144.055	TP38 0.0-0.1 SOIL - 15/9/2022 SE237144.056
% Moisture	%w/w	1	16.0	13.9	13.4	18.2	21.0

PARAMETER	UOM	LOR	TP39 0.0-0.1 SOIL - 16/9/2022 SE237144.057	TP40 0.0-0.1 SOIL - 16/9/2022 SE237144.058	QC1 SOIL - 14/9/2022 SE237144.059	QC3 SOIL - 15/9/2022 SE237144.060	QC5 SOIL - 15/9/2022 SE237144.061
% Moisture	%w/w	1	20.8	24.5	32.7	25.8	27.1

PARAMETER	UOM	LOR	QC7 SOIL - 16/9/2022 SE237144.062
% Moisture	%w/w	1	16.3

Per- and Polyfluoroalkyl Substances (PFAS) in Solid Samples [MA-1523] Tested: 5/10/2022

PARAMETER	UOM	LOR	SS6 SOIL - 23/9/2022 SE237144.007	SS7 SOIL - 16/9/2022 SE237144.008	SS8 SOIL - 16/9/2022 SE237144.009	SS9 SOIL - 16/9/2022 SE237144.010
Perfluorobutanoic acid (PFBA)	mg/kg	0.0016	<0.0016	<0.0016	<0.0016	<0.0016
Perfluoropentanoic acid (PFPeA)	mg/kg	0.0016	<0.0016	<0.0016	<0.0016	<0.0016
Perfluorohexanoic acid (PFHxA)	mg/kg	0.0016	<0.0016	<0.0016	<0.0016	<0.0016
Perfluoroheptanoic acid (PFHpA)	mg/kg	0.0016	<0.0016	<0.0016	<0.0016	<0.0016
Perfluorooctanoic Acid (PFOA)	mg/kg	0.0008	<0.0008	<0.0008	<0.0008	<0.0008
Perfluorononanoic acid (PFNA)	mg/kg	0.0016	<0.0016	<0.0016	<0.0016	<0.0016
Perfluorodecanoic acid (PFDA)	mg/kg	0.0016	<0.0016	<0.0016	<0.0016	<0.0016
Perfluoroundecanoic acid (PFUnA)	mg/kg	0.0016	<0.0016	<0.0016	<0.0016	<0.0016
Perfluorododecanoic acid (PFDoA)	mg/kg	0.0016	<0.0016	<0.0016	<0.0016	<0.0016
Perfluorotridecanoic acid (PFTrDA)	mg/kg	0.0016	<0.0016	<0.0016	<0.0016	<0.0016
Perfluorotetradecanoic acid (PFTeDA)	mg/kg	0.0016	<0.0016	<0.0016	<0.0016	<0.0016
Perfluorohexadecanoic acid (PFHxDA)	mg/kg	0.0032	<0.0032	<0.0032	<0.0032	<0.0032
Perfluorobutane sulfonate (PFBS)	mg/kg	0.0016	<0.0016	<0.0016	<0.0016	<0.0016
Perfluoropentane sulfonate (PFPeS)	mg/kg	0.0016	<0.0016	<0.0016	<0.0016	<0.0016
Perfluorohexane sulfonate (PFHxS)	mg/kg	0.0016	<0.0016	<0.0016	<0.0016	<0.0016
Perfluoroheptane sulfonate (PFHpS)	mg/kg	0.0016	<0.0016	<0.0016	<0.0016	<0.0016
Perfluorooctane sulfonate (PFOS)	mg/kg	0.0016	<0.0016	<0.0016	<0.0016	<0.0016
Sum PFOS and PFHXS	mg/kg	0.0016	<0.0016	<0.0016	<0.0016	<0.0016
Perfluorononane sulfonate (PFNS)	mg/kg	0.0016	<0.0016	<0.0016	<0.0016	<0.0016
Perfluorodecane sulfonate (PFDS)	mg/kg	0.0016	<0.0016	<0.0016	<0.0016	<0.0016
Perfluorododecane sulfonate (PFDoS)	mg/kg	0.0016	<0.0016	<0.0016	<0.0016	<0.0016
1H,1H,2H,2H-Perfluorohexane sulfonate (4:2) (4:2 FTS)	mg/kg	0.0016	<0.0016	<0.0016	<0.0016	<0.0016
1H,1H,2H,2H-Perfluorooctane sulfonate (6:2) (6:2 FTS)	mg/kg	0.0016	<0.0016	<0.0016	<0.0016	<0.0016
1H,1H,2H,2H-Perfluorodecane sulfonate (8:2) (8:2 FTS)	mg/kg	0.0016	<0.0016	<0.0016	<0.0016	<0.0016
Perfluorooctane sulfonamide (PFOSA)	mg/kg	0.0016	<0.0016	<0.0016	<0.0016	<0.0016
N-Methylperfluorooctane sulfonamide (N-MeFOSA)	mg/kg	0.008	<0.008	<0.008	<0.008	<0.008
N-Ethylperfluorooctane sulfonamide (N-EtFOSA)	mg/kg	0.008	<0.008	<0.008	<0.008	<0.008
2-(N-Methylperfluorooctane sulfonamido)-ethanol	mg/kg	0.016	<0.016	<0.016	<0.016	<0.016
2-(N-Ethylperfluorooctane sulfonamido)-ethanol	mg/kg	0.016	<0.016	<0.016	<0.016	<0.016
N-Methylperfluorooctanesulfonamidoacetic acid	mg/kg	0.008	<0.008	<0.008	<0.008	<0.008
N-Ethylperfluorooctanesulfonamidoacetic Acid	mg/kg	0.008	<0.008	<0.008	<0.008	<0.008
Total of PFAS (n=30)	mg/kg	0.08	<0.08	<0.08	<0.08	<0.08

Particle sizing of soils by sieving [AN005] Tested: 5/10/2022

PARAMETER	UOM	LOR	TP5 0.0-0.1 SOIL - 15/9/2022 SE237144.025	TP31 0.0-0.1 SOIL - 15/9/2022 SE237144.049
Passing 75µm*	%w/w	1	**79**	**24**
Retained 75µm*	%w/w	1	**21**	**76**

Particle sizing of soils <75µm by hydrometer [AN005] Tested: 5/10/2022

PARAMETER	UOM	LOR	TP5 0.0-0.1 SOIL - 15/9/2022 SE237144.025	TP31 0.0-0.1 SOIL - 15/9/2022 SE237144.049
Clay (<0.002mm)*	%w/w	0.1	**18**	**4.0**

VOCs in Water [AN433] Tested: 4/10/2022

PARAMETER	UOM	LOR	SW1 WATER - 23/9/2022 SE237144.001
Benzene	µg/L	0.5	<0.5
Toluene	µg/L	0.5	<0.5
Ethylbenzene	µg/L	0.5	<0.5
m/p-xylene	µg/L	1	<1
o-xylene	µg/L	0.5	<0.5
Naphthalene (VOC)	µg/L	0.5	<0.5
Total Xylenes	µg/L	1.5	<1.5
Total BTEX	µg/L	3	<3

Volatile Petroleum Hydrocarbons in Water [AN433] Tested: 4/10/2022

PARAMETER	UOM	LOR	SW1 WATER - 23/9/2022 SE237144.001
Benzene (F0)	µg/L	0.5	<0.5
TRH C6-C9	µg/L	40	<40
TRH C6-C10	µg/L	50	<50
TRH C6-C10 minus BTEX (F1)	µg/L	50	<50

TRH (Total Recoverable Hydrocarbons) in Water [AN403] Tested: 30/9/2022

PARAMETER	UOM	LOR	SW1 WATER - 23/9/2022 SE237144.001
TRH C10-C14	µg/L	50	<50
TRH C15-C28	µg/L	200	<200
TRH C29-C36	µg/L	200	<200
TRH C37-C40	µg/L	200	<200
TRH >C10-C16	µg/L	60	<60
TRH >C10-C16 - Naphthalene (F2)	µg/L	60	<60
TRH >C16-C34 (F3)	µg/L	500	<500
TRH >C34-C40 (F4)	µg/L	500	<500
TRH C10-C40	µg/L	320	<320

PAH (Polynuclear Aromatic Hydrocarbons) in Water [AN420] Tested: 30/9/2022

PARAMETER	UOM	LOR	SW1 WATER - 23/9/2022 SE237144.001
Naphthalene	µg/L	0.1	<0.1
2-methylnaphthalene	µg/L	0.1	<0.1
1-methylnaphthalene	µg/L	0.1	<0.1
Acenaphthylene	µg/L	0.1	<0.1
Acenaphthene	µg/L	0.1	<0.1
Fluorene	µg/L	0.1	<0.1
Phenanthrene	µg/L	0.1	<0.1
Anthracene	µg/L	0.1	<0.1
Fluoranthene	µg/L	0.1	<0.1
Pyrene	µg/L	0.1	<0.1
Benzo(a)anthracene	µg/L	0.1	<0.1
Chrysene	µg/L	0.1	<0.1
Benzo(b&j)fluoranthene	µg/L	0.1	<0.1
Benzo(k)fluoranthene	µg/L	0.1	<0.1
Benzo(a)pyrene	µg/L	0.1	<0.1
Indeno(1,2,3-cd)pyrene	µg/L	0.1	<0.1
Dibenzo(ah)anthracene	µg/L	0.1	<0.1
Benzo(ghi)perylene	µg/L	0.1	<0.1
Total PAH (18)	µg/L	1	<1

OC Pesticides in Water [AN420] Tested: 30/9/2022

PARAMETER	UOM	LOR	SW1 WATER - 23/9/2022 SE237144.001
Alpha BHC	µg/L	0.1	<0.1
Hexachlorobenzene (HCB)	µg/L	0.1	<0.1
Beta BHC	µg/L	0.1	<0.1
Lindane (gamma BHC)	µg/L	0.1	<0.1
Delta BHC	µg/L	0.1	<0.1
Heptachlor	µg/L	0.1	<0.1
Aldrin	µg/L	0.1	<0.1
Heptachlor epoxide	µg/L	0.1	<0.1
Gamma Chlordane	µg/L	0.1	<0.1
Alpha Chlordane	µg/L	0.1	<0.1
Alpha Endosulfan	µg/L	0.1	<0.1
o,p'-DDE	µg/L	0.1	<0.1
p,p'-DDE	µg/L	0.1	<0.1
Dieldrin	µg/L	0.1	<0.1
Endrin	µg/L	0.1	<0.1
Beta Endosulfan	µg/L	0.1	<0.1
o,p'-DDD	µg/L	0.1	<0.1
p,p'-DDD	µg/L	0.1	<0.1
Endosulfan sulphate	µg/L	0.1	<0.1
o,p'-DDT	µg/L	0.1	<0.1
p,p'-DDT	µg/L	0.1	<0.1
Endrin ketone	µg/L	0.1	<0.1
Methoxychlor	µg/L	0.1	<0.1
trans-Nonachlor	µg/L	0.1	<0.1
Endrin aldehyde	µg/L	0.1	<0.1
Isodrin	µg/L	0.1	<0.1
Mirex	µg/L	0.1	<0.1
Total OC	µg/L	1	<1
Total OC	µg/L	1	<1

OP Pesticides in Water [AN420] Tested: 30/9/2022

PARAMETER	UOM	LOR	SW1 WATER - 23/9/2022 SE237144.001
Dichlorvos	µg/L	0.5	<0.5
Dimethoate	µg/L	0.5	<0.5
Diazinon (Dimpylate)	µg/L	0.5	<0.5
Fenitrothion	µg/L	0.2	<0.2
Malathion	µg/L	0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	<0.2
Parathion-ethyl (Parathion)	µg/L	0.2	<0.2
Bromophos Ethyl	µg/L	0.2	<0.2
Methidathion	µg/L	0.5	<0.5
Ethion	µg/L	0.2	<0.2
Azinphos-methyl	µg/L	0.2	<0.2

Speciated Phenols in Water [AN420] Tested: 30/9/2022

PARAMETER	UOM	LOR	SW1 WATER - 23/9/2022 SE237144.001
Phenol	µg/L	0.5	<0.5
2-methyl phenol (o-cresol)	µg/L	0.5	<0.5
3/4-methyl phenol (m/p-cresol)	µg/L	1	<1
Total Cresol	µg/L	1.5	<1.5
2-chlorophenol	µg/L	0.5	<0.5
2,4-dimethylphenol	µg/L	0.5	<0.5
2,6-dichlorophenol	µg/L	0.5	<0.5
2,4-dichlorophenol	µg/L	0.5	<0.5
2,4,6-trichlorophenol	µg/L	0.5	<0.5
2-nitrophenol	µg/L	0.5	<0.5
4-nitrophenol	µg/L	1	<1
2,4,5-trichlorophenol	µg/L	0.5	<0.5
2,3,4,6/2,3,5,6-tetrachlorophenol	µg/L	1	<1
Pentachlorophenol	µg/L	0.5	<0.5
2,4-dinitrophenol	µg/L	2	<2
4-chloro-3-methylphenol	µg/L	2	<2

PCBs in Water [AN420] Tested: 30/9/2022

PARAMETER	UOM	LOR	SW1 WATER - 23/9/2022 SE237144.001
Arochlor 1016	µg/L	1	<1
Arochlor 1221	µg/L	1	<1
Arochlor 1232	µg/L	1	<1
Arochlor 1242	µg/L	1	<1
Arochlor 1248	µg/L	1	<1
Arochlor 1254	µg/L	1	<1
Arochlor 1260	µg/L	1	<1
Arochlor 1262	µg/L	1	<1
Arochlor 1268	µg/L	1	<1
Total Arochlors*	µg/L	5	<5

Trace Metals (Dissolved) in Water by ICPMS [AN318] Tested: 4/10/2022

PARAMETER	UOM	LOR	SW1 WATER - 23/9/2022 SE237144.001
Arsenic	µg/L	1	<1
Cadmium	µg/L	0.1	<0.1
Chromium	µg/L	1	**1**
Copper	µg/L	1	**7**
Lead	µg/L	1	<1
Nickel	µg/L	1	**4**
Zinc	µg/L	5	<5

Mercury (dissolved) in Water [AN311(Perth)/AN312] Tested: 28/9/2022

PARAMETER	UOM	LOR	SW1 WATER - 23/9/2022 SE237144.001
Mercury	mg/L	0.0001	<0.0001

METHOD	METHODOLOGY SUMMARY
AN002	The test is carried out by drying (at either 40°C or 105°C) a known mass of sample in a weighed evaporating basin. After fully dry the sample is re-weighed. Samples such as sludge and sediment having high percentages of moisture will take some time in a drying oven for complete removal of water.
AN005	The particle size distribution of a soil is determined by wet sieving, using a maximum of 900 mL of deionised water to sieve all fractions down to 75 µm. Referenced to AS1289.3.6.1 and AS1141.11.
AN005	Following wet sieving of the sample,(particles smaller than 75 µm) a dispersing solution is added and a hydrometer is used to measure sedimentation. Soil density is determined and the percentage of each size fraction calculated. Referenced to AS1289.3.6.3.
AN020	Unpreserved water sample is filtered through a 0.45µm membrane filter and acidified with nitric acid similar to APHA3030B.
AN040/AN320	A portion of sample is digested with nitric acid to decompose organic matter and hydrochloric acid to complete the digestion of metals. The digest is then analysed by ICP OES with metals results reported on the dried sample basis. Based on USEPA method 200.8 and 6010C.
AN040	A portion of sample is digested with Nitric acid to decompose organic matter and Hydrochloric acid to complete the digestion of metals and then filtered for analysis by ASS or ICP as per USEPA Method 200.8.
AN101	pH in Soil Sludge Sediment and Water: pH is measured electrometrically using a combination electrode and is calibrated against 3 buffers purchased commercially. For soils, sediments and sludges, an extract with water (or 0.01M CaCl2) is made at a ratio of 1:5 and the pH determined and reported on the extract. Reference APHA 4500-H+.
AN122	Exchangeable Cations, CEC and ESP: Soil sample is extracted in 1M Ammonium Acetate at pH=7 (or 1M Ammonium Chloride at pH=7) with cations (Na, K, Ca & Mg) then determined by ICP OES/ICP MS and reported as Exchangeable Cations. For saline soils, these results can be corrected for water soluble cations and reported as Exchangeable cations in meq/100g or soil can be pre-treated (aqueous ethanol/aqueous glycerol) prior to extraction. Cation Exchange Capacity (CEC) is the sum of the exchangeable cations in meq/100g.
AN122	The Exchangeable Sodium Percentage (ESP) is calculated as the exchangeable sodium divided by the CEC (all in meq/100g) times 100. ESP can be used to categorise the sodicity of the soil as below: ESP < 6% non-sodic ESP 6-15% sodic ESP >15% strongly sodic Method is referenced to Rayment and Lyons, 2011, sections 15D3 and 15N1.-
AN311(Perth)/AN312	Mercury by Cold Vapour AAS in Waters: Mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500.
AN312	Mercury by Cold Vapour AAS in Soils: After digestion with nitric acid, hydrogen peroxide and hydrochloric acid, mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500
AN318	Determination of elements at trace level in waters by ICP-MS technique,, referenced to USEPA 6020B and USEPA 200.8 (5.4).
AN403	Total Recoverable Hydrocarbons: Determination of Hydrocarbons by gas chromatography after a solvent extraction. Detection is by flame ionisation detector (FID) that produces an electronic signal in proportion to the combustible matter passing through it. Total Recoverable Hydrocarbons (TRH) are routinely reported as four alkane groupings based on the carbon chain length of the compounds: C6-C9, C10-C14, C15-C28 and C29-C36 and in recognition of the NEPM 1999 (2013), >C10-C16 (F2), >C16-C34 (F3) and >C34-C40 (F4). F2 is reported directly and also corrected by subtracting Naphthalene (from VOC method AN433) where available.
AN403	Additionally, the volatile C6-C9 fraction may be determined by a purge and trap technique and GC/MS because of the potential for volatiles loss. Total Recoverable Hydrocarbons - Silica (TRH-Si) follows the same method of analysis after silica gel cleanup of the solvent extract. Aliphatic/Aromatic Speciation follows the same method of analysis after fractionation of the solvent extract over silica with differential polarity of the eluent solvents.
AN403	The GC/FID method is not well suited to the analysis of refined high boiling point materials (ie lubricating oils or greases) but is particularly suited for measuring diesel, kerosene and petrol if care to control volatility is taken. This method will detect naturally occurring hydrocarbons, lipids, animal fats, phenols and PAHs if they are present at sufficient levels, dependent on the use of specific cleanup/fractionation techniques. Reference USEPA 3510B, 8015B.
AN420	(SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols (etc) in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).

AN420	SVOC Compounds: Semi-Volatile Organic Compounds (SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).
AN433	VOCs and C6-C9 Hydrocarbons by GC-MS P&T: VOC`s are volatile organic compounds. The sample is presented to a gas chromatograph via a purge and trap (P&T) concentrator and autosampler and is detected with a Mass Spectrometer (MSD). Solid samples are initially extracted with methanol whilst liquid samples are processed directly. References: USEPA 5030B, 8020A, 8260.
MA-1523	This method covers the analysis of per- and polyfluoroalkyl substances (PFAS) in aqueous, solid and biosolid samples and solvent extracts, determined as the total of linear and branched isomers. After spiking with isotopically labelled quantification surrogates and clean-up via SPE cartridges sample extracts are analysed by liquid chromatography/mass spectrometry (LC-MS/MS). PFAS concentrations are determined by isotope dilution quantification.

FOOTNOTES

*	NATA accreditation does not cover the performance of this service.	-	Not analysed.	UOM	Unit of Measure.
		NVL	Not validated.	LOR	Limit of Reporting.
**	Indicative data, theoretical holding time exceeded.	IS	Insufficient sample for analysis.	↑↓	Raised/lowered Limit of Reporting.
		LNR	Sample listed, but not received.		
***	Indicates that both * and ** apply.				

Unless it is reported that sampling has been performed by SGS, the samples have been analysed as received.
Solid samples expressed on a dry weight basis.

Where "Total" analyte groups are reported (for example, Total PAHs, Total OC Pesticides) the total will be calculated as the sum of the individual analytes, with those analytes that are reported as <LOR being assumed to be zero. The summed (Total) limit of reporting is calculated by summing the individual analyte LORs and dividing by two. For example, where 16 individual analytes are being summed and each has an LOR of 0.1 mg/kg, the "Totals" LOR will be 1.6 / 2 (0.8 mg/kg). Where only 2 analytes are being summed, the " Total" LOR will be the sum of those two LORs.

Some totals may not appear to add up because the total is rounded after adding up the raw values.

If reported, measurement uncertainty follow the ± sign after the analytical result and is expressed as the expanded uncertainty calculated using a coverage factor of 2, providing a level of confidence of approximately 95%, unless stated otherwise in the comments section of this report.

Results reported for samples tested under test methods with codes starting with ARS-SOP, radionuclide or gross radioactivity concentrations are expressed in becquerel (Bq) per unit of mass or volume or per wipe as stated on the report. Becquerel is the SI unit for activity and equals one nuclear transformation per second.
Note that in terms of units of radioactivity:

a. 1 Bq is equivalent to 27 pCi
b. 37 MBq is equivalent to 1 mCi

For results reported for samples tested under test methods with codes starting with ARS-SOP, less than (<) values indicate the detection limit for each radionuclide or parameter for the measurement system used. The respective detection limits have been calculated in accordance with ISO 11929.

The QC and MU criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: www.sgs.com.au/en-gb/environment-health-and-safety.

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ANALYTICAL REPORT

Accreditation No. 2562

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Project	**P22150-Cardno, Polo Flat Rd, Cooma**	SGS Reference	**CE162054 R0**
Order Number	**SE237144**	Date Received	29 Sep 2022
Samples	62	Date Reported	05 Oct 2022

COMMENTS

Accredited for compliance with ISO/IEC 17025 - Testing. NATA accredited laboratory 2562(3146/19038)

SIGNATORIES



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Operations Manager



Jon DICKER
Manager Northern QLD



Maristela GANZAN
Quality Coordinator

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name CE162054.001 Water 23 Sep 2022 SE237144.001	CE162054.002 Soil 23 Sep 2022 SE237144.002	CE162054.003 Soil 23 Sep 2022 SE237144.003	CE162054.004 Soil 23 Sep 2022 SE237144.004
Moisture Content Method: AN002 Tested: 4/10/2022						
% Moisture	%w/w	1	-	-	-	-
Particle sizing of soils by sieving Method: AN005 Tested: 5/10/2022						
Passing 75µm	%w/w	1	-	-	-	-
Retained 75µm	%w/w	1	-	-	-	-
Particle sizing of soils <75µm by hydrometer Method: AN005 Tested: 5/10/2022						
Clay (<0.002mm)	%w/w	0.1	-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	CE162054.005 Soil 23 Sep 2022 SE237144.005	CE162054.006 Soil 23 Sep 2022 SE237144.006	CE162054.007 Soil 23 Sep 2022 SE237144.007	CE162054.008 Soil 16 Sep 2022 SE237144.008
Moisture Content Method: AN002 Tested: 4/10/2022							
% Moisture	%w/w	1		-	-	-	-
Particle sizing of soils by sieving Method: AN005 Tested: 5/10/2022							
Passing 75µm	%w/w	1		-	-	-	-
Retained 75µm	%w/w	1		-	-	-	-
Particle sizing of soils <75µm by hydrometer Method: AN005 Tested: 5/10/2022							
Clay (<0.002mm)	%w/w	0.1		-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	CE162054.009 Soil 16 Sep 2022 SE237144.009	CE162054.010 Soil 16 Sep 2022 SE237144.010	CE162054.011 Soil 16 Sep 2022 SE237144.011	CE162054.012 Soil 16 Sep 2022 SE237144.012
Moisture Content Method: AN002 Tested: 4/10/2022							
% Moisture	%w/w	1		-	-	-	-
Particle sizing of soils by sieving Method: AN005 Tested: 5/10/2022							
Passing 75µm	%w/w	1		-	-	-	-
Retained 75µm	%w/w	1		-	-	-	-
Particle sizing of soils <75µm by hydrometer Method: AN005 Tested: 5/10/2022							
Clay (<0.002mm)	%w/w	0.1		-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	CE162054.013 Soil 16 Sep 2022 SE237144.013	CE162054.014 Soil 16 Sep 2022 SE237144.014	CE162054.015 Soil 16 Sep 2022 SE237144.015	CE162054.016 Soil 16 Sep 2022 SE237144.016
Moisture Content Method: AN002 Tested: 4/10/2022							
% Moisture	%w/w	1		-	-	-	-
Particle sizing of soils by sieving Method: AN005 Tested: 5/10/2022							
Passing 75µm	%w/w	1		-	-	-	-
Retained 75µm	%w/w	1		-	-	-	-
Particle sizing of soils <75µm by hydrometer Method: AN005 Tested: 5/10/2022							
Clay (<0.002mm)	%w/w	0.1		-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	CE162054.017 Soil 16 Sep 2022 SE237144.017	CE162054.018 Soil 16 Sep 2022 SE237144.018	CE162054.019 Soil 16 Sep 2022 SE237144.019	CE162054.020 Soil 16 Sep 2022 SE237144.020
Moisture Content Method: AN002 Tested: 4/10/2022							
% Moisture	%w/w	1		-	-	-	-
Particle sizing of soils by sieving Method: AN005 Tested: 5/10/2022							
Passing 75µm	%w/w	1		-	-	-	-
Retained 75µm	%w/w	1		-	-	-	-
Particle sizing of soils <75µm by hydrometer Method: AN005 Tested: 5/10/2022							
Clay (<0.002mm)	%w/w	0.1		-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name CE162054.021 Soil 15 Sep 2022 SE237144.021	CE162054.022 Soil 15 Sep 2022 SE237144.022	CE162054.023 Soil 15 Sep 2022 SE237144.023	CE162054.024 Soil 15 Sep 2022 SE237144.024
Moisture Content Method: AN002 Tested: 4/10/2022						
% Moisture	%w/w	1	-	-	-	-
Particle sizing of soils by sieving Method: AN005 Tested: 5/10/2022						
Passing 75µm	%w/w	1	-	-	-	-
Retained 75µm	%w/w	1	-	-	-	-
Particle sizing of soils <75µm by hydrometer Method: AN005 Tested: 5/10/2022						
Clay (<0.002mm)	%w/w	0.1	-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name CE162054.025 Soil 15 Sep 2022 SE237144.025	CE162054.026 Soil 15 Sep 2022 SE237144.026	CE162054.027 Soil 15 Sep 2022 SE237144.027	CE162054.028 Soil 15 Sep 2022 SE237144.028
Moisture Content Method: AN002 Tested: 30/9/2022						
% Moisture	%w/w	1	**23**	-	-	-
Particle sizing of soils by sieving Method: AN005 Tested: 5/10/2022						
Passing 75µm	%w/w	1	**79**	-	-	-
Retained 75µm	%w/w	1	**21**	-	-	-
Particle sizing of soils <75µm by hydrometer Method: AN005 Tested: 5/10/2022						
Clay (<0.002mm)	%w/w	0.1	**18**	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	CE162054.029 Soil 15 Sep 2022 SE237144.029	CE162054.030 Soil 15 Sep 2022 SE237144.030	CE162054.031 Soil 15 Sep 2022 SE237144.031	CE162054.032 Soil 15 Sep 2022 SE237144.032
Moisture Content Method: AN002 Tested: 4/10/2022							
% Moisture	%w/w	1		-	-	-	-
Particle sizing of soils by sieving Method: AN005 Tested: 5/10/2022							
Passing 75µm	%w/w	1		-	-	-	-
Retained 75µm	%w/w	1		-	-	-	-
Particle sizing of soils <75µm by hydrometer Method: AN005 Tested: 5/10/2022							
Clay (<0.002mm)	%w/w	0.1		-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	CE162054.033 Soil 15 Sep 2022 SE237144.033	CE162054.034 Soil 15 Sep 2022 SE237144.034	CE162054.035 Soil 15 Sep 2022 SE237144.035	CE162054.036 Soil 15 Sep 2022 SE237144.036
Moisture Content Method: AN002 Tested: 4/10/2022							
% Moisture	%w/w	1		-	-	-	-
Particle sizing of soils by sieving Method: AN005 Tested: 5/10/2022							
Passing 75µm	%w/w	1		-	-	-	-
Retained 75µm	%w/w	1		-	-	-	-
Particle sizing of soils <75µm by hydrometer Method: AN005 Tested: 5/10/2022							
Clay (<0.002mm)	%w/w	0.1		-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	CE162054.037 Soil 15 Sep 2022 SE237144.037	CE162054.038 Soil 15 Sep 2022 SE237144.038	CE162054.039 Soil 15 Sep 2022 SE237144.039	CE162054.040 Soil 15 Sep 2022 SE237144.040
Moisture Content Method: AN002 Tested: 4/10/2022							
% Moisture	%w/w	1		-	-	-	-
Particle sizing of soils by sieving Method: AN005 Tested: 5/10/2022							
Passing 75µm	%w/w	1		-	-	-	-
Retained 75µm	%w/w	1		-	-	-	-
Particle sizing of soils <75µm by hydrometer Method: AN005 Tested: 5/10/2022							
Clay (<0.002mm)	%w/w	0.1		-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name CE162054.041 Soil 15 Sep 2022 SE237144.041	CE162054.042 Soil 15 Sep 2022 SE237144.042	CE162054.043 Soil 15 Sep 2022 SE237144.043	CE162054.044 Soil 15 Sep 2022 SE237144.044
Moisture Content Method: AN002 Tested: 4/10/2022						
% Moisture	%w/w	1	-	-	-	-
Particle sizing of soils by sieving Method: AN005 Tested: 5/10/2022						
Passing 75µm	%w/w	1	-	-	-	-
Retained 75µm	%w/w	1	-	-	-	-
Particle sizing of soils <75µm by hydrometer Method: AN005 Tested: 5/10/2022						
Clay (<0.002mm)	%w/w	0.1	-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	CE162054.045 Soil 15 Sep 2022 SE237144.045	CE162054.046 Soil 15 Sep 2022 SE237144.046	CE162054.047 Soil 15 Sep 2022 SE237144.047	CE162054.048 Soil 15 Sep 2022 SE237144.048
Moisture Content Method: AN002 Tested: 4/10/2022							
% Moisture	%w/w	1		-	-	-	-
Particle sizing of soils by sieving Method: AN005 Tested: 5/10/2022							
Passing 75µm	%w/w	1		-	-	-	-
Retained 75µm	%w/w	1		-	-	-	-
Particle sizing of soils <75µm by hydrometer Method: AN005 Tested: 5/10/2022							
Clay (<0.002mm)	%w/w	0.1		-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name CE162054.049 Soil 15 Sep 2022 SE237144.049	CE162054.050 Soil 15 Sep 2022 SE237144.050	CE162054.051 Soil 15 Sep 2022 SE237144.051	CE162054.052 Soil 15 Sep 2022 SE237144.052
Moisture Content Method: AN002 Tested: 30/9/2022						
% Moisture	%w/w	1	**9.5**	-	-	-
Particle sizing of soils by sieving Method: AN005 Tested: 5/10/2022						
Passing 75µm	%w/w	1	**24**	-	-	-
Retained 75µm	%w/w	1	**76**	-	-	-
Particle sizing of soils <75µm by hydrometer Method: AN005 Tested: 5/10/2022						
Clay (<0.002mm)	%w/w	0.1	**4.0**	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	CE162054.053 Soil 15 Sep 2022 SE237144.053	CE162054.054 Soil 15 Sep 2022 SE237144.054	CE162054.055 Soil 15 Sep 2022 SE237144.055	CE162054.056 Soil 15 Sep 2022 SE237144.056
Moisture Content Method: AN002 Tested: 4/10/2022							
% Moisture	%w/w	1		-	-	-	-
Particle sizing of soils by sieving Method: AN005 Tested: 5/10/2022							
Passing 75µm	%w/w	1		-	-	-	-
Retained 75µm	%w/w	1		-	-	-	-
Particle sizing of soils <75µm by hydrometer Method: AN005 Tested: 5/10/2022							
Clay (<0.002mm)	%w/w	0.1		-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name CE162054.057 Soil 16 Sep 2022 SE237144.057	CE162054.058 Soil 16 Sep 2022 SE237144.058	CE162054.059 Soil 14 Sep 2022 SE237144.059	CE162054.060 Soil 15 Sep 2022 SE237144.060
Moisture Content Method: AN002 Tested: 4/10/2022						
% Moisture	%w/w	1	-	-	-	-
Particle sizing of soils by sieving Method: AN005 Tested: 5/10/2022						
Passing 75µm	%w/w	1	-	-	-	-
Retained 75µm	%w/w	1	-	-	-	-
Particle sizing of soils <75µm by hydrometer Method: AN005 Tested: 5/10/2022						
Clay (<0.002mm)	%w/w	0.1	-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name CE162054.061 Soil 15 Sep 2022 SE237144.061	CE162054.062 Soil 16 Sep 2022 SE237144.062
Moisture Content Method: AN002 Tested: 4/10/2022				
% Moisture	%w/w	1	-	-
Particle sizing of soils by sieving Method: AN005 Tested: 5/10/2022				
Passing 75µm	%w/w	1	-	-
Retained 75µm	%w/w	1	-	-
Particle sizing of soils <75µm by hydrometer Method: AN005 Tested: 5/10/2022				
Clay (<0.002mm)	%w/w	0.1	-	-

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula : *the absolute difference of the two results divided by the average of the two results as a percentage.* Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

No QC samples were reported for this job.

METHOD	METHODOLOGY SUMMARY
AN002	The test is carried out by drying (at either 40°C or 105°C) a known mass of sample in a weighed evaporating basin. After fully dry the sample is re-weighed. Samples such as sludge and sediment having high percentages of moisture will take some time in a drying oven for complete removal of water.
AN005	The particle size distribution of a soil is determined by wet sieving, using a maximum of 900 mL of deionised water to sieve all fractions down to 75 µm. Referenced to AS1289.3.6.1 and AS1141.11.
AN005	Following wet sieving of the sample,(particles smaller than 75 µm) a dispersing solution is added and a hydrometer is used to measure sedimentation. Soil density is determined and the percentage of each size fraction calculated. Referenced to AS1289.3.6.3.

FOOTNOTES

IS	Insufficient sample for analysis.	LOR	Limit of Reporting
LNR	Sample listed, but not received.	↑↓	Raised or Lowered Limit of Reporting
*	NATA accreditation does not cover the performance of this service.	QFH	QC result is above the upper tolerance
		QFL	QC result is below the lower tolerance
**	Indicative data, theoretical holding time exceeded.	-	The sample was not analysed for this analyte
***	Indicates that both * and ** apply.	NVL	Not Validated

Unless it is reported that sampling has been performed by SGS, the samples have been analysed as received.
Solid samples expressed on a dry weight basis.

Where "Total" analyte groups are reported (for example, Total PAHs, Total OC Pesticides) the total will be calculated as the sum of the individual analytes, with those analytes that are reported as <LOR being assumed to be zero. The summed (Total) limit of reporting is calcuated by summing the individual analyte LORs and dividing by two. For example, where 16 individual analytes are being summed and each has an LOR of 0.1 mg/kg, the "Totals" LOR will be 1.6 / 2 (0.8 mg/kg). Where only 2 analytes are being summed, the " Total" LOR will be the sum of those two LORs.

Some totals may not appear to add up because the total is rounded after adding up the raw values.

If reported, measurement uncertainty follow the ± sign after the analytical result and is expressed as the expanded uncertainty calculated using a coverage factor of 2, providing a level of confidence of approximately 95%, unless stated otherwise in the comments section of this report.

Results reported for samples tested under test methods with codes starting with ARS-SOP, radionuclide or gross radioactivity concentrations are expressed in becquerel (Bq) per unit of mass or volume or per wipe as stated on the report. Becquerel is the SI unit for activity and equals one nuclear transformation per second.
Note that in terms of units of radioactivity:

a. 1 Bq is equivalent to 27 pCi
b. 37 MBq is equivalent to 1 mCi

For results reported for samples tested under test methods with codes starting with ARS-SOP, less than (<) values indicate the detection limit for each radionuclide or parameter for the measurement system used. The respective detection limits have been calculated in accordance with ISO 11929.

The QC and MU criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: www.sgs.com.au/en-gb/environment-health-and-safety.

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ANALYTICAL REPORT

Accreditation No. 2562

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Project	**P22150-Cardno, Polo Flat Rd, Cooma**
Order Number	**SE237144**
Samples	62

LABORATORY DETAILS

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SGS Reference	**ME329643 R0**
Date Received	30 Sep 2022
Date Reported	05 Oct 2022

COMMENTS

Accredited for compliance with ISO/IEC 17025 - Testing. NATA accredited laboratory 2562(14420).

SIGNATORIES



Andrew WRIGHT
Senior Chemist

Parameter	Units	LOR	Sample Number ME329643.001 Sample Matrix Water Sample Date 23 Sep 2022 Sample Name SE237144.001	ME329643.002 Soil 23 Sep 2022 SE237144.002	ME329643.003 Soil 23 Sep 2022 SE237144.003	ME329643.004 Soil 23 Sep 2022 SE237144.004
Per- and Polyfluoroalkyl Substances (PFAS) in Solid Samples Method: MA-1523 Tested: 5/10/2022						
Perfluorobutanoic acid (PFBA)	mg/kg	0.0016	-	-	-	-
Perfluoropentanoic acid (PFPeA)	mg/kg	0.0016	-	-	-	-
Perfluorohexanoic acid (PFHxA)	mg/kg	0.0016	-	-	-	-
Perfluoroheptanoic acid (PFHpA)	mg/kg	0.0016	-	-	-	-
Perfluorooctanoic Acid (PFOA)	mg/kg	0.0008	-	-	-	-
Perfluorononanoic acid (PFNA)	mg/kg	0.0016	-	-	-	-
Perfluorodecanoic acid (PFDA)	mg/kg	0.0016	-	-	-	-
Perfluoroundecanoic acid (PFUnA)	mg/kg	0.0016	-	-	-	-
Perfluorododecanoic acid (PFDoA)	mg/kg	0.0016	-	-	-	-
Perfluorotridecanoic acid (PFTrDA)	mg/kg	0.0016	-	-	-	-
Perfluorotetradecanoic acid (PFTeDA)	mg/kg	0.0016	-	-	-	-
Perfluorohexadecanoic acid (PFHxDA)	mg/kg	0.0032	-	-	-	-
Perfluorobutane sulfonate (PFBS)	mg/kg	0.0016	-	-	-	-
Perfluoropentane sulfonate (PFPeS)	mg/kg	0.0016	-	-	-	-
Perfluorohexane sulfonate (PFHxS)	mg/kg	0.0016	-	-	-	-
Perfluoroheptane sulfonate (PFHpS)	mg/kg	0.0016	-	-	-	-
Perfluorooctane sulfonate (PFOS)	mg/kg	0.0016	-	-	-	-
Sum PFOS and PFHXS	mg/kg	0.0016	-	-	-	-
Perfluorononane sulfonate (PFNS)	mg/kg	0.0016	-	-	-	-
Perfluorodecane sulfonate (PFDS)	mg/kg	0.0016	-	-	-	-
Perfluorododecane sulfonate (PFDoS)	mg/kg	0.0016	-	-	-	-
1H,1H,2H,2H-Perfluorohexane sulfonate (4:2) (4:2 FTS)	mg/kg	0.0016	-	-	-	-
1H,1H,2H,2H-Perfluorooctane sulfonate (6:2) (6:2 FTS)	mg/kg	0.0016	-	-	-	-
1H,1H,2H,2H-Perfluorodecane sulfonate (8:2) (8:2 FTS)	mg/kg	0.0016	-	-	-	-
Perfluorooctane sulfonamide (PFOSA)	mg/kg	0.0016	-	-	-	-
N-Methylperfluorooctane sulfonamide (N-MeFOSA)	mg/kg	0.008	-	-	-	-
N-Ethylperfluorooctane sulfonamide (N-EtFOSA)	mg/kg	0.008	-	-	-	-
2-(N-Methylperfluorooctane sulfonamido)-ethanol	mg/kg	0.016	-	-	-	-
2-(N-Ethylperfluorooctane sulfonamido)-ethanol	mg/kg	0.016	-	-	-	-
N-Methylperfluorooctanesulfonamidoacetic acid	mg/kg	0.008	-	-	-	-
N-Ethylperfluorooctanesulfonamidoacetic Acid	mg/kg	0.008	-	-	-	-
Total of PFAS (n=30)	mg/kg	0.08	-	-	-	-
(13C4-PFBA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C5-PFPeA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C5-PFHxA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C4-PFHpA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C4_PFOA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C9-PFNA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C6-PFDA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C7-PFUdA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C2-PFDoA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C2_PFTeDA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C2-PFHxDA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C3-PFBS) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C3-PFHxS) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C8-PFOS) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C2-4:2 FTS) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C2-6:2 FTS) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C2-8:2 FTS) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C8-PFOSA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(D3-N-MeFOSA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(D5-N-EtFOSA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(D7-N-MeFOSE) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(D9-N-EtFOSE) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(D3-N-MeFOSAA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(D5-N-EtFOSAA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-

Moisture Content Method: AN002 Tested: 4/10/2022

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name ME329643.001 Water 23 Sep 2022 SE237144.001	ME329643.002 Soil 23 Sep 2022 SE237144.002	ME329643.003 Soil 23 Sep 2022 SE237144.003	ME329643.004 Soil 23 Sep 2022 SE237144.004
Moisture Content Method: AN002 Tested: 4/10/2022 (continued)						
% Moisture	%w/w	1	-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	ME329643.005 Soil 23 Sep 2022 SE237144.005	ME329643.006 Soil 23 Sep 2022 SE237144.006	ME329643.007 Soil 23 Sep 2022 SE237144.007	ME329643.008 Soil 16 Sep 2022 SE237144.008
Per- and Polyfluoroalkyl Substances (PFAS) in Solid Samples	**Method: MA-1523**	**Tested: 5/10/2022**					
Perfluorobutanoic acid (PFBA)	mg/kg	0.0016		-	-	<0.0016	<0.0016
Perfluoropentanoic acid (PFPeA)	mg/kg	0.0016		-	-	<0.0016	<0.0016
Perfluorohexanoic acid (PFHxA)	mg/kg	0.0016		-	-	<0.0016	<0.0016
Perfluoroheptanoic acid (PFHpA)	mg/kg	0.0016		-	-	<0.0016	<0.0016
Perfluorooctanoic Acid (PFOA)	mg/kg	0.0008		-	-	<0.0008	<0.0008
Perfluorononanoic acid (PFNA)	mg/kg	0.0016		-	-	<0.0016	<0.0016
Perfluorodecanoic acid (PFDA)	mg/kg	0.0016		-	-	<0.0016	<0.0016
Perfluoroundecanoic acid (PFUnA)	mg/kg	0.0016		-	-	<0.0016	<0.0016
Perfluorododecanoic acid (PFDoA)	mg/kg	0.0016		-	-	<0.0016	<0.0016
Perfluorotridecanoic acid (PFTrDA)	mg/kg	0.0016		-	-	<0.0016	<0.0016
Perfluorotetradecanoic acid (PFTeDA)	mg/kg	0.0016		-	-	<0.0016	<0.0016
Perfluorohexadecanoic acid (PFHxDA)	mg/kg	0.0032		-	-	<0.0032	<0.0032
Perfluorobutane sulfonate (PFBS)	mg/kg	0.0016		-	-	<0.0016	<0.0016
Perfluoropentane sulfonate (PFPeS)	mg/kg	0.0016		-	-	<0.0016	<0.0016
Perfluorohexane sulfonate (PFHxS)	mg/kg	0.0016		-	-	<0.0016	<0.0016
Perfluoroheptane sulfonate (PFHpS)	mg/kg	0.0016		-	-	<0.0016	<0.0016
Perfluorooctane sulfonate (PFOS)	mg/kg	0.0016		-	-	<0.0016	<0.0016
Sum PFOS and PFHXS	mg/kg	0.0016		-	-	<0.0016	<0.0016
Perfluorononane sulfonate (PFNS)	mg/kg	0.0016		-	-	<0.0016	<0.0016
Perfluorodecane sulfonate (PFDS)	mg/kg	0.0016		-	-	<0.0016	<0.0016
Perfluorododecane sulfonate (PFDoS)	mg/kg	0.0016		-	-	<0.0016	<0.0016
1H,1H,2H,2H-Perfluorohexane sulfonate (4:2) (4:2 FTS)	mg/kg	0.0016		-	-	<0.0016	<0.0016
1H,1H,2H,2H-Perfluorooctane sulfonate (6:2) (6:2 FTS)	mg/kg	0.0016		-	-	<0.0016	<0.0016
1H,1H,2H,2H-Perfluorodecane sulfonate (8:2) (8:2 FTS)	mg/kg	0.0016		-	-	<0.0016	<0.0016
Perfluorooctane sulfonamide (PFOSA)	mg/kg	0.0016		-	-	<0.0016	<0.0016
N-Methylperfluorooctane sulfonamide (N-MeFOSA)	mg/kg	0.008		-	-	<0.008	<0.008
N-Ethylperfluorooctane sulfonamide (N-EtFOSA)	mg/kg	0.008		-	-	<0.008	<0.008
2-(N-Methylperfluorooctane sulfonamido)-ethanol	mg/kg	0.016		-	-	<0.016	<0.016
2-(N-Ethylperfluorooctane sulfonamido)-ethanol	mg/kg	0.016		-	-	<0.016	<0.016
N-Methylperfluorooctanesulfonamidoacetic acid	mg/kg	0.008		-	-	<0.008	<0.008
N-Ethylperfluorooctanesulfonamidoacetic Acid	mg/kg	0.008		-	-	<0.008	<0.008
Total of PFAS (n=30)	mg/kg	0.08		-	-	<0.08	<0.08
(13C4-PFBA) Isotopically Labelled Internal Recovery	%	-		-	-	**94**	**91**
(13C5-PFPeA) Isotopically Labelled Internal Recovery	%	-		-	-	**86**	**98**
(13C5-PFHxA) Isotopically Labelled Internal Recovery	%	-		-	-	**116**	**94**
(13C4-PFHpA) Isotopically Labelled Internal Recovery	%	-		-	-	**114**	**93**
(13C4_PFOA) Isotopically Labelled Internal Recovery	%	-		-	-	**109**	**93**
(13C9-PFNA) Isotopically Labelled Internal Recovery	%	-		-	-	**88**	**109**
(13C6-PFDA) Isotopically Labelled Internal Recovery	%	-		-	-	**125**	**74**
(13C7-PFUdA) Isotopically Labelled Internal Recovery	%	-		-	-	**78**	**71**
(13C2-PFDoA) Isotopically Labelled Internal Recovery	%	-		-	-	**63**	**57**
(13C2_PFTeDA) Isotopically Labelled Internal Recovery	%	-		-	-	**30**	**35**
(13C2-PFHxDA) Isotopically Labelled Internal Recovery	%	-		-	-	**57**	**57**
(13C3-PFBS) Isotopically Labelled Internal Recovery	%	-		-	-	**116**	**97**
(13C3-PFHxS) Isotopically Labelled Internal Recovery	%	-		-	-	**88**	**91**
(13C8-PFOS) Isotopically Labelled Internal Recovery	%	-		-	-	**135**	**86**
(13C2-4:2 FTS) Isotopically Labelled Internal Recovery	%	-		-	-	**85**	**59**
(13C2-6:2 FTS) Isotopically Labelled Internal Recovery	%	-		-	-	**56**	**55**
(13C2-8:2 FTS) Isotopically Labelled Internal Recovery	%	-		-	-	**72**	**44**
(13C8-PFOSA) Isotopically Labelled Internal Recovery	%	-		-	-	**130**	**69**
(D3-N-MeFOSA) Isotopically Labelled Internal Recovery	%	-		-	-	**102**	**61**
(D5-N-EtFOSA) Isotopically Labelled Internal Recovery	%	-		-	-	**72**	**45**
(D7-N-MeFOSE) Isotopically Labelled Internal Recovery	%	-		-	-	**97**	**59**
(D9-N-EtFOSE) Isotopically Labelled Internal Recovery	%	-		-	-	**90**	**60**
(D3-N-MeFOSAA) Isotopically Labelled Internal Recovery	%	-		-	-	**88**	**64**
(D5-N-EtFOSAA) Isotopically Labelled Internal Recovery	%	-		-	-	**84**	**74**
Moisture Content	**Method: AN002**	**Tested: 4/10/2022**					

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name ME329643.005 Soil 23 Sep 2022 SE237144.005	ME329643.006 Soil 23 Sep 2022 SE237144.006	ME329643.007 Soil 23 Sep 2022 SE237144.007	ME329643.008 Soil 16 Sep 2022 SE237144.008
Moisture Content Method: AN002 Tested: 3/10/2022 (continued)						
% Moisture	%w/w	1	-	-	**23.3**	**28.8**

Parameter	Units	LOR	Sample Number ME329643.009 Sample Matrix Soil Sample Date 16 Sep 2022 Sample Name SE237144.009	ME329643.010 Soil 16 Sep 2022 SE237144.010	ME329643.011 Soil 16 Sep 2022 SE237144.011	ME329643.012 Soil 16 Sep 2022 SE237144.012
Per- and Polyfluoroalkyl Substances (PFAS) in Solid Samples Method: MA-1523 Tested: 3/10/2022						
Perfluorobutanoic acid (PFBA)	mg/kg	0.0016	<0.0016	<0.0016	-	-
Perfluoropentanoic acid (PFPeA)	mg/kg	0.0016	<0.0016	<0.0016	-	-
Perfluorohexanoic acid (PFHxA)	mg/kg	0.0016	<0.0016	<0.0016	-	-
Perfluoroheptanoic acid (PFHpA)	mg/kg	0.0016	<0.0016	<0.0016	-	-
Perfluorooctanoic Acid (PFOA)	mg/kg	0.0008	<0.0008	<0.0008	-	-
Perfluorononanoic acid (PFNA)	mg/kg	0.0016	<0.0016	<0.0016	-	-
Perfluorodecanoic acid (PFDA)	mg/kg	0.0016	<0.0016	<0.0016	-	-
Perfluoroundecanoic acid (PFUnA)	mg/kg	0.0016	<0.0016	<0.0016	-	-
Perfluorododecanoic acid (PFDoA)	mg/kg	0.0016	<0.0016	<0.0016	-	-
Perfluorotridecanoic acid (PFTrDA)	mg/kg	0.0016	<0.0016	<0.0016	-	-
Perfluorotetradecanoic acid (PFTeDA)	mg/kg	0.0016	<0.0016	<0.0016	-	-
Perfluorohexadecanoic acid (PFHxDA)	mg/kg	0.0032	<0.0032	<0.0032	-	-
Perfluorobutane sulfonate (PFBS)	mg/kg	0.0016	<0.0016	<0.0016	-	-
Perfluoropentane sulfonate (PFPeS)	mg/kg	0.0016	<0.0016	<0.0016	-	-
Perfluorohexane sulfonate (PFHxS)	mg/kg	0.0016	<0.0016	<0.0016	-	-
Perfluoroheptane sulfonate (PFHpS)	mg/kg	0.0016	<0.0016	<0.0016	-	-
Perfluorooctane sulfonate (PFOS)	mg/kg	0.0016	<0.0016	<0.0016	-	-
Sum PFOS and PFHXS	mg/kg	0.0016	<0.0016	<0.0016	-	-
Perfluorononane sulfonate (PFNS)	mg/kg	0.0016	<0.0016	<0.0016	-	-
Perfluorodecane sulfonate (PFDS)	mg/kg	0.0016	<0.0016	<0.0016	-	-
Perfluorododecane sulfonate (PFDoS)	mg/kg	0.0016	<0.0016	<0.0016	-	-
1H,1H,2H,2H-Perfluorohexane sulfonate (4:2) (4:2 FTS)	mg/kg	0.0016	<0.0016	<0.0016	-	-
1H,1H,2H,2H-Perfluorooctane sulfonate (6:2) (6:2 FTS)	mg/kg	0.0016	<0.0016	<0.0016	-	-
1H,1H,2H,2H-Perfluorodecane sulfonate (8:2) (8:2 FTS)	mg/kg	0.0016	<0.0016	<0.0016	-	-
Perfluorooctane sulfonamide (PFOSA)	mg/kg	0.0016	<0.0016	<0.0016	-	-
N-Methylperfluorooctane sulfonamide (N-MeFOSA)	mg/kg	0.008	<0.008	<0.008	-	-
N-Ethylperfluorooctane sulfonamide (N-EtFOSA)	mg/kg	0.008	<0.008	<0.008	-	-
2-(N-Methylperfluorooctane sulfonamido)-ethanol	mg/kg	0.016	<0.016	<0.016	-	-
2-(N-Ethylperfluorooctane sulfonamido)-ethanol	mg/kg	0.016	<0.016	<0.016	-	-
N-Methylperfluorooctanesulfonamidoacetic acid	mg/kg	0.008	<0.008	<0.008	-	-
N-Ethylperfluorooctanesulfonamidoacetic Acid	mg/kg	0.008	<0.008	<0.008	-	-
Total of PFAS (n=30)	mg/kg	0.08	<0.08	<0.08	-	-
(13C4-PFBA) Isotopically Labelled Internal Recovery	%	-	**95**	**93**	-	-
(13C5-PFPeA) Isotopically Labelled Internal Recovery	%	-	**102**	**102**	-	-
(13C5-PFHxA) Isotopically Labelled Internal Recovery	%	-	**99**	**107**	-	-
(13C4-PFHpA) Isotopically Labelled Internal Recovery	%	-	**102**	**101**	-	-
(13C4_PFOA) Isotopically Labelled Internal Recovery	%	-	**99**	**91**	-	-
(13C9-PFNA) Isotopically Labelled Internal Recovery	%	-	**89**	**85**	-	-
(13C6-PFDA) Isotopically Labelled Internal Recovery	%	-	**93**	**78**	-	-
(13C7-PFUdA) Isotopically Labelled Internal Recovery	%	-	**75**	**67**	-	-
(13C2-PFDoA) Isotopically Labelled Internal Recovery	%	-	**63**	**67**	-	-
(13C2_PFTeDA) Isotopically Labelled Internal Recovery	%	-	**34**	**41**	-	-
(13C2-PFHxDA) Isotopically Labelled Internal Recovery	%	-	**26**	**41**	-	-
(13C3-PFBS) Isotopically Labelled Internal Recovery	%	-	**96**	**107**	-	-
(13C3-PFHxS) Isotopically Labelled Internal Recovery	%	-	**85**	**101**	-	-
(13C8-PFOS) Isotopically Labelled Internal Recovery	%	-	**78**	**100**	-	-
(13C2-4:2 FTS) Isotopically Labelled Internal Recovery	%	-	**57**	**61**	-	-
(13C2-6:2 FTS) Isotopically Labelled Internal Recovery	%	-	**48**	**52**	-	-
(13C2-8:2 FTS) Isotopically Labelled Internal Recovery	%	-	**47**	**55**	-	-
(13C8-PFOSA) Isotopically Labelled Internal Recovery	%	-	**64**	**77**	-	-
(D3-N-MeFOSA) Isotopically Labelled Internal Recovery	%	-	**44**	**57**	-	-
(D5-N-EtFOSA) Isotopically Labelled Internal Recovery	%	-	**31**	**50**	-	-
(D7-N-MeFOSE) Isotopically Labelled Internal Recovery	%	-	**37**	**58**	-	-
(D9-N-EtFOSE) Isotopically Labelled Internal Recovery	%	-	**39**	**51**	-	-
(D3-N-MeFOSAA) Isotopically Labelled Internal Recovery	%	-	**51**	**62**	-	-
(D5-N-EtFOSAA) Isotopically Labelled Internal Recovery	%	-	**50**	**74**	-	-

Moisture Content Method: AN002 Tested: 3/10/2022

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	ME329643.009 Soil 16 Sep 2022 SE237144.009	ME329643.010 Soil 16 Sep 2022 SE237144.010	ME329643.011 Soil 16 Sep 2022 SE237144.011	ME329643.012 Soil 16 Sep 2022 SE237144.012
Moisture Content Method: AN002 Tested: 4/10/2022 (continued)							
% Moisture	%w/w	1		**28.3**	**20.8**	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name ME329643.013 Soil 16 Sep 2022 SE237144.013	ME329643.014 Soil 16 Sep 2022 SE237144.014	ME329643.015 Soil 16 Sep 2022 SE237144.015	ME329643.016 Soil 16 Sep 2022 SE237144.016
Per- and Polyfluoroalkyl Substances (PFAS) in Solid Samples Method: MA-1523 Tested: 5/10/2022						
Perfluorobutanoic acid (PFBA)	mg/kg	0.0016	-	-	-	-
Perfluoropentanoic acid (PFPeA)	mg/kg	0.0016	-	-	-	-
Perfluorohexanoic acid (PFHxA)	mg/kg	0.0016	-	-	-	-
Perfluoroheptanoic acid (PFHpA)	mg/kg	0.0016	-	-	-	-
Perfluorooctanoic Acid (PFOA)	mg/kg	0.0008	-	-	-	-
Perfluorononanoic acid (PFNA)	mg/kg	0.0016	-	-	-	-
Perfluorodecanoic acid (PFDA)	mg/kg	0.0016	-	-	-	-
Perfluoroundecanoic acid (PFUnA)	mg/kg	0.0016	-	-	-	-
Perfluorododecanoic acid (PFDoA)	mg/kg	0.0016	-	-	-	-
Perfluorotridecanoic acid (PFTrDA)	mg/kg	0.0016	-	-	-	-
Perfluorotetradecanoic acid (PFTeDA)	mg/kg	0.0016	-	-	-	-
Perfluorohexadecanoic acid (PFHxDA)	mg/kg	0.0032	-	-	-	-
Perfluorobutane sulfonate (PFBS)	mg/kg	0.0016	-	-	-	-
Perfluoropentane sulfonate (PFPeS)	mg/kg	0.0016	-	-	-	-
Perfluorohexane sulfonate (PFHxS)	mg/kg	0.0016	-	-	-	-
Perfluoroheptane sulfonate (PFHpS)	mg/kg	0.0016	-	-	-	-
Perfluorooctane sulfonate (PFOS)	mg/kg	0.0016	-	-	-	-
Sum PFOS and PFHXS	mg/kg	0.0016	-	-	-	-
Perfluorononane sulfonate (PFNS)	mg/kg	0.0016	-	-	-	-
Perfluorodecane sulfonate (PFDS)	mg/kg	0.0016	-	-	-	-
Perfluorododecane sulfonate (PFDoS)	mg/kg	0.0016	-	-	-	-
1H,1H,2H,2H-Perfluorohexane sulfonate (4:2) (4:2 FTS)	mg/kg	0.0016	-	-	-	-
1H,1H,2H,2H-Perfluorooctane sulfonate (6:2) (6:2 FTS)	mg/kg	0.0016	-	-	-	-
1H,1H,2H,2H-Perfluorodecane sulfonate (8:2) (8:2 FTS)	mg/kg	0.0016	-	-	-	-
Perfluorooctane sulfonamide (PFOSA)	mg/kg	0.0016	-	-	-	-
N-Methylperfluorooctane sulfonamide (N-MeFOSA)	mg/kg	0.008	-	-	-	-
N-Ethylperfluorooctane sulfonamide (N-EtFOSA)	mg/kg	0.008	-	-	-	-
2-(N-Methylperfluorooctane sulfonamido)-ethanol	mg/kg	0.016	-	-	-	-
2-(N-Ethylperfluorooctane sulfonamido)-ethanol	mg/kg	0.016	-	-	-	-
N-Methylperfluorooctanesulfonamidoacetic acid	mg/kg	0.008	-	-	-	-
N-Ethylperfluorooctanesulfonamidoacetic Acid	mg/kg	0.008	-	-	-	-
Total of PFAS (n=30)	mg/kg	0.08	-	-	-	-
(13C4-PFBA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C5-PFPeA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C5-PFHxA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C4-PFHpA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C4_PFOA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C9-PFNA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C6-PFDA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C7-PFUdA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C2-PFDoA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C2_PFTeDA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C2-PFHxDA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C3-PFBS) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C3-PFHxS) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C8-PFOS) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C2-4:2 FTS) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C2-6:2 FTS) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C2-8:2 FTS) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C8-PFOSA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(D3-N-MeFOSA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(D5-N-EtFOSA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(D7-N-MeFOSE) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(D9-N-EtFOSE) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(D3-N-MeFOSAA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(D5-N-EtFOSAA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-

Moisture Content Method: AN002 Tested: 4/10/2022

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	ME329643.013 Soil 16 Sep 2022 SE237144.013	ME329643.014 Soil 16 Sep 2022 SE237144.014	ME329643.015 Soil 16 Sep 2022 SE237144.015	ME329643.016 Soil 16 Sep 2022 SE237144.016
Moisture Content Method: AN002 Tested: 4/10/2022 (continued)							
% Moisture	%w/w	1		-	-	-	-

Parameter	Units	LOR	Sample Number ME329643.017 Sample Matrix Soil Sample Date 16 Sep 2022 Sample Name SE237144.017	ME329643.018 Soil 16 Sep 2022 SE237144.018	ME329643.019 Soil 16 Sep 2022 SE237144.019	ME329643.020 Soil 16 Sep 2022 SE237144.020
Per- and Polyfluoroalkyl Substances (PFAS) in Solid Samples Method: MA-1523 Tested: 5/10/2022						
Perfluorobutanoic acid (PFBA)	mg/kg	0.0016	-	-	-	-
Perfluoropentanoic acid (PFPeA)	mg/kg	0.0016	-	-	-	-
Perfluorohexanoic acid (PFHxA)	mg/kg	0.0016	-	-	-	-
Perfluoroheptanoic acid (PFHpA)	mg/kg	0.0016	-	-	-	-
Perfluorooctanoic Acid (PFOA)	mg/kg	0.0008	-	-	-	-
Perfluorononanoic acid (PFNA)	mg/kg	0.0016	-	-	-	-
Perfluorodecanoic acid (PFDA)	mg/kg	0.0016	-	-	-	-
Perfluoroundecanoic acid (PFUnA)	mg/kg	0.0016	-	-	-	-
Perfluorododecanoic acid (PFDoA)	mg/kg	0.0016	-	-	-	-
Perfluorotridecanoic acid (PFTrDA)	mg/kg	0.0016	-	-	-	-
Perfluorotetradecanoic acid (PFTeDA)	mg/kg	0.0016	-	-	-	-
Perfluorohexadecanoic acid (PFHxDA)	mg/kg	0.0032	-	-	-	-
Perfluorobutane sulfonate (PFBS)	mg/kg	0.0016	-	-	-	-
Perfluoropentane sulfonate (PFPeS)	mg/kg	0.0016	-	-	-	-
Perfluorohexane sulfonate (PFHxS)	mg/kg	0.0016	-	-	-	-
Perfluoroheptane sulfonate (PFHpS)	mg/kg	0.0016	-	-	-	-
Perfluorooctane sulfonate (PFOS)	mg/kg	0.0016	-	-	-	-
Sum PFOS and PFHXS	mg/kg	0.0016	-	-	-	-
Perfluorononane sulfonate (PFNS)	mg/kg	0.0016	-	-	-	-
Perfluorodecane sulfonate (PFDS)	mg/kg	0.0016	-	-	-	-
Perfluorododecane sulfonate (PFDoS)	mg/kg	0.0016	-	-	-	-
1H,1H,2H,2H-Perfluorohexane sulfonate (4:2) (4:2 FTS)	mg/kg	0.0016	-	-	-	-
1H,1H,2H,2H-Perfluorooctane sulfonate (6:2) (6:2 FTS)	mg/kg	0.0016	-	-	-	-
1H,1H,2H,2H-Perfluorodecane sulfonate (8:2) (8:2 FTS)	mg/kg	0.0016	-	-	-	-
Perfluorooctane sulfonamide (PFOSA)	mg/kg	0.0016	-	-	-	-
N-Methylperfluorooctane sulfonamide (N-MeFOSA)	mg/kg	0.008	-	-	-	-
N-Ethylperfluorooctane sulfonamide (N-EtFOSA)	mg/kg	0.008	-	-	-	-
2-(N-Methylperfluorooctane sulfonamido)-ethanol	mg/kg	0.016	-	-	-	-
2-(N-Ethylperfluorooctane sulfonamido)-ethanol	mg/kg	0.016	-	-	-	-
N-Methylperfluorooctanesulfonamidoacetic acid	mg/kg	0.008	-	-	-	-
N-Ethylperfluorooctanesulfonamidoacetic Acid	mg/kg	0.008	-	-	-	-
Total of PFAS (n=30)	mg/kg	0.08	-	-	-	-
(13C4-PFBA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C5-PFPeA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C5-PFHxA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C4-PFHpA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C4_PFOA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C9-PFNA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C6-PFDA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C7-PFUdA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C2-PFDoA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C2_PFTeDA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C2-PFHxDA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C3-PFBS) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C3-PFHxS) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C8-PFOS) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C2-4:2 FTS) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C2-6:2 FTS) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C2-8:2 FTS) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C8-PFOSA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(D3-N-MeFOSA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(D5-N-EtFOSA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(D7-N-MeFOSE) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(D9-N-EtFOSE) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(D3-N-MeFOSAA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(D5-N-EtFOSAA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-

Moisture Content Method: AN002 Tested: 4/10/2022

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name ME329643.017 Soil 16 Sep 2022 SE237144.017	ME329643.018 Soil 16 Sep 2022 SE237144.018	ME329643.019 Soil 16 Sep 2022 SE237144.019	ME329643.020 Soil 16 Sep 2022 SE237144.020
Moisture Content Method: AN002 Tested: 4/10/2022 (continued)						
% Moisture	%w/w	1	-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name ME329643.021 Soil 15 Sep 2022 SE237144.021	ME329643.022 Soil 15 Sep 2022 SE237144.022	ME329643.023 Soil 15 Sep 2022 SE237144.023	ME329643.024 Soil 15 Sep 2022 SE237144.024
Per- and Polyfluoroalkyl Substances (PFAS) in Solid Samples Method: MA-1523 Tested: 5/10/2022						
Perfluorobutanoic acid (PFBA)	mg/kg	0.0016	-	-	-	-
Perfluoropentanoic acid (PFPeA)	mg/kg	0.0016	-	-	-	-
Perfluorohexanoic acid (PFHxA)	mg/kg	0.0016	-	-	-	-
Perfluoroheptanoic acid (PFHpA)	mg/kg	0.0016	-	-	-	-
Perfluorooctanoic Acid (PFOA)	mg/kg	0.0008	-	-	-	-
Perfluorononanoic acid (PFNA)	mg/kg	0.0016	-	-	-	-
Perfluorodecanoic acid (PFDA)	mg/kg	0.0016	-	-	-	-
Perfluoroundecanoic acid (PFUnA)	mg/kg	0.0016	-	-	-	-
Perfluorododecanoic acid (PFDoA)	mg/kg	0.0016	-	-	-	-
Perfluorotridecanoic acid (PFTrDA)	mg/kg	0.0016	-	-	-	-
Perfluorotetradecanoic acid (PFTeDA)	mg/kg	0.0016	-	-	-	-
Perfluorohexadecanoic acid (PFHxDA)	mg/kg	0.0032	-	-	-	-
Perfluorobutane sulfonate (PFBS)	mg/kg	0.0016	-	-	-	-
Perfluoropentane sulfonate (PFPeS)	mg/kg	0.0016	-	-	-	-
Perfluorohexane sulfonate (PFHxS)	mg/kg	0.0016	-	-	-	-
Perfluoroheptane sulfonate (PFHpS)	mg/kg	0.0016	-	-	-	-
Perfluorooctane sulfonate (PFOS)	mg/kg	0.0016	-	-	-	-
Sum PFOS and PFHXS	mg/kg	0.0016	-	-	-	-
Perfluorononane sulfonate (PFNS)	mg/kg	0.0016	-	-	-	-
Perfluorodecane sulfonate (PFDS)	mg/kg	0.0016	-	-	-	-
Perfluorododecane sulfonate (PFDoS)	mg/kg	0.0016	-	-	-	-
1H,1H,2H,2H-Perfluorohexane sulfonate (4:2) (4:2 FTS)	mg/kg	0.0016	-	-	-	-
1H,1H,2H,2H-Perfluorooctane sulfonate (6:2) (6:2 FTS)	mg/kg	0.0016	-	-	-	-
1H,1H,2H,2H-Perfluorodecane sulfonate (8:2) (8:2 FTS)	mg/kg	0.0016	-	-	-	-
Perfluorooctane sulfonamide (PFOSA)	mg/kg	0.0016	-	-	-	-
N-Methylperfluorooctane sulfonamide (N-MeFOSA)	mg/kg	0.008	-	-	-	-
N-Ethylperfluorooctane sulfonamide (N-EtFOSA)	mg/kg	0.008	-	-	-	-
2-(N-Methylperfluorooctane sulfonamido)-ethanol	mg/kg	0.016	-	-	-	-
2-(N-Ethylperfluorooctane sulfonamido)-ethanol	mg/kg	0.016	-	-	-	-
N-Methylperfluorooctanesulfonamidoacetic acid	mg/kg	0.008	-	-	-	-
N-Ethylperfluorooctanesulfonamidoacetic Acid	mg/kg	0.008	-	-	-	-
Total of PFAS (n=30)	mg/kg	0.08	-	-	-	-
(13C4-PFBA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C5-PFPeA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C5-PFHxA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C4-PFHpA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C4_PFOA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C9-PFNA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C6-PFDA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C7-PFUdA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C2-PFDoA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C2_PFTeDA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C2-PFHxDA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C3-PFBS) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C3-PFHxS) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C8-PFOS) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C2-4:2 FTS) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C2-6:2 FTS) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C2-8:2 FTS) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C8-PFOSA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(D3-N-MeFOSA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(D5-N-EtFOSA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(D7-N-MeFOSE) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(D9-N-EtFOSE) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(D3-N-MeFOSAA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(D5-N-EtFOSAA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-

Moisture Content Method: AN002 Tested: 4/10/2022

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name ME329643.021 Soil 15 Sep 2022 SE237144.021	ME329643.022 Soil 15 Sep 2022 SE237144.022	ME329643.023 Soil 15 Sep 2022 SE237144.023	ME329643.024 Soil 15 Sep 2022 SE237144.024
Moisture Content Method: AN002 Tested: 4/10/2022 (continued)						
% Moisture	%w/w	1	-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	ME329643.025 Soil 15 Sep 2022 SE237144.025	ME329643.026 Soil 15 Sep 2022 SE237144.026	ME329643.027 Soil 15 Sep 2022 SE237144.027	ME329643.028 Soil 15 Sep 2022 SE237144.028
Per- and Polyfluoroalkyl Substances (PFAS) in Solid Samples Method: MA-1523 Tested: 5/10/2022							
Perfluorobutanoic acid (PFBA)	mg/kg	0.0016		-	-	-	-
Perfluoropentanoic acid (PFPeA)	mg/kg	0.0016		-	-	-	-
Perfluorohexanoic acid (PFHxA)	mg/kg	0.0016		-	-	-	-
Perfluoroheptanoic acid (PFHpA)	mg/kg	0.0016		-	-	-	-
Perfluorooctanoic Acid (PFOA)	mg/kg	0.0008		-	-	-	-
Perfluorononanoic acid (PFNA)	mg/kg	0.0016		-	-	-	-
Perfluorodecanoic acid (PFDA)	mg/kg	0.0016		-	-	-	-
Perfluoroundecanoic acid (PFUnA)	mg/kg	0.0016		-	-	-	-
Perfluorododecanoic acid (PFDoA)	mg/kg	0.0016		-	-	-	-
Perfluorotridecanoic acid (PFTrDA)	mg/kg	0.0016		-	-	-	-
Perfluorotetradecanoic acid (PFTeDA)	mg/kg	0.0016		-	-	-	-
Perfluorohexadecanoic acid (PFHxDA)	mg/kg	0.0032		-	-	-	-
Perfluorobutane sulfonate (PFBS)	mg/kg	0.0016		-	-	-	-
Perfluoropentane sulfonate (PFPeS)	mg/kg	0.0016		-	-	-	-
Perfluorohexane sulfonate (PFHxS)	mg/kg	0.0016		-	-	-	-
Perfluoroheptane sulfonate (PFHpS)	mg/kg	0.0016		-	-	-	-
Perfluorooctane sulfonate (PFOS)	mg/kg	0.0016		-	-	-	-
Sum PFOS and PFHXS	mg/kg	0.0016		-	-	-	-
Perfluorononane sulfonate (PFNS)	mg/kg	0.0016		-	-	-	-
Perfluorodecane sulfonate (PFDS)	mg/kg	0.0016		-	-	-	-
Perfluorododecane sulfonate (PFDoS)	mg/kg	0.0016		-	-	-	-
1H,1H,2H,2H-Perfluorohexane sulfonate (4:2) (4:2 FTS)	mg/kg	0.0016		-	-	-	-
1H,1H,2H,2H-Perfluorooctane sulfonate (6:2) (6:2 FTS)	mg/kg	0.0016		-	-	-	-
1H,1H,2H,2H-Perfluorodecane sulfonate (8:2) (8:2 FTS)	mg/kg	0.0016		-	-	-	-
Perfluorooctane sulfonamide (PFOSA)	mg/kg	0.0016		-	-	-	-
N-Methylperfluorooctane sulfonamide (N-MeFOSA)	mg/kg	0.008		-	-	-	-
N-Ethylperfluorooctane sulfonamide (N-EtFOSA)	mg/kg	0.008		-	-	-	-
2-(N-Methylperfluorooctane sulfonamido)-ethanol	mg/kg	0.016		-	-	-	-
2-(N-Ethylperfluorooctane sulfonamido)-ethanol	mg/kg	0.016		-	-	-	-
N-Methylperfluorooctanesulfonamidoacetic acid	mg/kg	0.008		-	-	-	-
N-Ethylperfluorooctanesulfonamidoacetic Acid	mg/kg	0.008		-	-	-	-
Total of PFAS (n=30)	mg/kg	0.08		-	-	-	-
(13C4-PFBA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C5-PFPeA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C5-PFHxA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C4-PFHpA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C4_PFOA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C9-PFNA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C6-PFDA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C7-PFUdA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C2-PFDoA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C2_PFTeDA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C2-PFHxDA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C3-PFBS) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C3-PFHxS) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C8-PFOS) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C2-4:2 FTS) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C2-6:2 FTS) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C2-8:2 FTS) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C8-PFOSA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(D3-N-MeFOSA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(D5-N-EtFOSA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(D7-N-MeFOSE) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(D9-N-EtFOSE) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(D3-N-MeFOSAA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(D5-N-EtFOSAA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-

Moisture Content Method: AN002 Tested: 4/10/2022

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	ME329643.025 Soil 15 Sep 2022 SE237144.025	ME329643.026 Soil 15 Sep 2022 SE237144.026	ME329643.027 Soil 15 Sep 2022 SE237144.027	ME329643.028 Soil 15 Sep 2022 SE237144.028
Moisture Content Method: AN002 Tested: 4/10/2022 (continued)							
% Moisture	%w/w	1		-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	ME329643.029 Soil 15 Sep 2022 SE237144.029	ME329643.030 Soil 15 Sep 2022 SE237144.030	ME329643.031 Soil 15 Sep 2022 SE237144.031	ME329643.032 Soil 15 Sep 2022 SE237144.032
Per- and Polyfluoroalkyl Substances (PFAS) in Solid Samples	**Method: MA-1523**	**Tested: 5/10/2022**					
Perfluorobutanoic acid (PFBA)	mg/kg	0.0016		-	-	-	-
Perfluoropentanoic acid (PFPeA)	mg/kg	0.0016		-	-	-	-
Perfluorohexanoic acid (PFHxA)	mg/kg	0.0016		-	-	-	-
Perfluoroheptanoic acid (PFHpA)	mg/kg	0.0016		-	-	-	-
Perfluorooctanoic Acid (PFOA)	mg/kg	0.0008		-	-	-	-
Perfluorononanoic acid (PFNA)	mg/kg	0.0016		-	-	-	-
Perfluorodecanoic acid (PFDA)	mg/kg	0.0016		-	-	-	-
Perfluoroundecanoic acid (PFUnA)	mg/kg	0.0016		-	-	-	-
Perfluorododecanoic acid (PFDoA)	mg/kg	0.0016		-	-	-	-
Perfluorotridecanoic acid (PFTrDA)	mg/kg	0.0016		-	-	-	-
Perfluorotetradecanoic acid (PFTeDA)	mg/kg	0.0016		-	-	-	-
Perfluorohexadecanoic acid (PFHxDA)	mg/kg	0.0032		-	-	-	-
Perfluorobutane sulfonate (PFBS)	mg/kg	0.0016		-	-	-	-
Perfluoropentane sulfonate (PFPeS)	mg/kg	0.0016		-	-	-	-
Perfluorohexane sulfonate (PFHxS)	mg/kg	0.0016		-	-	-	-
Perfluoroheptane sulfonate (PFHpS)	mg/kg	0.0016		-	-	-	-
Perfluorooctane sulfonate (PFOS)	mg/kg	0.0016		-	-	-	-
Sum PFOS and PFHXS	mg/kg	0.0016		-	-	-	-
Perfluorononane sulfonate (PFNS)	mg/kg	0.0016		-	-	-	-
Perfluorodecane sulfonate (PFDS)	mg/kg	0.0016		-	-	-	-
Perfluorododecane sulfonate (PFDoS)	mg/kg	0.0016		-	-	-	-
1H,1H,2H,2H-Perfluorohexane sulfonate (4:2) (4:2 FTS)	mg/kg	0.0016		-	-	-	-
1H,1H,2H,2H-Perfluorooctane sulfonate (6:2) (6:2 FTS)	mg/kg	0.0016		-	-	-	-
1H,1H,2H,2H-Perfluorodecane sulfonate (8:2) (8:2 FTS)	mg/kg	0.0016		-	-	-	-
Perfluorooctane sulfonamide (PFOSA)	mg/kg	0.0016		-	-	-	-
N-Methylperfluorooctane sulfonamide (N-MeFOSA)	mg/kg	0.008		-	-	-	-
N-Ethylperfluorooctane sulfonamide (N-EtFOSA)	mg/kg	0.008		-	-	-	-
2-(N-Methylperfluorooctane sulfonamido)-ethanol	mg/kg	0.016		-	-	-	-
2-(N-Ethylperfluorooctane sulfonamido)-ethanol	mg/kg	0.016		-	-	-	-
N-Methylperfluorooctanesulfonamidoacetic acid	mg/kg	0.008		-	-	-	-
N-Ethylperfluorooctanesulfonamidoacetic Acid	mg/kg	0.008		-	-	-	-
Total of PFAS (n=30)	mg/kg	0.08		-	-	-	-
(13C4-PFBA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C5-PFPeA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C5-PFHxA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C4-PFHpA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C4_PFOA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C9-PFNA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C6-PFDA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C7-PFUdA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C2-PFDoA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C2_PFTeDA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C2-PFHxDA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C3-PFBS) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C3-PFHxS) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C8-PFOS) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C2-4:2 FTS) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C2-6:2 FTS) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C2-8:2 FTS) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C8-PFOSA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(D3-N-MeFOSA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(D5-N-EtFOSA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(D7-N-MeFOSE) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(D9-N-EtFOSE) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(D3-N-MeFOSAA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(D5-N-EtFOSAA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-

Moisture Content **Method: AN002** **Tested: 4/10/2022**

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name ME329643.029 Soil 15 Sep 2022 SE237144.029	ME329643.030 Soil 15 Sep 2022 SE237144.030	ME329643.031 Soil 15 Sep 2022 SE237144.031	ME329643.032 Soil 15 Sep 2022 SE237144.032
Moisture Content Method: AN002 Tested: 4/10/2022 (continued)						
% Moisture	%w/w	1	-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	ME329643.033 Soil 15 Sep 2022 SE237144.033	ME329643.034 Soil 15 Sep 2022 SE237144.034	ME329643.035 Soil 15 Sep 2022 SE237144.035	ME329643.036 Soil 15 Sep 2022 SE237144.036
Per- and Polyfluoroalkyl Substances (PFAS) in Solid Samples	**Method: MA-1523**	**Tested: 5/10/2022**					
Perfluorobutanoic acid (PFBA)	mg/kg	0.0016		-	-	-	-
Perfluoropentanoic acid (PFPeA)	mg/kg	0.0016		-	-	-	-
Perfluorohexanoic acid (PFHxA)	mg/kg	0.0016		-	-	-	-
Perfluoroheptanoic acid (PFHpA)	mg/kg	0.0016		-	-	-	-
Perfluorooctanoic Acid (PFOA)	mg/kg	0.0008		-	-	-	-
Perfluorononanoic acid (PFNA)	mg/kg	0.0016		-	-	-	-
Perfluorodecanoic acid (PFDA)	mg/kg	0.0016		-	-	-	-
Perfluoroundecanoic acid (PFUnA)	mg/kg	0.0016		-	-	-	-
Perfluorododecanoic acid (PFDoA)	mg/kg	0.0016		-	-	-	-
Perfluorotridecanoic acid (PFTrDA)	mg/kg	0.0016		-	-	-	-
Perfluorotetradecanoic acid (PFTeDA)	mg/kg	0.0016		-	-	-	-
Perfluorohexadecanoic acid (PFHxDA)	mg/kg	0.0032		-	-	-	-
Perfluorobutane sulfonate (PFBS)	mg/kg	0.0016		-	-	-	-
Perfluoropentane sulfonate (PFPeS)	mg/kg	0.0016		-	-	-	-
Perfluorohexane sulfonate (PFHxS)	mg/kg	0.0016		-	-	-	-
Perfluoroheptane sulfonate (PFHpS)	mg/kg	0.0016		-	-	-	-
Perfluorooctane sulfonate (PFOS)	mg/kg	0.0016		-	-	-	-
Sum PFOS and PFHXS	mg/kg	0.0016		-	-	-	-
Perfluorononane sulfonate (PFNS)	mg/kg	0.0016		-	-	-	-
Perfluorodecane sulfonate (PFDS)	mg/kg	0.0016		-	-	-	-
Perfluorododecane sulfonate (PFDoS)	mg/kg	0.0016		-	-	-	-
1H,1H,2H,2H-Perfluorohexane sulfonate (4:2) (4:2 FTS)	mg/kg	0.0016		-	-	-	-
1H,1H,2H,2H-Perfluorooctane sulfonate (6:2) (6:2 FTS)	mg/kg	0.0016		-	-	-	-
1H,1H,2H,2H-Perfluorodecane sulfonate (8:2) (8:2 FTS)	mg/kg	0.0016		-	-	-	-
Perfluorooctane sulfonamide (PFOSA)	mg/kg	0.0016		-	-	-	-
N-Methylperfluorooctane sulfonamide (N-MeFOSA)	mg/kg	0.008		-	-	-	-
N-Ethylperfluorooctane sulfonamide (N-EtFOSA)	mg/kg	0.008		-	-	-	-
2-(N-Methylperfluorooctane sulfonamido)-ethanol	mg/kg	0.016		-	-	-	-
2-(N-Ethylperfluorooctane sulfonamido)-ethanol	mg/kg	0.016		-	-	-	-
N-Methylperfluorooctanesulfonamidoacetic acid	mg/kg	0.008		-	-	-	-
N-Ethylperfluorooctanesulfonamidoacetic Acid	mg/kg	0.008		-	-	-	-
Total of PFAS (n=30)	mg/kg	0.08		-	-	-	-
(13C4-PFBA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C5-PFPeA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C5-PFHxA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C4-PFHpA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C4_PFOA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C9-PFNA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C6-PFDA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C7-PFUdA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C2-PFDoA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C2_PFTeDA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C2-PFHxDA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C3-PFBS) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C3-PFHxS) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C8-PFOS) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C2-4:2 FTS) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C2-6:2 FTS) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C2-8:2 FTS) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C8-PFOSA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(D3-N-MeFOSA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(D5-N-EtFOSA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(D7-N-MeFOSE) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(D9-N-EtFOSE) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(D3-N-MeFOSAA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(D5-N-EtFOSAA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-

Moisture Content **Method: AN002** **Tested: 4/10/2022**

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name ME329643.033 Soil 15 Sep 2022 SE237144.033	ME329643.034 Soil 15 Sep 2022 SE237144.034	ME329643.035 Soil 15 Sep 2022 SE237144.035	ME329643.036 Soil 15 Sep 2022 SE237144.036
Moisture Content Method: AN002 Tested: 4/10/2022 (continued)						
% Moisture	%w/w	1	-	-	-	-

Parameter	Units	LOR	Sample Number ME329643.037 Sample Matrix Soil Sample Date 15 Sep 2022 Sample Name SE237144.037	ME329643.038 Soil 15 Sep 2022 SE237144.038	ME329643.039 Soil 15 Sep 2022 SE237144.039	ME329643.040 Soil 15 Sep 2022 SE237144.040
Per- and Polyfluoroalkyl Substances (PFAS) in Solid Samples Method: MA-1523 Tested: 5/10/2022						
Perfluorobutanoic acid (PFBA)	mg/kg	0.0016	-	-	-	-
Perfluoropentanoic acid (PFPeA)	mg/kg	0.0016	-	-	-	-
Perfluorohexanoic acid (PFHxA)	mg/kg	0.0016	-	-	-	-
Perfluoroheptanoic acid (PFHpA)	mg/kg	0.0016	-	-	-	-
Perfluorooctanoic Acid (PFOA)	mg/kg	0.0008	-	-	-	-
Perfluorononanoic acid (PFNA)	mg/kg	0.0016	-	-	-	-
Perfluorodecanoic acid (PFDA)	mg/kg	0.0016	-	-	-	-
Perfluoroundecanoic acid (PFUnA)	mg/kg	0.0016	-	-	-	-
Perfluorododecanoic acid (PFDoA)	mg/kg	0.0016	-	-	-	-
Perfluorotridecanoic acid (PFTrDA)	mg/kg	0.0016	-	-	-	-
Perfluorotetradecanoic acid (PFTeDA)	mg/kg	0.0016	-	-	-	-
Perfluorohexadecanoic acid (PFHxDA)	mg/kg	0.0032	-	-	-	-
Perfluorobutane sulfonate (PFBS)	mg/kg	0.0016	-	-	-	-
Perfluoropentane sulfonate (PFPeS)	mg/kg	0.0016	-	-	-	-
Perfluorohexane sulfonate (PFHxS)	mg/kg	0.0016	-	-	-	-
Perfluoroheptane sulfonate (PFHpS)	mg/kg	0.0016	-	-	-	-
Perfluorooctane sulfonate (PFOS)	mg/kg	0.0016	-	-	-	-
Sum PFOS and PFHXS	mg/kg	0.0016	-	-	-	-
Perfluorononane sulfonate (PFNS)	mg/kg	0.0016	-	-	-	-
Perfluorodecane sulfonate (PFDS)	mg/kg	0.0016	-	-	-	-
Perfluorododecane sulfonate (PFDoS)	mg/kg	0.0016	-	-	-	-
1H,1H,2H,2H-Perfluorohexane sulfonate (4:2) (4:2 FTS)	mg/kg	0.0016	-	-	-	-
1H,1H,2H,2H-Perfluorooctane sulfonate (6:2) (6:2 FTS)	mg/kg	0.0016	-	-	-	-
1H,1H,2H,2H-Perfluorodecane sulfonate (8:2) (8:2 FTS)	mg/kg	0.0016	-	-	-	-
Perfluorooctane sulfonamide (PFOSA)	mg/kg	0.0016	-	-	-	-
N-Methylperfluorooctane sulfonamide (N-MeFOSA)	mg/kg	0.008	-	-	-	-
N-Ethylperfluorooctane sulfonamide (N-EtFOSA)	mg/kg	0.008	-	-	-	-
2-(N-Methylperfluorooctane sulfonamido)-ethanol	mg/kg	0.016	-	-	-	-
2-(N-Ethylperfluorooctane sulfonamido)-ethanol	mg/kg	0.016	-	-	-	-
N-Methylperfluorooctanesulfonamidoacetic acid	mg/kg	0.008	-	-	-	-
N-Ethylperfluorooctanesulfonamidoacetic Acid	mg/kg	0.008	-	-	-	-
Total of PFAS (n=30)	mg/kg	0.08	-	-	-	-
(13C4-PFBA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C5-PFPeA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C5-PFHxA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C4-PFHpA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C4_PFOA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C9-PFNA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C6-PFDA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C7-PFUdA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C2-PFDoA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C2_PFTeDA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C2-PFHxDA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C3-PFBS) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C3-PFHxS) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C8-PFOS) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C2-4:2 FTS) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C2-6:2 FTS) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C2-8:2 FTS) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C8-PFOSA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(D3-N-MeFOSA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(D5-N-EtFOSA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(D7-N-MeFOSE) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(D9-N-EtFOSE) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(D3-N-MeFOSAA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(D5-N-EtFOSAA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-

Moisture Content Method: AN002 Tested: 4/10/2022

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name ME329643.037 Soil 15 Sep 2022 SE237144.037	ME329643.038 Soil 15 Sep 2022 SE237144.038	ME329643.039 Soil 15 Sep 2022 SE237144.039	ME329643.040 Soil 15 Sep 2022 SE237144.040
Moisture Content Method: AN002 Tested: 4/10/2022 (continued)						
% Moisture	%w/w	1	-	-	-	-

Parameter	Units	LOR	Sample Number: ME329643.041 Sample Matrix: Soil Sample Date: 15 Sep 2022 Sample Name: SE237144.041	ME329643.042 Soil 15 Sep 2022 SE237144.042	ME329643.043 Soil 15 Sep 2022 SE237144.043	ME329643.044 Soil 15 Sep 2022 SE237144.044
Per- and Polyfluoroalkyl Substances (PFAS) in Solid Samples Method: MA-1523 Tested: 5/10/2022						
Perfluorobutanoic acid (PFBA)	mg/kg	0.0016	-	-	-	-
Perfluoropentanoic acid (PFPeA)	mg/kg	0.0016	-	-	-	-
Perfluorohexanoic acid (PFHxA)	mg/kg	0.0016	-	-	-	-
Perfluoroheptanoic acid (PFHpA)	mg/kg	0.0016	-	-	-	-
Perfluorooctanoic Acid (PFOA)	mg/kg	0.0008	-	-	-	-
Perfluorononanoic acid (PFNA)	mg/kg	0.0016	-	-	-	-
Perfluorodecanoic acid (PFDA)	mg/kg	0.0016	-	-	-	-
Perfluoroundecanoic acid (PFUnA)	mg/kg	0.0016	-	-	-	-
Perfluorododecanoic acid (PFDoA)	mg/kg	0.0016	-	-	-	-
Perfluorotridecanoic acid (PFTrDA)	mg/kg	0.0016	-	-	-	-
Perfluorotetradecanoic acid (PFTeDA)	mg/kg	0.0016	-	-	-	-
Perfluorohexadecanoic acid (PFHxDA)	mg/kg	0.0032	-	-	-	-
Perfluorobutane sulfonate (PFBS)	mg/kg	0.0016	-	-	-	-
Perfluoropentane sulfonate (PFPeS)	mg/kg	0.0016	-	-	-	-
Perfluorohexane sulfonate (PFHxS)	mg/kg	0.0016	-	-	-	-
Perfluoroheptane sulfonate (PFHpS)	mg/kg	0.0016	-	-	-	-
Perfluorooctane sulfonate (PFOS)	mg/kg	0.0016	-	-	-	-
Sum PFOS and PFHXS	mg/kg	0.0016	-	-	-	-
Perfluorononane sulfonate (PFNS)	mg/kg	0.0016	-	-	-	-
Perfluorodecane sulfonate (PFDS)	mg/kg	0.0016	-	-	-	-
Perfluorododecane sulfonate (PFDoS)	mg/kg	0.0016	-	-	-	-
1H,1H,2H,2H-Perfluorohexane sulfonate (4:2) (4:2 FTS)	mg/kg	0.0016	-	-	-	-
1H,1H,2H,2H-Perfluorooctane sulfonate (6:2) (6:2 FTS)	mg/kg	0.0016	-	-	-	-
1H,1H,2H,2H-Perfluorodecane sulfonate (8:2) (8:2 FTS)	mg/kg	0.0016	-	-	-	-
Perfluorooctane sulfonamide (PFOSA)	mg/kg	0.0016	-	-	-	-
N-Methylperfluorooctane sulfonamide (N-MeFOSA)	mg/kg	0.008	-	-	-	-
N-Ethylperfluorooctane sulfonamide (N-EtFOSA)	mg/kg	0.008	-	-	-	-
2-(N-Methylperfluorooctane sulfonamido)-ethanol	mg/kg	0.016	-	-	-	-
2-(N-Ethylperfluorooctane sulfonamido)-ethanol	mg/kg	0.016	-	-	-	-
N-Methylperfluorooctanesulfonamidoacetic acid	mg/kg	0.008	-	-	-	-
N-Ethylperfluorooctanesulfonamidoacetic Acid	mg/kg	0.008	-	-	-	-
Total of PFAS (n=30)	mg/kg	0.08	-	-	-	-
(13C4-PFBA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C5-PFPeA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C5-PFHxA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C4-PFHpA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C4_PFOA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C9-PFNA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C6-PFDA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C7-PFUdA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C2-PFDoA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C2_PFTeDA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C2-PFHxDA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C3-PFBS) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C3-PFHxS) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C8-PFOS) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C2-4:2 FTS) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C2-6:2 FTS) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C2-8:2 FTS) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C8-PFOSA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(D3-N-MeFOSA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(D5-N-EtFOSA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(D7-N-MeFOSE) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(D9-N-EtFOSE) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(D3-N-MeFOSAA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(D5-N-EtFOSAA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-

Moisture Content Method: AN002 Tested: 4/10/2022

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	ME329643.041 Soil 15 Sep 2022 SE237144.041	ME329643.042 Soil 15 Sep 2022 SE237144.042	ME329643.043 Soil 15 Sep 2022 SE237144.043	ME329643.044 Soil 15 Sep 2022 SE237144.044
Moisture Content Method: AN002 Tested: 4/10/2022 (continued)							
% Moisture	%w/w	1		-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	ME329643.045 Soil 15 Sep 2022 SE237144.045	ME329643.046 Soil 15 Sep 2022 SE237144.046	ME329643.047 Soil 15 Sep 2022 SE237144.047	ME329643.048 Soil 15 Sep 2022 SE237144.048
Per- and Polyfluoroalkyl Substances (PFAS) in Solid Samples	**Method: MA-1523**	**Tested: 5/10/2022**					
Perfluorobutanoic acid (PFBA)	mg/kg	0.0016		-	-	-	-
Perfluoropentanoic acid (PFPeA)	mg/kg	0.0016		-	-	-	-
Perfluorohexanoic acid (PFHxA)	mg/kg	0.0016		-	-	-	-
Perfluoroheptanoic acid (PFHpA)	mg/kg	0.0016		-	-	-	-
Perfluorooctanoic Acid (PFOA)	mg/kg	0.0008		-	-	-	-
Perfluorononanoic acid (PFNA)	mg/kg	0.0016		-	-	-	-
Perfluorodecanoic acid (PFDA)	mg/kg	0.0016		-	-	-	-
Perfluoroundecanoic acid (PFUnA)	mg/kg	0.0016		-	-	-	-
Perfluorododecanoic acid (PFDoA)	mg/kg	0.0016		-	-	-	-
Perfluorotridecanoic acid (PFTrDA)	mg/kg	0.0016		-	-	-	-
Perfluorotetradecanoic acid (PFTeDA)	mg/kg	0.0016		-	-	-	-
Perfluorohexadecanoic acid (PFHxDA)	mg/kg	0.0032		-	-	-	-
Perfluorobutane sulfonate (PFBS)	mg/kg	0.0016		-	-	-	-
Perfluoropentane sulfonate (PFPeS)	mg/kg	0.0016		-	-	-	-
Perfluorohexane sulfonate (PFHxS)	mg/kg	0.0016		-	-	-	-
Perfluoroheptane sulfonate (PFHpS)	mg/kg	0.0016		-	-	-	-
Perfluorooctane sulfonate (PFOS)	mg/kg	0.0016		-	-	-	-
Sum PFOS and PFHXS	mg/kg	0.0016		-	-	-	-
Perfluorononane sulfonate (PFNS)	mg/kg	0.0016		-	-	-	-
Perfluorodecane sulfonate (PFDS)	mg/kg	0.0016		-	-	-	-
Perfluorododecane sulfonate (PFDoS)	mg/kg	0.0016		-	-	-	-
1H,1H,2H,2H-Perfluorohexane sulfonate (4:2) (4:2 FTS)	mg/kg	0.0016		-	-	-	-
1H,1H,2H,2H-Perfluorooctane sulfonate (6:2) (6:2 FTS)	mg/kg	0.0016		-	-	-	-
1H,1H,2H,2H-Perfluorodecane sulfonate (8:2) (8:2 FTS)	mg/kg	0.0016		-	-	-	-
Perfluorooctane sulfonamide (PFOSA)	mg/kg	0.0016		-	-	-	-
N-Methylperfluorooctane sulfonamide (N-MeFOSA)	mg/kg	0.008		-	-	-	-
N-Ethylperfluorooctane sulfonamide (N-EtFOSA)	mg/kg	0.008		-	-	-	-
2-(N-Methylperfluorooctane sulfonamido)-ethanol	mg/kg	0.016		-	-	-	-
2-(N-Ethylperfluorooctane sulfonamido)-ethanol	mg/kg	0.016		-	-	-	-
N-Methylperfluorooctanesulfonamidoacetic acid	mg/kg	0.008		-	-	-	-
N-Ethylperfluorooctanesulfonamidoacetic Acid	mg/kg	0.008		-	-	-	-
Total of PFAS (n=30)	mg/kg	0.08		-	-	-	-
(13C4-PFBA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C5-PFPeA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C5-PFHxA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C4-PFHpA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C4_PFOA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C9-PFNA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C6-PFDA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C7-PFUdA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C2-PFDoA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C2_PFTeDA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C2-PFHxDA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C3-PFBS) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C3-PFHxS) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C8-PFOS) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C2-4:2 FTS) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C2-6:2 FTS) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C2-8:2 FTS) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C8-PFOSA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(D3-N-MeFOSA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(D5-N-EtFOSA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(D7-N-MeFOSE) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(D9-N-EtFOSE) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(D3-N-MeFOSAA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(D5-N-EtFOSAA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-

Moisture Content **Method: AN002** **Tested: 4/10/2022**

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	ME329643.045 Soil 15 Sep 2022 SE237144.045	ME329643.046 Soil 15 Sep 2022 SE237144.046	ME329643.047 Soil 15 Sep 2022 SE237144.047	ME329643.048 Soil 15 Sep 2022 SE237144.048
Moisture Content Method: AN002 Tested: 4/10/2022 (continued)							
% Moisture	%w/w	1		-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	ME329643.049 Soil 15 Sep 2022 SE237144.049	ME329643.050 Soil 15 Sep 2022 SE237144.050	ME329643.051 Soil 15 Sep 2022 SE237144.051	ME329643.052 Soil 15 Sep 2022 SE237144.052
Per- and Polyfluoroalkyl Substances (PFAS) in Solid Samples	**Method: MA-1523**	**Tested: 5/10/2022**					
Perfluorobutanoic acid (PFBA)	mg/kg	0.0016		-	-	-	-
Perfluoropentanoic acid (PFPeA)	mg/kg	0.0016		-	-	-	-
Perfluorohexanoic acid (PFHxA)	mg/kg	0.0016		-	-	-	-
Perfluoroheptanoic acid (PFHpA)	mg/kg	0.0016		-	-	-	-
Perfluorooctanoic Acid (PFOA)	mg/kg	0.0008		-	-	-	-
Perfluorononanoic acid (PFNA)	mg/kg	0.0016		-	-	-	-
Perfluorodecanoic acid (PFDA)	mg/kg	0.0016		-	-	-	-
Perfluoroundecanoic acid (PFUnA)	mg/kg	0.0016		-	-	-	-
Perfluorododecanoic acid (PFDoA)	mg/kg	0.0016		-	-	-	-
Perfluorotridecanoic acid (PFTrDA)	mg/kg	0.0016		-	-	-	-
Perfluorotetradecanoic acid (PFTeDA)	mg/kg	0.0016		-	-	-	-
Perfluorohexadecanoic acid (PFHxDA)	mg/kg	0.0032		-	-	-	-
Perfluorobutane sulfonate (PFBS)	mg/kg	0.0016		-	-	-	-
Perfluoropentane sulfonate (PFPeS)	mg/kg	0.0016		-	-	-	-
Perfluorohexane sulfonate (PFHxS)	mg/kg	0.0016		-	-	-	-
Perfluoroheptane sulfonate (PFHpS)	mg/kg	0.0016		-	-	-	-
Perfluorooctane sulfonate (PFOS)	mg/kg	0.0016		-	-	-	-
Sum PFOS and PFHXS	mg/kg	0.0016		-	-	-	-
Perfluorononane sulfonate (PFNS)	mg/kg	0.0016		-	-	-	-
Perfluorodecane sulfonate (PFDS)	mg/kg	0.0016		-	-	-	-
Perfluorododecane sulfonate (PFDoS)	mg/kg	0.0016		-	-	-	-
1H,1H,2H,2H-Perfluorohexane sulfonate (4:2) (4:2 FTS)	mg/kg	0.0016		-	-	-	-
1H,1H,2H,2H-Perfluorooctane sulfonate (6:2) (6:2 FTS)	mg/kg	0.0016		-	-	-	-
1H,1H,2H,2H-Perfluorodecane sulfonate (8:2) (8:2 FTS)	mg/kg	0.0016		-	-	-	-
Perfluorooctane sulfonamide (PFOSA)	mg/kg	0.0016		-	-	-	-
N-Methylperfluorooctane sulfonamide (N-MeFOSA)	mg/kg	0.008		-	-	-	-
N-Ethylperfluorooctane sulfonamide (N-EtFOSA)	mg/kg	0.008		-	-	-	-
2-(N-Methylperfluorooctane sulfonamido)-ethanol	mg/kg	0.016		-	-	-	-
2-(N-Ethylperfluorooctane sulfonamido)-ethanol	mg/kg	0.016		-	-	-	-
N-Methylperfluorooctanesulfonamidoacetic acid	mg/kg	0.008		-	-	-	-
N-Ethylperfluorooctanesulfonamidoacetic Acid	mg/kg	0.008		-	-	-	-
Total of PFAS (n=30)	mg/kg	0.08		-	-	-	-
(13C4-PFBA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C5-PFPeA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C5-PFHxA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C4-PFHpA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C4_PFOA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C9-PFNA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C6-PFDA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C7-PFUdA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C2-PFDoA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C2_PFTeDA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C2-PFHxDA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C3-PFBS) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C3-PFHxS) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C8-PFOS) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C2-4:2 FTS) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C2-6:2 FTS) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C2-8:2 FTS) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(13C8-PFOSA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(D3-N-MeFOSA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(D5-N-EtFOSA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(D7-N-MeFOSE) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(D9-N-EtFOSE) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(D3-N-MeFOSAA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
(D5-N-EtFOSAA) Isotopically Labelled Internal Recovery	%	-		-	-	-	-
Moisture Content	**Method: AN002**	**Tested: 4/10/2022**					

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	ME329643.049 Soil 15 Sep 2022 SE237144.049	ME329643.050 Soil 15 Sep 2022 SE237144.050	ME329643.051 Soil 15 Sep 2022 SE237144.051	ME329643.052 Soil 15 Sep 2022 SE237144.052
Moisture Content Method: AN002 Tested: 4/10/2022 (continued)							
% Moisture	%w/w	1		-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name ME329643.053 Soil 15 Sep 2022 SE237144.053	ME329643.054 Soil 15 Sep 2022 SE237144.054	ME329643.055 Soil 15 Sep 2022 SE237144.055	ME329643.056 Soil 15 Sep 2022 SE237144.056
Per- and Polyfluoroalkyl Substances (PFAS) in Solid Samples Method: MA-1523 Tested: 5/10/2022						
Perfluorobutanoic acid (PFBA)	mg/kg	0.0016	-	-	-	-
Perfluoropentanoic acid (PFPeA)	mg/kg	0.0016	-	-	-	-
Perfluorohexanoic acid (PFHxA)	mg/kg	0.0016	-	-	-	-
Perfluoroheptanoic acid (PFHpA)	mg/kg	0.0016	-	-	-	-
Perfluorooctanoic Acid (PFOA)	mg/kg	0.0008	-	-	-	-
Perfluorononanoic acid (PFNA)	mg/kg	0.0016	-	-	-	-
Perfluorodecanoic acid (PFDA)	mg/kg	0.0016	-	-	-	-
Perfluoroundecanoic acid (PFUnA)	mg/kg	0.0016	-	-	-	-
Perfluorododecanoic acid (PFDoA)	mg/kg	0.0016	-	-	-	-
Perfluorotridecanoic acid (PFTrDA)	mg/kg	0.0016	-	-	-	-
Perfluorotetradecanoic acid (PFTeDA)	mg/kg	0.0016	-	-	-	-
Perfluorohexadecanoic acid (PFHxDA)	mg/kg	0.0032	-	-	-	-
Perfluorobutane sulfonate (PFBS)	mg/kg	0.0016	-	-	-	-
Perfluoropentane sulfonate (PFPeS)	mg/kg	0.0016	-	-	-	-
Perfluorohexane sulfonate (PFHxS)	mg/kg	0.0016	-	-	-	-
Perfluoroheptane sulfonate (PFHpS)	mg/kg	0.0016	-	-	-	-
Perfluorooctane sulfonate (PFOS)	mg/kg	0.0016	-	-	-	-
Sum PFOS and PFHXS	mg/kg	0.0016	-	-	-	-
Perfluorononane sulfonate (PFNS)	mg/kg	0.0016	-	-	-	-
Perfluorodecane sulfonate (PFDS)	mg/kg	0.0016	-	-	-	-
Perfluorododecane sulfonate (PFDoS)	mg/kg	0.0016	-	-	-	-
1H,1H,2H,2H-Perfluorohexane sulfonate (4:2) (4:2 FTS)	mg/kg	0.0016	-	-	-	-
1H,1H,2H,2H-Perfluorooctane sulfonate (6:2) (6:2 FTS)	mg/kg	0.0016	-	-	-	-
1H,1H,2H,2H-Perfluorodecane sulfonate (8:2) (8:2 FTS)	mg/kg	0.0016	-	-	-	-
Perfluorooctane sulfonamide (PFOSA)	mg/kg	0.0016	-	-	-	-
N-Methylperfluorooctane sulfonamide (N-MeFOSA)	mg/kg	0.008	-	-	-	-
N-Ethylperfluorooctane sulfonamide (N-EtFOSA)	mg/kg	0.008	-	-	-	-
2-(N-Methylperfluorooctane sulfonamido)-ethanol	mg/kg	0.016	-	-	-	-
2-(N-Ethylperfluorooctane sulfonamido)-ethanol	mg/kg	0.016	-	-	-	-
N-Methylperfluorooctanesulfonamidoacetic acid	mg/kg	0.008	-	-	-	-
N-Ethylperfluorooctanesulfonamidoacetic Acid	mg/kg	0.008	-	-	-	-
Total of PFAS (n=30)	mg/kg	0.08	-	-	-	-
(13C4-PFBA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C5-PFPeA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C5-PFHxA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C4-PFHpA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C4_PFOA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C9-PFNA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C6-PFDA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C7-PFUdA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C2-PFDoA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C2_PFTeDA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C2-PFHxDA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C3-PFBS) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C3-PFHxS) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C8-PFOS) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C2-4:2 FTS) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C2-6:2 FTS) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C2-8:2 FTS) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C8-PFOSA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(D3-N-MeFOSA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(D5-N-EtFOSA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(D7-N-MeFOSE) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(D9-N-EtFOSE) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(D3-N-MeFOSAA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(D5-N-EtFOSAA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-

Moisture Content Method: AN002 Tested: 4/10/2022

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name ME329643.053 Soil 15 Sep 2022 SE237144.053	ME329643.054 Soil 15 Sep 2022 SE237144.054	ME329643.055 Soil 15 Sep 2022 SE237144.055	ME329643.056 Soil 15 Sep 2022 SE237144.056
Moisture Content Method: AN002 Tested: 4/10/2022 (continued)						
% Moisture	%w/w	1	-	-	-	-

Parameter	Units	LOR	Sample Number ME329643.057 Sample Matrix Soil Sample Date 16 Sep 2022 Sample Name SE237144.057	ME329643.058 Soil 16 Sep 2022 SE237144.058	ME329643.059 Soil 14 Sep 2022 SE237144.059	ME329643.060 Soil 15 Sep 2022 SE237144.060
Per- and Polyfluoroalkyl Substances (PFAS) in Solid Samples Method: MA-1523 Tested: 5/10/2022						
Perfluorobutanoic acid (PFBA)	mg/kg	0.0016	-	-	-	-
Perfluoropentanoic acid (PFPeA)	mg/kg	0.0016	-	-	-	-
Perfluorohexanoic acid (PFHxA)	mg/kg	0.0016	-	-	-	-
Perfluoroheptanoic acid (PFHpA)	mg/kg	0.0016	-	-	-	-
Perfluorooctanoic Acid (PFOA)	mg/kg	0.0008	-	-	-	-
Perfluorononanoic acid (PFNA)	mg/kg	0.0016	-	-	-	-
Perfluorodecanoic acid (PFDA)	mg/kg	0.0016	-	-	-	-
Perfluoroundecanoic acid (PFUnA)	mg/kg	0.0016	-	-	-	-
Perfluorododecanoic acid (PFDoA)	mg/kg	0.0016	-	-	-	-
Perfluorotridecanoic acid (PFTrDA)	mg/kg	0.0016	-	-	-	-
Perfluorotetradecanoic acid (PFTeDA)	mg/kg	0.0016	-	-	-	-
Perfluorohexadecanoic acid (PFHxDA)	mg/kg	0.0032	-	-	-	-
Perfluorobutane sulfonate (PFBS)	mg/kg	0.0016	-	-	-	-
Perfluoropentane sulfonate (PFPeS)	mg/kg	0.0016	-	-	-	-
Perfluorohexane sulfonate (PFHxS)	mg/kg	0.0016	-	-	-	-
Perfluoroheptane sulfonate (PFHpS)	mg/kg	0.0016	-	-	-	-
Perfluorooctane sulfonate (PFOS)	mg/kg	0.0016	-	-	-	-
Sum PFOS and PFHXS	mg/kg	0.0016	-	-	-	-
Perfluorononane sulfonate (PFNS)	mg/kg	0.0016	-	-	-	-
Perfluorodecane sulfonate (PFDS)	mg/kg	0.0016	-	-	-	-
Perfluorododecane sulfonate (PFDoS)	mg/kg	0.0016	-	-	-	-
1H,1H,2H,2H-Perfluorohexane sulfonate (4:2) (4:2 FTS)	mg/kg	0.0016	-	-	-	-
1H,1H,2H,2H-Perfluorooctane sulfonate (6:2) (6:2 FTS)	mg/kg	0.0016	-	-	-	-
1H,1H,2H,2H-Perfluorodecane sulfonate (8:2) (8:2 FTS)	mg/kg	0.0016	-	-	-	-
Perfluorooctane sulfonamide (PFOSA)	mg/kg	0.0016	-	-	-	-
N-Methylperfluorooctane sulfonamide (N-MeFOSA)	mg/kg	0.008	-	-	-	-
N-Ethylperfluorooctane sulfonamide (N-EtFOSA)	mg/kg	0.008	-	-	-	-
2-(N-Methylperfluorooctane sulfonamido)-ethanol	mg/kg	0.016	-	-	-	-
2-(N-Ethylperfluorooctane sulfonamido)-ethanol	mg/kg	0.016	-	-	-	-
N-Methylperfluorooctanesulfonamidoacetic acid	mg/kg	0.008	-	-	-	-
N-Ethylperfluorooctanesulfonamidoacetic Acid	mg/kg	0.008	-	-	-	-
Total of PFAS (n=30)	mg/kg	0.08	-	-	-	-
(13C4-PFBA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C5-PFPeA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C5-PFHxA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C4-PFHpA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C4_PFOA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C9-PFNA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C6-PFDA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C7-PFUdA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C2-PFDoA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C2_PFTeDA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C2-PFHxDA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C3-PFBS) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C3-PFHxS) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C8-PFOS) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C2-4:2 FTS) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C2-6:2 FTS) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C2-8:2 FTS) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(13C8-PFOSA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(D3-N-MeFOSA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(D5-N-EtFOSA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(D7-N-MeFOSE) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(D9-N-EtFOSE) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(D3-N-MeFOSAA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-
(D5-N-EtFOSAA) Isotopically Labelled Internal Recovery	%	-	-	-	-	-

Moisture Content Method: AN002 Tested: 4/10/2022

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	ME329643.057 Soil 16 Sep 2022 SE237144.057	ME329643.058 Soil 16 Sep 2022 SE237144.058	ME329643.059 Soil 14 Sep 2022 SE237144.059	ME329643.060 Soil 15 Sep 2022 SE237144.060
Moisture Content Method: AN002 Tested: 4/10/2022 (continued)							
% Moisture	%w/w	1		-	-	-	-

Parameter	Units	LOR	Sample Number ME329643.061 Sample Matrix Soil Sample Date 15 Sep 2022 Sample Name SE237144.061	Sample Number ME329643.062 Sample Matrix Soil Sample Date 16 Sep 2022 Sample Name SE237144.062
Per- and Polyfluoroalkyl Substances (PFAS) in Solid Samples Method: MA-1523 Tested: 5/10/2022				
Perfluorobutanoic acid (PFBA)	mg/kg	0.0016	-	-
Perfluoropentanoic acid (PFPeA)	mg/kg	0.0016	-	-
Perfluorohexanoic acid (PFHxA)	mg/kg	0.0016	-	-
Perfluoroheptanoic acid (PFHpA)	mg/kg	0.0016	-	-
Perfluorooctanoic Acid (PFOA)	mg/kg	0.0008	-	-
Perfluorononanoic acid (PFNA)	mg/kg	0.0016	-	-
Perfluorodecanoic acid (PFDA)	mg/kg	0.0016	-	-
Perfluoroundecanoic acid (PFUnA)	mg/kg	0.0016	-	-
Perfluorododecanoic acid (PFDoA)	mg/kg	0.0016	-	-
Perfluorotridecanoic acid (PFTrDA)	mg/kg	0.0016	-	-
Perfluorotetradecanoic acid (PFTeDA)	mg/kg	0.0016	-	-
Perfluorohexadecanoic acid (PFHxDA)	mg/kg	0.0032	-	-
Perfluorobutane sulfonate (PFBS)	mg/kg	0.0016	-	-
Perfluoropentane sulfonate (PFPeS)	mg/kg	0.0016	-	-
Perfluorohexane sulfonate (PFHxS)	mg/kg	0.0016	-	-
Perfluoroheptane sulfonate (PFHpS)	mg/kg	0.0016	-	-
Perfluorooctane sulfonate (PFOS)	mg/kg	0.0016	-	-
Sum PFOS and PFHXS	mg/kg	0.0016	-	-
Perfluorononane sulfonate (PFNS)	mg/kg	0.0016	-	-
Perfluorodecane sulfonate (PFDS)	mg/kg	0.0016	-	-
Perfluorododecane sulfonate (PFDoS)	mg/kg	0.0016	-	-
1H,1H,2H,2H-Perfluorohexane sulfonate (4:2) (4:2 FTS)	mg/kg	0.0016	-	-
1H,1H,2H,2H-Perfluorooctane sulfonate (6:2) (6:2 FTS)	mg/kg	0.0016	-	-
1H,1H,2H,2H-Perfluorodecane sulfonate (8:2) (8:2 FTS)	mg/kg	0.0016	-	-
Perfluorooctane sulfonamide (PFOSA)	mg/kg	0.0016	-	-
N-Methylperfluorooctane sulfonamide (N-MeFOSA)	mg/kg	0.008	-	-
N-Ethylperfluorooctane sulfonamide (N-EtFOSA)	mg/kg	0.008	-	-
2-(N-Methylperfluorooctane sulfonamido)-ethanol	mg/kg	0.016	-	-
2-(N-Ethylperfluorooctane sulfonamido)-ethanol	mg/kg	0.016	-	-
N-Methylperfluorooctanesulfonamidoacetic acid	mg/kg	0.008	-	-
N-Ethylperfluorooctanesulfonamidoacetic Acid	mg/kg	0.008	-	-
Total of PFAS (n=30)	mg/kg	0.08	-	-
(13C4-PFBA) Isotopically Labelled Internal Recovery	%	-	-	-
(13C5-PFPeA) Isotopically Labelled Internal Recovery	%	-	-	-
(13C5-PFHxA) Isotopically Labelled Internal Recovery	%	-	-	-
(13C4-PFHpA) Isotopically Labelled Internal Recovery	%	-	-	-
(13C4_PFOA) Isotopically Labelled Internal Recovery	%	-	-	-
(13C9-PFNA) Isotopically Labelled Internal Recovery	%	-	-	-
(13C6-PFDA) Isotopically Labelled Internal Recovery	%	-	-	-
(13C7-PFUdA) Isotopically Labelled Internal Recovery	%	-	-	-
(13C2-PFDoA) Isotopically Labelled Internal Recovery	%	-	-	-
(13C2_PFTeDA) Isotopically Labelled Internal Recovery	%	-	-	-
(13C2-PFHxDA) Isotopically Labelled Internal Recovery	%	-	-	-
(13C3-PFBS) Isotopically Labelled Internal Recovery	%	-	-	-
(13C3-PFHxS) Isotopically Labelled Internal Recovery	%	-	-	-
(13C8-PFOS) Isotopically Labelled Internal Recovery	%	-	-	-
(13C2-4:2 FTS) Isotopically Labelled Internal Recovery	%	-	-	-
(13C2-6:2 FTS) Isotopically Labelled Internal Recovery	%	-	-	-
(13C2-8:2 FTS) Isotopically Labelled Internal Recovery	%	-	-	-
(13C8-PFOSA) Isotopically Labelled Internal Recovery	%	-	-	-
(D3-N-MeFOSA) Isotopically Labelled Internal Recovery	%	-	-	-
(D5-N-EtFOSA) Isotopically Labelled Internal Recovery	%	-	-	-
(D7-N-MeFOSE) Isotopically Labelled Internal Recovery	%	-	-	-
(D9-N-EtFOSE) Isotopically Labelled Internal Recovery	%	-	-	-
(D3-N-MeFOSAA) Isotopically Labelled Internal Recovery	%	-	-	-
(D5-N-EtFOSAA) Isotopically Labelled Internal Recovery	%	-	-	-

Moisture Content Method: AN002 Tested: 4/10/2022

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name ME329643.061 Soil 15 Sep 2022 SE237144.061	Sample Number Sample Matrix Sample Date Sample Name ME329643.062 Soil 16 Sep 2022 SE237144.062
Moisture Content Method: AN002 Tested: 4/10/2022 (continued)				
% Moisture	%w/w	1	-	-

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula : *the absolute difference of the two results divided by the average of the two results as a percentage.* Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

Moisture Content Method: ME-(AU)-[ENV]AN002

Parameter	QC Reference	Units	LOR	DUP %RPD
% Moisture	LB055475	%w/w	1	10%

Per- and Polyfluoroalkyl Substances (PFAS) in Solid Samples Method: MA-1523

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery
Perfluorobutanoic acid (PFBA)	LB055474	mg/kg	0.0016	<0.0016	0%	NA
Perfluoropentanoic acid (PFPeA)	LB055474	mg/kg	0.0016	<0.0016	0%	NA
Perfluorohexanoic acid (PFHxA)	LB055474	mg/kg	0.0016	<0.0016	0%	NA
Perfluoroheptanoic acid (PFHpA)	LB055474	mg/kg	0.0016	<0.0016	0%	89%
Perfluorooctanoic Acid (PFOA)	LB055474	mg/kg	0.0008	<0.0008	0%	112%
Perfluorononanoic acid (PFNA)	LB055474	mg/kg	0.0016	<0.0016	0%	125%
Perfluorodecanoic acid (PFDA)	LB055474	mg/kg	0.0016	<0.0016	0%	97%
Perfluoroundecanoic acid (PFUnA)	LB055474	mg/kg	0.0016	<0.0016	0%	125%
Perfluorododecanoic acid (PFDoA)	LB055474	mg/kg	0.0016	<0.0016	0%	127%
Perfluorotridecanoic acid (PFTrDA)	LB055474	mg/kg	0.0016	<0.0016	0%	100%
Perfluorotetradecanoic acid (PFTeDA)	LB055474	mg/kg	0.0016	<0.0016	0%	NA
Perfluorohexadecanoic acid (PFHxDA)	LB055474	mg/kg	0.0032	<0.0032	0%	NA
Perfluorobutane sulfonate (PFBS)	LB055474	mg/kg	0.0016	<0.0016	0%	NA
Perfluoropentane sulfonate (PFPeS)	LB055474	mg/kg	0.0016	<0.0016	0%	NA
Perfluorohexane sulfonate (PFHxS)	LB055474	mg/kg	0.0016	<0.0016	0%	NA
Perfluoroheptane sulfonate (PFHpS)	LB055474	mg/kg	0.0016	<0.0016	0%	NA
Perfluorooctane sulfonate (PFOS)	LB055474	mg/kg	0.0016	<0.0016	0%	133%
Sum PFOS and PFHXS	LB055474	mg/kg	0.0016	<0.0016	0%	NA
Perfluorononane sulfonate (PFNS)	LB055474	mg/kg	0.0016	<0.0016	0%	NA
Perfluorodecane sulfonate (PFDS)	LB055474	mg/kg	0.0016	<0.0016	0%	NA
Perfluorododecane sulfonate (PFDoS)	LB055474	mg/kg	0.0016	<0.0016	0%	NA
1H,1H,2H,2H-Perfluorohexane sulfonate (4:2) (4:2 FTS)	LB055474	mg/kg	0.0016	<0.0016	0%	NA
1H,1H,2H,2H-Perfluorooctane sulfonate (6:2) (6:2 FTS)	LB055474	mg/kg	0.0016	<0.0016	0%	NA
1H,1H,2H,2H-Perfluorodecane sulfonate (8:2) (8:2 FTS)	LB055474	mg/kg	0.0016	<0.0016	0%	NA
Perfluorooctane sulfonamide (PFOSA)	LB055474	mg/kg	0.0016	<0.0016	0%	49%
N-Methylperfluorooctane sulfonamide (N-MeFOSA)	LB055474	mg/kg	0.008	<0.008	0%	NA
N-Ethylperfluorooctane sulfonamide (N-EtFOSA)	LB055474	mg/kg	0.008	<0.008	0%	NA
2-(N-Methylperfluorooctane sulfonamido)-ethanol (N-MeFOSE)	LB055474	mg/kg	0.016	<0.016	0%	NA
2-(N-Ethylperfluorooctane sulfonamido)-ethanol (N-EtFOSE)	LB055474	mg/kg	0.016	<0.016	0%	NA
N-Methylperfluorooctanesulfonamidoacetic acid (N_MeFOSAA)	LB055474	mg/kg	0.008	<0.008	0%	NA
N-Ethylperfluorooctanesulfonamidoacetic Acid (N-EtFOSAA)	LB055474	mg/kg	0.008	<0.008	0%	NA
Total of PFAS (n=30)	LB055474	mg/kg	0.08	<0.08	0%	NA
(13C4-PFBA) Isotopically Labelled Internal Recovery Standard	LB055474	%	-	96%	1%	101%
(13C5-PFPeA) Isotopically Labelled Internal Recovery Standard	LB055474	%	-	92%	16%	105%
(13C5-PFHxA) Isotopically Labelled Internal Recovery Standard	LB055474	%	-	122%	9%	98%
(13C4-PFHpA) Isotopically Labelled Internal Recovery Standard	LB055474	%	-	86%	3%	98%
(13C4_PFOA) Isotopically Labelled Internal Recovery Standard	LB055474	%	-	97%	10%	94%
(13C9-PFNA) Isotopically Labelled Internal Recovery Standard	LB055474	%	-	85%	10%	115%
(13C6-PFDA) Isotopically Labelled Internal Recovery Standard	LB055474	%	-	83%	42%	138%
(13C7-PFUdA) Isotopically Labelled Internal Recovery Standard	LB055474	%	-	121%	9%	89%
(13C2-PFDoA) Isotopically Labelled Internal Recovery Standard	LB055474	%	-	112%	11%	67%
(13C2_PFTeDA) Isotopically Labelled Internal Recovery Standard	LB055474	%	-	70%	9%	40%
(13C2-PFHxDA) Isotopically Labelled Internal Recovery Standard	LB055474	%	-	44%	19%	15%
(13C3-PFBS) Isotopically Labelled Internal Recovery Standard	LB055474	%	-	121%	18%	102%
(13C3-PFHxS) Isotopically Labelled Internal Recovery Standard	LB055474	%	-	89%	6%	104%
(13C8-PFOS) Isotopically Labelled Internal Recovery Standard	LB055474	%	-	113%	44%	92%
(13C2-4:2 FTS) Isotopically Labelled Internal Recovery Standard	LB055474	%	-	64%	39%	60%
(13C2-6:2 FTS) Isotopically Labelled Internal Recovery Standard	LB055474	%	-	50%	12%	50%
(13C2-8:2 FTS) Isotopically Labelled Internal Recovery Standard	LB055474	%	-	44%	29%	49%
(13C8-PFOSA) Isotopically Labelled Internal Recovery Standard	LB055474	%	-	70%	63%	79%
(D3-N-MeFOSA) Isotopically Labelled Internal Recovery Standard	LB055474	%	-	76%	71%	60%

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula : *the absolute difference of the two results divided by the average of the two results as a percentage.* Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

Per- and Polyfluoroalkyl Substances (PFAS) in Solid Samples Method: MA-1523 (continued)

				MB	DUP %RPD	LCS %Recovery
(D5-N-EtFOSA) Isotopically Labelled Internal Recovery Standard	LB055474	%	-	57%	57%	51%
(D7-N-MeFOSE) Isotopically Labelled Internal Recovery Standard	LB055474	%	-	80%	60%	61%
(D9-N-EtFOSE) Isotopically Labelled Internal Recovery Standard	LB055474	%	-	71%	62%	57%
(D3-N-MeFOSAA) Isotopically Labelled Internal Recovery Standard	LB055474	%	-	80%	30%	60%
(D5-N-EtFOSAA) Isotopically Labelled Internal Recovery Standard	LB055474	%	-	79%	33%	75%

METHOD	METHODOLOGY SUMMARY
AN002	The test is carried out by drying (at either 40°C or 105°C) a known mass of sample in a weighed evaporating basin. After fully dry the sample is re-weighed. Samples such as sludge and sediment having high percentages of moisture will take some time in a drying oven for complete removal of water.
MA-1523	This method covers the analysis of per- and polyfluoroalkyl substances (PFAS) in aqueous, solid and biosolid samples and solvent extracts, determined as the total of linear and branched isomers. After spiking with isotopically labelled quantification surrogates and clean-up via SPE cartridges sample extracts are analysed by liquid chromatography/mass spectrometry (LC-MS/MS). PFAS concentrations are determined by isotope dilution quantification.

FOOTNOTES

IS	Insufficient sample for analysis.	LOR	Limit of Reporting
LNR	Sample listed, but not received.	↑↓	Raised or Lowered Limit of Reporting
*	NATA accreditation does not cover the performance of this service.	QFH	QC result is above the upper tolerance
		QFL	QC result is below the lower tolerance
**	Indicative data, theoretical holding time exceeded.	-	The sample was not analysed for this analyte
***	Indicates that both * and ** apply.	NVL	Not Validated

Unless it is reported that sampling has been performed by SGS, the samples have been analysed as received.
Solid samples expressed on a dry weight basis.

Where "Total" analyte groups are reported (for example, Total PAHs, Total OC Pesticides) the total will be calculated as the sum of the individual analytes, with those analytes that are reported as <LOR being assumed to be zero. The summed (Total) limit of reporting is calcuated by summing the individual analyte LORs and dividing by two. For example, where 16 individual analytes are being summed and each has an LOR of 0.1 mg/kg, the "Totals" LOR will be 1.6 / 2 (0.8 mg/kg). Where only 2 analytes are being summed, the " Total" LOR will be the sum of those two LORs.

Some totals may not appear to add up because the total is rounded after adding up the raw values.

If reported, measurement uncertainty follow the ± sign after the analytical result and is expressed as the expanded uncertainty calculated using a coverage factor of 2, providing a level of confidence of approximately 95%, unless stated otherwise in the comments section of this report.

Results reported for samples tested under test methods with codes starting with ARS-SOP, radionuclide or gross radioactivity concentrations are expressed in becquerel (Bq) per unit of mass or volume or per wipe as stated on the report. Becquerel is the SI unit for activity and equals one nuclear transformation per second.
Note that in terms of units of radioactivity:

a. 1 Bq is equivalent to 27 pCi
b. 37 MBq is equivalent to 1 mCi

For results reported for samples tested under test methods with codes starting with ARS-SOP, less than (<) values indicate the detection limit for each radionuclide or parameter for the measurement system used. The respective detection limits have been calculated in accordance with ISO 11929.

The QC and MU criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: www.sgs.com.au/en-gb/environment-health-and-safety.

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STATEMENT OF QA/QC PERFORMANCE

SE237144 R0

CLIENT DETAILS		LABORATORY DETAILS	
Contact	Chris Gunton	Manager	Huong Crawford
Client	LANTERRA CONSULTING PTY LTD	Laboratory	SGS Alexandria Environmental
Address	Unit 13, 71 Leichhardt Street Kingston ACT 2604	Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	0432 324 348	Telephone	+61 2 8594 0400
Facsimile	(Not specified)	Facsimile	+61 2 8594 0499
Email	chris@lanterra.com.au	Email	au.environmental.sydney@sgs.com
Project	**P22105-Cardno, Polo Flat Rd, Cooma**	SGS Reference	**SE237144 R0**
Order Number	**P22105**	Date Received	27 Sep 2022
Samples	62	Date Reported	06 Oct 2022

COMMENTS

All the laboratory data for each environmental matrix was compared to SGS' stated Data Quality Objectives (DQO). Comments arising from the comparison were made and are reported below.

The data relating to sampling was taken from the Chain of Custody document.
This QA/QC Statement must be read in conjunction with the referenced Analytical Report.
The Statement and the Analytical Report must not be reproduced except in full.

All Data Quality Objectives were met with the exception of the following:

Extraction Date	Moisture Content	39 items
	OC Pesticides in Soil	36 items
	OP Pesticides in Soil	36 items
	PAH (Polynuclear Aromatic Hydrocarbons) in Soil	39 items
	PCBs in Soil	36 items
	pH in soil (1:5)	2 items
	Speciated Phenols in Soil	36 items
	TRH (Total Recoverable Hydrocarbons) in Soil	39 items
	VOC's in Soil	39 items
	Volatile Petroleum Hydrocarbons in Soil	39 items
Analysis Date	Moisture Content	39 items
	VOC's in Soil	81 items
	Volatile Petroleum Hydrocarbons in Soil	131 items
Surrogate	OC Pesticides in Water	1 item

There are more than 15 quality objective exceedences. Please see report for details

SAMPLE SUMMARY

Samples clearly labelled	Yes	Complete documentation received	Yes
Sample container provider	SGS	Sample cooling method	Ice Bricks
Samples received in correct containers	Yes	Sample counts by matrix	61 Soil, 1 Water
Date documentation received	27/9/2022	Type of documentation received	COC
Samples received in good order	Yes	Samples received without headspace	Yes
Sample temperature upon receipt	14.2C	Sufficient sample for analysis	Yes
Turnaround time requested	Standard		

HOLDING TIME SUMMARY

SE237144 R0

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

Exchangeable Cations and Cation Exchange Capacity (CEC/ESP/SAR)

Method: ME-(AU)-[ENV]AN122

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP5 0.0-0.1	SE237144.025	LB260019	15 Sep 2022	27 Sep 2022	13 Oct 2022	06 Oct 2022	13 Oct 2022	06 Oct 2022
TP31 0.0-0.1	SE237144.049	LB260019	15 Sep 2022	27 Sep 2022	13 Oct 2022	06 Oct 2022	13 Oct 2022	06 Oct 2022

Mercury (dissolved) in Water

Method: ME-(AU)-[ENV]AN311(Perth)/AN312

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
SW1	SE237144.001	LB259392	23 Sep 2022	27 Sep 2022	21 Oct 2022	28 Sep 2022	21 Oct 2022	29 Sep 2022

Mercury in Soil

Method: ME-(AU)-[ENV]AN312

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
SS1	SE237144.002	LB259761	23 Sep 2022	27 Sep 2022	21 Oct 2022	04 Oct 2022	21 Oct 2022	06 Oct 2022
SS2	SE237144.003	LB259761	23 Sep 2022	27 Sep 2022	21 Oct 2022	04 Oct 2022	21 Oct 2022	06 Oct 2022
SS3	SE237144.004	LB259761	23 Sep 2022	27 Sep 2022	21 Oct 2022	04 Oct 2022	21 Oct 2022	06 Oct 2022
SS4	SE237144.005	LB259761	23 Sep 2022	27 Sep 2022	21 Oct 2022	04 Oct 2022	21 Oct 2022	06 Oct 2022
SS5	SE237144.006	LB259761	23 Sep 2022	27 Sep 2022	21 Oct 2022	04 Oct 2022	21 Oct 2022	06 Oct 2022
SS6	SE237144.007	LB259761	23 Sep 2022	27 Sep 2022	21 Oct 2022	04 Oct 2022	21 Oct 2022	06 Oct 2022
SS7	SE237144.008	LB259761	16 Sep 2022	27 Sep 2022	14 Oct 2022	04 Oct 2022	14 Oct 2022	06 Oct 2022
SS8	SE237144.009	LB259761	16 Sep 2022	27 Sep 2022	14 Oct 2022	04 Oct 2022	14 Oct 2022	06 Oct 2022
SS9	SE237144.010	LB259761	16 Sep 2022	27 Sep 2022	14 Oct 2022	04 Oct 2022	14 Oct 2022	06 Oct 2022
SA1 0.0-0.1	SE237144.011	LB259761	16 Sep 2022	27 Sep 2022	14 Oct 2022	04 Oct 2022	14 Oct 2022	06 Oct 2022
SA2 0.0-0.1	SE237144.012	LB259761	16 Sep 2022	27 Sep 2022	14 Oct 2022	04 Oct 2022	14 Oct 2022	06 Oct 2022
SA3 0.5-0.6	SE237144.013	LB259761	16 Sep 2022	27 Sep 2022	14 Oct 2022	04 Oct 2022	14 Oct 2022	06 Oct 2022
SA4 0.0-0.1	SE237144.014	LB259761	16 Sep 2022	27 Sep 2022	14 Oct 2022	04 Oct 2022	14 Oct 2022	06 Oct 2022
SA5 0.0-0.1	SE237144.015	LB259761	16 Sep 2022	27 Sep 2022	14 Oct 2022	04 Oct 2022	14 Oct 2022	06 Oct 2022
SA6 0.5-0.6	SE237144.016	LB259761	16 Sep 2022	27 Sep 2022	14 Oct 2022	04 Oct 2022	14 Oct 2022	06 Oct 2022
SA7 0.0-0.1	SE237144.017	LB259761	16 Sep 2022	27 Sep 2022	14 Oct 2022	04 Oct 2022	14 Oct 2022	06 Oct 2022
SA8 0.0-0.1	SE237144.018	LB259761	16 Sep 2022	27 Sep 2022	14 Oct 2022	04 Oct 2022	14 Oct 2022	06 Oct 2022
SA9 0.5-0.6	SE237144.019	LB259761	16 Sep 2022	27 Sep 2022	14 Oct 2022	04 Oct 2022	14 Oct 2022	06 Oct 2022
SA10 0.0-0.1	SE237144.020	LB259761	16 Sep 2022	27 Sep 2022	14 Oct 2022	04 Oct 2022	14 Oct 2022	06 Oct 2022
TP1 0.0-0.1	SE237144.021	LB259762	15 Sep 2022	27 Sep 2022	13 Oct 2022	04 Oct 2022	13 Oct 2022	06 Oct 2022
TP2 0.0-0.2	SE237144.022	LB259762	15 Sep 2022	27 Sep 2022	13 Oct 2022	04 Oct 2022	13 Oct 2022	06 Oct 2022
TP3 0.0-0.1	SE237144.023	LB259762	15 Sep 2022	27 Sep 2022	13 Oct 2022	04 Oct 2022	13 Oct 2022	06 Oct 2022
TP4 0.0-0.1	SE237144.024	LB259762	15 Sep 2022	27 Sep 2022	13 Oct 2022	04 Oct 2022	13 Oct 2022	06 Oct 2022
TP5 0.0-0.1	SE237144.025	LB259762	15 Sep 2022	27 Sep 2022	13 Oct 2022	04 Oct 2022	13 Oct 2022	06 Oct 2022
TP6 0.0-0.1	SE237144.026	LB259762	15 Sep 2022	27 Sep 2022	13 Oct 2022	04 Oct 2022	13 Oct 2022	06 Oct 2022
TP8 0.0-0.1	SE237144.027	LB259762	15 Sep 2022	27 Sep 2022	13 Oct 2022	04 Oct 2022	13 Oct 2022	06 Oct 2022
TP10 0.0-0.1	SE237144.028	LB259762	15 Sep 2022	27 Sep 2022	13 Oct 2022	04 Oct 2022	13 Oct 2022	06 Oct 2022
TP11 0.0-0.1	SE237144.029	LB259762	15 Sep 2022	27 Sep 2022	13 Oct 2022	04 Oct 2022	13 Oct 2022	06 Oct 2022
TP12 0.0-0.1	SE237144.030	LB259762	15 Sep 2022	27 Sep 2022	13 Oct 2022	04 Oct 2022	13 Oct 2022	06 Oct 2022
TP13 0.0-0.1	SE237144.031	LB259762	15 Sep 2022	27 Sep 2022	13 Oct 2022	04 Oct 2022	13 Oct 2022	06 Oct 2022
TP14 0.0-0.1	SE237144.032	LB259762	15 Sep 2022	27 Sep 2022	13 Oct 2022	04 Oct 2022	13 Oct 2022	06 Oct 2022
TP15 0.0-0.1	SE237144.033	LB259762	15 Sep 2022	27 Sep 2022	13 Oct 2022	04 Oct 2022	13 Oct 2022	06 Oct 2022
TP16 0.0-0.1	SE237144.034	LB259762	15 Sep 2022	27 Sep 2022	13 Oct 2022	04 Oct 2022	13 Oct 2022	06 Oct 2022
TP17 0.0-0.1	SE237144.035	LB259762	15 Sep 2022	27 Sep 2022	13 Oct 2022	04 Oct 2022	13 Oct 2022	06 Oct 2022
TP18 0.0-0.1	SE237144.036	LB259762	15 Sep 2022	27 Sep 2022	13 Oct 2022	04 Oct 2022	13 Oct 2022	06 Oct 2022
TP19 0.0-0.1	SE237144.037	LB259762	15 Sep 2022	27 Sep 2022	13 Oct 2022	04 Oct 2022	13 Oct 2022	06 Oct 2022
TP20 0.0-0.1	SE237144.038	LB259762	15 Sep 2022	27 Sep 2022	13 Oct 2022	04 Oct 2022	13 Oct 2022	06 Oct 2022
TP21 0.0-0.1	SE237144.039	LB259762	15 Sep 2022	27 Sep 2022	13 Oct 2022	04 Oct 2022	13 Oct 2022	06 Oct 2022
TP22 0.0-0.1	SE237144.040	LB259763	15 Sep 2022	27 Sep 2022	13 Oct 2022	04 Oct 2022	13 Oct 2022	06 Oct 2022
TP23 0.0-0.1	SE237144.041	LB259763	15 Sep 2022	27 Sep 2022	13 Oct 2022	04 Oct 2022	13 Oct 2022	06 Oct 2022
TP24 0.0-0.1	SE237144.042	LB259763	15 Sep 2022	27 Sep 2022	13 Oct 2022	04 Oct 2022	13 Oct 2022	06 Oct 2022
TP25 0.0-0.1	SE237144.043	LB259763	15 Sep 2022	27 Sep 2022	13 Oct 2022	04 Oct 2022	13 Oct 2022	06 Oct 2022
TP26 0.0-0.1	SE237144.044	LB259763	15 Sep 2022	27 Sep 2022	13 Oct 2022	04 Oct 2022	13 Oct 2022	06 Oct 2022
TP27 0.0-0.1	SE237144.045	LB259763	15 Sep 2022	27 Sep 2022	13 Oct 2022	04 Oct 2022	13 Oct 2022	06 Oct 2022
TP28 0.0-0.1	SE237144.046	LB259763	15 Sep 2022	27 Sep 2022	13 Oct 2022	04 Oct 2022	13 Oct 2022	06 Oct 2022
TP29 0.0-0.1	SE237144.047	LB259763	15 Sep 2022	27 Sep 2022	13 Oct 2022	04 Oct 2022	13 Oct 2022	06 Oct 2022
TP30 0.0-0.1	SE237144.048	LB259763	15 Sep 2022	27 Sep 2022	13 Oct 2022	04 Oct 2022	13 Oct 2022	06 Oct 2022
TP31 0.0-0.1	SE237144.049	LB259763	15 Sep 2022	27 Sep 2022	13 Oct 2022	04 Oct 2022	13 Oct 2022	06 Oct 2022
TP32 0.0-0.1	SE237144.050	LB259763	15 Sep 2022	27 Sep 2022	13 Oct 2022	04 Oct 2022	13 Oct 2022	06 Oct 2022
TP33 0.0-0.1	SE237144.051	LB259763	15 Sep 2022	27 Sep 2022	13 Oct 2022	04 Oct 2022	13 Oct 2022	06 Oct 2022
TP34 0.0-0.1	SE237144.052	LB259763	15 Sep 2022	27 Sep 2022	13 Oct 2022	04 Oct 2022	13 Oct 2022	06 Oct 2022

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

Mercury in Soil (continued) — **Method: ME-(AU)-[ENV]AN312**

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP35 0.0-0.1	SE237144.053	LB259763	15 Sep 2022	27 Sep 2022	13 Oct 2022	04 Oct 2022	13 Oct 2022	06 Oct 2022
TP36 0.0-0.1	SE237144.054	LB259763	15 Sep 2022	27 Sep 2022	13 Oct 2022	04 Oct 2022	13 Oct 2022	06 Oct 2022
TP37 0.0-0.1	SE237144.055	LB259763	15 Sep 2022	27 Sep 2022	13 Oct 2022	04 Oct 2022	13 Oct 2022	06 Oct 2022
TP38 0.0-0.1	SE237144.056	LB259763	15 Sep 2022	27 Sep 2022	13 Oct 2022	04 Oct 2022	13 Oct 2022	06 Oct 2022
TP39 0.0-0.1	SE237144.057	LB259763	16 Sep 2022	27 Sep 2022	14 Oct 2022	04 Oct 2022	14 Oct 2022	06 Oct 2022
TP40 0.0-0.1	SE237144.058	LB259763	16 Sep 2022	27 Sep 2022	14 Oct 2022	04 Oct 2022	14 Oct 2022	06 Oct 2022
QC1	SE237144.059	LB259764	14 Sep 2022	27 Sep 2022	12 Oct 2022	04 Oct 2022	12 Oct 2022	05 Oct 2022
QC3	SE237144.060	LB259764	15 Sep 2022	27 Sep 2022	13 Oct 2022	04 Oct 2022	13 Oct 2022	05 Oct 2022
QC5	SE237144.061	LB259764	15 Sep 2022	27 Sep 2022	13 Oct 2022	04 Oct 2022	13 Oct 2022	05 Oct 2022
QC7	SE237144.062	LB259764	16 Sep 2022	27 Sep 2022	14 Oct 2022	04 Oct 2022	14 Oct 2022	05 Oct 2022

Moisture Content — **Method: ME-(AU)-[ENV]AN002**

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
SS1	SE237144.002	LB259677	23 Sep 2022	27 Sep 2022	07 Oct 2022	30 Sep 2022	05 Oct 2022	06 Oct 2022†
SS2	SE237144.003	LB259677	23 Sep 2022	27 Sep 2022	07 Oct 2022	30 Sep 2022	05 Oct 2022	06 Oct 2022†
SS3	SE237144.004	LB259677	23 Sep 2022	27 Sep 2022	07 Oct 2022	30 Sep 2022	05 Oct 2022	06 Oct 2022†
SS4	SE237144.005	LB259677	23 Sep 2022	27 Sep 2022	07 Oct 2022	30 Sep 2022	05 Oct 2022	06 Oct 2022†
SS5	SE237144.006	LB259677	23 Sep 2022	27 Sep 2022	07 Oct 2022	30 Sep 2022	05 Oct 2022	06 Oct 2022†
SS6	SE237144.007	LB259677	23 Sep 2022	27 Sep 2022	07 Oct 2022	30 Sep 2022	05 Oct 2022	06 Oct 2022†
SS7	SE237144.008	LB259677	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	05 Oct 2022	06 Oct 2022†
SS8	SE237144.009	LB259677	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	05 Oct 2022	06 Oct 2022†
SS9	SE237144.010	LB259677	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	05 Oct 2022	06 Oct 2022†
SA1 0.0-0.1	SE237144.011	LB259677	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	05 Oct 2022	06 Oct 2022†
SA2 0.0-0.1	SE237144.012	LB259677	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	05 Oct 2022	06 Oct 2022†
SA3 0.5-0.6	SE237144.013	LB259677	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	05 Oct 2022	06 Oct 2022†
SA4 0.0-0.1	SE237144.014	LB259677	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	05 Oct 2022	06 Oct 2022†
SA5 0.0-0.1	SE237144.015	LB259677	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	05 Oct 2022	06 Oct 2022†
SA6 0.5-0.6	SE237144.016	LB259677	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	05 Oct 2022	06 Oct 2022†
SA7 0.0-0.1	SE237144.017	LB259677	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	05 Oct 2022	06 Oct 2022†
SA8 0.0-0.1	SE237144.018	LB259677	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	05 Oct 2022	06 Oct 2022†
SA9 0.5-0.6	SE237144.019	LB259677	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	05 Oct 2022	06 Oct 2022†
SA10 0.0-0.1	SE237144.020	LB259677	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	05 Oct 2022	06 Oct 2022†
TP1 0.0-0.1	SE237144.021	LB259678	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	05 Oct 2022	06 Oct 2022†
TP2 0.0-0.2	SE237144.022	LB259678	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	05 Oct 2022	06 Oct 2022†
TP3 0.0-0.1	SE237144.023	LB259678	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	05 Oct 2022	06 Oct 2022†
TP4 0.0-0.1	SE237144.024	LB259678	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	05 Oct 2022	06 Oct 2022†
TP5 0.0-0.1	SE237144.025	LB259678	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	05 Oct 2022	06 Oct 2022†
TP6 0.0-0.1	SE237144.026	LB259678	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	05 Oct 2022	06 Oct 2022†
TP8 0.0-0.1	SE237144.027	LB259678	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	05 Oct 2022	06 Oct 2022†
TP10 0.0-0.1	SE237144.028	LB259678	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	05 Oct 2022	06 Oct 2022†
TP11 0.0-0.1	SE237144.029	LB259678	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	05 Oct 2022	06 Oct 2022†
TP12 0.0-0.1	SE237144.030	LB259678	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	05 Oct 2022	06 Oct 2022†
TP13 0.0-0.1	SE237144.031	LB259678	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	05 Oct 2022	06 Oct 2022†
TP14 0.0-0.1	SE237144.032	LB259678	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	05 Oct 2022	06 Oct 2022†
TP15 0.0-0.1	SE237144.033	LB259678	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	05 Oct 2022	06 Oct 2022†
TP16 0.0-0.1	SE237144.034	LB259678	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	05 Oct 2022	06 Oct 2022†
TP17 0.0-0.1	SE237144.035	LB259678	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	05 Oct 2022	06 Oct 2022†
TP18 0.0-0.1	SE237144.036	LB259678	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	05 Oct 2022	06 Oct 2022†
TP19 0.0-0.1	SE237144.037	LB259678	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	05 Oct 2022	06 Oct 2022†
TP20 0.0-0.1	SE237144.038	LB259678	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	05 Oct 2022	06 Oct 2022†
TP21 0.0-0.1	SE237144.039	LB259678	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	05 Oct 2022	06 Oct 2022†
TP22 0.0-0.1	SE237144.040	LB259678	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	05 Oct 2022	06 Oct 2022†
TP23 0.0-0.1	SE237144.041	LB259679	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	05 Oct 2022	05 Oct 2022
TP24 0.0-0.1	SE237144.042	LB259679	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	05 Oct 2022	05 Oct 2022
TP25 0.0-0.1	SE237144.043	LB259679	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	05 Oct 2022	05 Oct 2022
TP26 0.0-0.1	SE237144.044	LB259679	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	05 Oct 2022	05 Oct 2022
TP27 0.0-0.1	SE237144.045	LB259679	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	05 Oct 2022	05 Oct 2022
TP28 0.0-0.1	SE237144.046	LB259679	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	05 Oct 2022	05 Oct 2022
TP29 0.0-0.1	SE237144.047	LB259679	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	05 Oct 2022	05 Oct 2022
TP30 0.0-0.1	SE237144.048	LB259679	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	05 Oct 2022	05 Oct 2022

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

Moisture Content (continued) — **Method: ME-(AU)-[ENV]AN002**

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP31 0.0-0.1	SE237144.049	LB259679	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	05 Oct 2022	05 Oct 2022
TP32 0.0-0.1	SE237144.050	LB259679	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	05 Oct 2022	05 Oct 2022
TP33 0.0-0.1	SE237144.051	LB259679	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	05 Oct 2022	05 Oct 2022
TP34 0.0-0.1	SE237144.052	LB259679	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	05 Oct 2022	05 Oct 2022
TP35 0.0-0.1	SE237144.053	LB259679	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	05 Oct 2022	05 Oct 2022
TP36 0.0-0.1	SE237144.054	LB259679	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	05 Oct 2022	05 Oct 2022
TP37 0.0-0.1	SE237144.055	LB259679	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	05 Oct 2022	05 Oct 2022
TP38 0.0-0.1	SE237144.056	LB259679	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	05 Oct 2022	05 Oct 2022
TP39 0.0-0.1	SE237144.057	LB259679	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	05 Oct 2022	05 Oct 2022
TP40 0.0-0.1	SE237144.058	LB259679	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	05 Oct 2022	05 Oct 2022
QC1	SE237144.059	LB259679	14 Sep 2022	27 Sep 2022	28 Sep 2022	30 Sep 2022†	05 Oct 2022	05 Oct 2022
QC3	SE237144.060	LB259679	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	05 Oct 2022	05 Oct 2022
QC5	SE237144.061	LB259679	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	05 Oct 2022	05 Oct 2022
QC7	SE237144.062	LB259679	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	05 Oct 2022	05 Oct 2022

OC Pesticides in Soil — **Method: ME-(AU)-[ENV]AN420**

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
SS1	SE237144.002	LB259640	23 Sep 2022	27 Sep 2022	07 Oct 2022	30 Sep 2022	09 Nov 2022	06 Oct 2022
SS2	SE237144.003	LB259640	23 Sep 2022	27 Sep 2022	07 Oct 2022	30 Sep 2022	09 Nov 2022	06 Oct 2022
SS3	SE237144.004	LB259640	23 Sep 2022	27 Sep 2022	07 Oct 2022	30 Sep 2022	09 Nov 2022	06 Oct 2022
SS4	SE237144.005	LB259640	23 Sep 2022	27 Sep 2022	07 Oct 2022	30 Sep 2022	09 Nov 2022	06 Oct 2022
SS5	SE237144.006	LB259640	23 Sep 2022	27 Sep 2022	07 Oct 2022	30 Sep 2022	09 Nov 2022	06 Oct 2022
SS6	SE237144.007	LB259640	23 Sep 2022	27 Sep 2022	07 Oct 2022	30 Sep 2022	09 Nov 2022	06 Oct 2022
SS7	SE237144.008	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	06 Oct 2022
SS8	SE237144.009	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	06 Oct 2022
SS9	SE237144.010	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	06 Oct 2022
SA1 0.0-0.1	SE237144.011	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	06 Oct 2022
SA2 0.0-0.1	SE237144.012	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	06 Oct 2022
SA3 0.5-0.6	SE237144.013	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	06 Oct 2022
SA4 0.0-0.1	SE237144.014	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	06 Oct 2022
SA5 0.0-0.1	SE237144.015	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	06 Oct 2022
SA6 0.5-0.6	SE237144.016	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	06 Oct 2022
SA7 0.0-0.1	SE237144.017	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	06 Oct 2022
SA8 0.0-0.1	SE237144.018	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	06 Oct 2022
SA9 0.5-0.6	SE237144.019	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	06 Oct 2022
SA10 0.0-0.1	SE237144.020	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	06 Oct 2022
TP1 0.0-0.1	SE237144.021	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP2 0.0-0.2	SE237144.022	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP3 0.0-0.1	SE237144.023	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP4 0.0-0.1	SE237144.024	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP5 0.0-0.1	SE237144.025	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP6 0.0-0.1	SE237144.026	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP8 0.0-0.1	SE237144.027	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP10 0.0-0.1	SE237144.028	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP11 0.0-0.1	SE237144.029	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP12 0.0-0.1	SE237144.030	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP13 0.0-0.1	SE237144.031	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP14 0.0-0.1	SE237144.032	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP15 0.0-0.1	SE237144.033	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP16 0.0-0.1	SE237144.034	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP17 0.0-0.1	SE237144.035	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP18 0.0-0.1	SE237144.036	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP19 0.0-0.1	SE237144.037	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP20 0.0-0.1	SE237144.038	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP21 0.0-0.1	SE237144.039	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP22 0.0-0.1	SE237144.040	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP23 0.0-0.1	SE237144.041	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP24 0.0-0.1	SE237144.042	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP25 0.0-0.1	SE237144.043	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP26 0.0-0.1	SE237144.044	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

OC Pesticides in Soil (continued) — Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP27 0.0-0.1	SE237144.045	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP28 0.0-0.1	SE237144.046	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP29 0.0-0.1	SE237144.047	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP30 0.0-0.1	SE237144.048	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP31 0.0-0.1	SE237144.049	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP32 0.0-0.1	SE237144.050	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP33 0.0-0.1	SE237144.051	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP34 0.0-0.1	SE237144.052	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP35 0.0-0.1	SE237144.053	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP36 0.0-0.1	SE237144.054	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP37 0.0-0.1	SE237144.055	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP38 0.0-0.1	SE237144.056	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP39 0.0-0.1	SE237144.057	LB259642	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
TP40 0.0-0.1	SE237144.058	LB259642	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
QC1	SE237144.059	LB259642	14 Sep 2022	27 Sep 2022	28 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
QC3	SE237144.060	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
QC5	SE237144.061	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
QC7	SE237144.062	LB259642	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	06 Oct 2022

OC Pesticides in Water — Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
SW1	SE237144.001	LB259608	23 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	04 Oct 2022

OP Pesticides in Soil — Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
SS1	SE237144.002	LB259640	23 Sep 2022	27 Sep 2022	07 Oct 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SS2	SE237144.003	LB259640	23 Sep 2022	27 Sep 2022	07 Oct 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SS3	SE237144.004	LB259640	23 Sep 2022	27 Sep 2022	07 Oct 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SS4	SE237144.005	LB259640	23 Sep 2022	27 Sep 2022	07 Oct 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SS5	SE237144.006	LB259640	23 Sep 2022	27 Sep 2022	07 Oct 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SS6	SE237144.007	LB259640	23 Sep 2022	27 Sep 2022	07 Oct 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SS7	SE237144.008	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SS8	SE237144.009	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SS9	SE237144.010	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SA1 0.0-0.1	SE237144.011	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SA2 0.0-0.1	SE237144.012	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SA3 0.5-0.6	SE237144.013	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SA4 0.0-0.1	SE237144.014	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SA5 0.0-0.1	SE237144.015	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SA6 0.5-0.6	SE237144.016	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SA7 0.0-0.1	SE237144.017	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SA8 0.0-0.1	SE237144.018	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SA9 0.5-0.6	SE237144.019	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SA10 0.0-0.1	SE237144.020	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
TP1 0.0-0.1	SE237144.021	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP2 0.0-0.2	SE237144.022	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP3 0.0-0.1	SE237144.023	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP4 0.0-0.1	SE237144.024	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP5 0.0-0.1	SE237144.025	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP6 0.0-0.1	SE237144.026	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP8 0.0-0.1	SE237144.027	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP10 0.0-0.1	SE237144.028	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP11 0.0-0.1	SE237144.029	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP12 0.0-0.1	SE237144.030	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP13 0.0-0.1	SE237144.031	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP14 0.0-0.1	SE237144.032	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP15 0.0-0.1	SE237144.033	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP16 0.0-0.1	SE237144.034	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP17 0.0-0.1	SE237144.035	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP18 0.0-0.1	SE237144.036	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

OP Pesticides in Soil (continued)

Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP19 0.0-0.1	SE237144.037	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP20 0.0-0.1	SE237144.038	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP21 0.0-0.1	SE237144.039	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP22 0.0-0.1	SE237144.040	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP23 0.0-0.1	SE237144.041	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP24 0.0-0.1	SE237144.042	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP25 0.0-0.1	SE237144.043	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP26 0.0-0.1	SE237144.044	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP27 0.0-0.1	SE237144.045	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP28 0.0-0.1	SE237144.046	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP29 0.0-0.1	SE237144.047	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP30 0.0-0.1	SE237144.048	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP31 0.0-0.1	SE237144.049	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP32 0.0-0.1	SE237144.050	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP33 0.0-0.1	SE237144.051	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP34 0.0-0.1	SE237144.052	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP35 0.0-0.1	SE237144.053	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP36 0.0-0.1	SE237144.054	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP37 0.0-0.1	SE237144.055	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP38 0.0-0.1	SE237144.056	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP39 0.0-0.1	SE237144.057	LB259642	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
TP40 0.0-0.1	SE237144.058	LB259642	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
QC1	SE237144.059	LB259642	14 Sep 2022	27 Sep 2022	28 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
QC3	SE237144.060	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
QC5	SE237144.061	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
QC7	SE237144.062	LB259642	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	06 Oct 2022

OP Pesticides in Water

Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
SW1	SE237144.001	LB259608	23 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	04 Oct 2022

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
SS1	SE237144.002	LB259640	23 Sep 2022	27 Sep 2022	07 Oct 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SS2	SE237144.003	LB259640	23 Sep 2022	27 Sep 2022	07 Oct 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SS3	SE237144.004	LB259640	23 Sep 2022	27 Sep 2022	07 Oct 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SS4	SE237144.005	LB259640	23 Sep 2022	27 Sep 2022	07 Oct 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SS5	SE237144.006	LB259640	23 Sep 2022	27 Sep 2022	07 Oct 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SS6	SE237144.007	LB259640	23 Sep 2022	27 Sep 2022	07 Oct 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SS7	SE237144.008	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SS8	SE237144.009	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SS9	SE237144.010	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SA1 0.0-0.1	SE237144.011	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SA2 0.0-0.1	SE237144.012	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SA3 0.5-0.6	SE237144.013	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SA4 0.0-0.1	SE237144.014	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SA5 0.0-0.1	SE237144.015	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SA6 0.5-0.6	SE237144.016	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SA7 0.0-0.1	SE237144.017	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SA8 0.0-0.1	SE237144.018	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SA9 0.5-0.6	SE237144.019	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SA10 0.0-0.1	SE237144.020	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
TP1 0.0-0.1	SE237144.021	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP2 0.0-0.2	SE237144.022	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP3 0.0-0.1	SE237144.023	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP4 0.0-0.1	SE237144.024	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP5 0.0-0.1	SE237144.025	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP6 0.0-0.1	SE237144.026	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP8 0.0-0.1	SE237144.027	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP10 0.0-0.1	SE237144.028	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued) — Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP11 0.0-0.1	SE237144.029	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP12 0.0-0.1	SE237144.030	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP13 0.0-0.1	SE237144.031	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP14 0.0-0.1	SE237144.032	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP15 0.0-0.1	SE237144.033	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP16 0.0-0.1	SE237144.034	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP17 0.0-0.1	SE237144.035	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP18 0.0-0.1	SE237144.036	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP19 0.0-0.1	SE237144.037	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP20 0.0-0.1	SE237144.038	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP21 0.0-0.1	SE237144.039	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP22 0.0-0.1	SE237144.040	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP23 0.0-0.1	SE237144.041	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP24 0.0-0.1	SE237144.042	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP25 0.0-0.1	SE237144.043	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP26 0.0-0.1	SE237144.044	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP27 0.0-0.1	SE237144.045	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP28 0.0-0.1	SE237144.046	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP29 0.0-0.1	SE237144.047	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP30 0.0-0.1	SE237144.048	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP31 0.0-0.1	SE237144.049	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP32 0.0-0.1	SE237144.050	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP33 0.0-0.1	SE237144.051	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP34 0.0-0.1	SE237144.052	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP35 0.0-0.1	SE237144.053	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP36 0.0-0.1	SE237144.054	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP37 0.0-0.1	SE237144.055	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP38 0.0-0.1	SE237144.056	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP39 0.0-0.1	SE237144.057	LB259642	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
TP40 0.0-0.1	SE237144.058	LB259642	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
QC1	SE237144.059	LB259642	14 Sep 2022	27 Sep 2022	28 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
QC3	SE237144.060	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
QC5	SE237144.061	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
QC7	SE237144.062	LB259642	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022

PAH (Polynuclear Aromatic Hydrocarbons) in Water — Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
SW1	SE237144.001	LB259608	23 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	04 Oct 2022

PCBs in Soil — Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
SS1	SE237144.002	LB259640	23 Sep 2022	27 Sep 2022	07 Oct 2022	30 Sep 2022	09 Nov 2022	06 Oct 2022
SS2	SE237144.003	LB259640	23 Sep 2022	27 Sep 2022	07 Oct 2022	30 Sep 2022	09 Nov 2022	06 Oct 2022
SS3	SE237144.004	LB259640	23 Sep 2022	27 Sep 2022	07 Oct 2022	30 Sep 2022	09 Nov 2022	06 Oct 2022
SS4	SE237144.005	LB259640	23 Sep 2022	27 Sep 2022	07 Oct 2022	30 Sep 2022	09 Nov 2022	06 Oct 2022
SS5	SE237144.006	LB259640	23 Sep 2022	27 Sep 2022	07 Oct 2022	30 Sep 2022	09 Nov 2022	06 Oct 2022
SS6	SE237144.007	LB259640	23 Sep 2022	27 Sep 2022	07 Oct 2022	30 Sep 2022	09 Nov 2022	06 Oct 2022
SS7	SE237144.008	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	06 Oct 2022
SS8	SE237144.009	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	06 Oct 2022
SS9	SE237144.010	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	06 Oct 2022
SA1 0.0-0.1	SE237144.011	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	06 Oct 2022
SA2 0.0-0.1	SE237144.012	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	06 Oct 2022
SA3 0.5-0.6	SE237144.013	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	06 Oct 2022
SA4 0.0-0.1	SE237144.014	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	06 Oct 2022
SA5 0.0-0.1	SE237144.015	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	06 Oct 2022
SA6 0.5-0.6	SE237144.016	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	06 Oct 2022
SA7 0.0-0.1	SE237144.017	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	06 Oct 2022
SA8 0.0-0.1	SE237144.018	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	06 Oct 2022
SA9 0.5-0.6	SE237144.019	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	06 Oct 2022
SA10 0.0-0.1	SE237144.020	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	06 Oct 2022

HOLDING TIME SUMMARY

SE237144 R0

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

PCBs in Soil (continued)

Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP1 0.0-0.1	SE237144.021	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP2 0.0-0.2	SE237144.022	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP3 0.0-0.1	SE237144.023	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP4 0.0-0.1	SE237144.024	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP5 0.0-0.1	SE237144.025	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP6 0.0-0.1	SE237144.026	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP8 0.0-0.1	SE237144.027	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP10 0.0-0.1	SE237144.028	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP11 0.0-0.1	SE237144.029	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP12 0.0-0.1	SE237144.030	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP13 0.0-0.1	SE237144.031	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP14 0.0-0.1	SE237144.032	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP15 0.0-0.1	SE237144.033	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP16 0.0-0.1	SE237144.034	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP17 0.0-0.1	SE237144.035	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP18 0.0-0.1	SE237144.036	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP19 0.0-0.1	SE237144.037	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP20 0.0-0.1	SE237144.038	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP21 0.0-0.1	SE237144.039	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP22 0.0-0.1	SE237144.040	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP23 0.0-0.1	SE237144.041	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP24 0.0-0.1	SE237144.042	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP25 0.0-0.1	SE237144.043	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP26 0.0-0.1	SE237144.044	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP27 0.0-0.1	SE237144.045	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP28 0.0-0.1	SE237144.046	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP29 0.0-0.1	SE237144.047	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP30 0.0-0.1	SE237144.048	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP31 0.0-0.1	SE237144.049	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP32 0.0-0.1	SE237144.050	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP33 0.0-0.1	SE237144.051	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP34 0.0-0.1	SE237144.052	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP35 0.0-0.1	SE237144.053	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP36 0.0-0.1	SE237144.054	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP37 0.0-0.1	SE237144.055	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP38 0.0-0.1	SE237144.056	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP39 0.0-0.1	SE237144.057	LB259642	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
TP40 0.0-0.1	SE237144.058	LB259642	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
QC1	SE237144.059	LB259642	14 Sep 2022	27 Sep 2022	28 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
QC3	SE237144.060	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
QC5	SE237144.061	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
QC7	SE237144.062	LB259642	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	06 Oct 2022

PCBs in Water

Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
SW1	SE237144.001	LB259608	23 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	04 Oct 2022

pH in soil (1:5)

Method: ME-(AU)-[ENV]AN101

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP5 0.0-0.1	SE237144.025	LB259572	15 Sep 2022	27 Sep 2022	22 Sep 2022	29 Sep 2022†	30 Sep 2022	30 Sep 2022
TP31 0.0-0.1	SE237144.049	LB259572	15 Sep 2022	27 Sep 2022	22 Sep 2022	29 Sep 2022†	30 Sep 2022	30 Sep 2022

Speciated Phenols in Soil

Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
SS1	SE237144.002	LB259640	23 Sep 2022	27 Sep 2022	07 Oct 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SS2	SE237144.003	LB259640	23 Sep 2022	27 Sep 2022	07 Oct 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SS3	SE237144.004	LB259640	23 Sep 2022	27 Sep 2022	07 Oct 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SS4	SE237144.005	LB259640	23 Sep 2022	27 Sep 2022	07 Oct 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SS5	SE237144.006	LB259640	23 Sep 2022	27 Sep 2022	07 Oct 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SS6	SE237144.007	LB259640	23 Sep 2022	27 Sep 2022	07 Oct 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

Speciated Phenols in Soil (continued) — **Method: ME-(AU)-[ENV]AN420**

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
SS7	SE237144.008	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SS8	SE237144.009	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SS9	SE237144.010	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SA1 0.0-0.1	SE237144.011	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SA2 0.0-0.1	SE237144.012	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SA3 0.5-0.6	SE237144.013	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SA4 0.0-0.1	SE237144.014	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SA5 0.0-0.1	SE237144.015	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SA6 0.5-0.6	SE237144.016	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SA7 0.0-0.1	SE237144.017	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SA8 0.0-0.1	SE237144.018	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SA9 0.5-0.6	SE237144.019	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SA10 0.0-0.1	SE237144.020	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
TP1 0.0-0.1	SE237144.021	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP2 0.0-0.2	SE237144.022	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP3 0.0-0.1	SE237144.023	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP4 0.0-0.1	SE237144.024	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP5 0.0-0.1	SE237144.025	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP6 0.0-0.1	SE237144.026	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP8 0.0-0.1	SE237144.027	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP10 0.0-0.1	SE237144.028	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP11 0.0-0.1	SE237144.029	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP12 0.0-0.1	SE237144.030	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP13 0.0-0.1	SE237144.031	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP14 0.0-0.1	SE237144.032	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP15 0.0-0.1	SE237144.033	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP16 0.0-0.1	SE237144.034	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP17 0.0-0.1	SE237144.035	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP18 0.0-0.1	SE237144.036	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP19 0.0-0.1	SE237144.037	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP20 0.0-0.1	SE237144.038	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP21 0.0-0.1	SE237144.039	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP22 0.0-0.1	SE237144.040	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP23 0.0-0.1	SE237144.041	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP24 0.0-0.1	SE237144.042	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP25 0.0-0.1	SE237144.043	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP26 0.0-0.1	SE237144.044	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP27 0.0-0.1	SE237144.045	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP28 0.0-0.1	SE237144.046	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP29 0.0-0.1	SE237144.047	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP30 0.0-0.1	SE237144.048	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP31 0.0-0.1	SE237144.049	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP32 0.0-0.1	SE237144.050	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP33 0.0-0.1	SE237144.051	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP34 0.0-0.1	SE237144.052	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP35 0.0-0.1	SE237144.053	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP36 0.0-0.1	SE237144.054	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP37 0.0-0.1	SE237144.055	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP38 0.0-0.1	SE237144.056	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP39 0.0-0.1	SE237144.057	LB259642	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	06 Oct 2022
TP40 0.0-0.1	SE237144.058	LB259642	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	06 Oct 2022
QC1	SE237144.059	LB259642	14 Sep 2022	27 Sep 2022	28 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
QC3	SE237144.060	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
QC5	SE237144.061	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
QC7	SE237144.062	LB259642	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	06 Oct 2022

Speciated Phenols in Water — **Method: ME-(AU)-[ENV]AN420**

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
SW1	SE237144.001	LB259608	23 Sep 2022	27 Sep 2022	14 Oct 2022	30 Sep 2022	09 Nov 2022	04 Oct 2022

HOLDING TIME SUMMARY

SE237144 R0

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES — **Method: ME-(AU)-[ENV]AN040/AN320**

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
SS1	SE237144.002	LB259756	23 Sep 2022	27 Sep 2022	22 Mar 2023	04 Oct 2022	22 Mar 2023	06 Oct 2022
SS2	SE237144.003	LB259756	23 Sep 2022	27 Sep 2022	22 Mar 2023	04 Oct 2022	22 Mar 2023	06 Oct 2022
SS3	SE237144.004	LB259756	23 Sep 2022	27 Sep 2022	22 Mar 2023	04 Oct 2022	22 Mar 2023	06 Oct 2022
SS4	SE237144.005	LB259756	23 Sep 2022	27 Sep 2022	22 Mar 2023	04 Oct 2022	22 Mar 2023	06 Oct 2022
SS5	SE237144.006	LB259756	23 Sep 2022	27 Sep 2022	22 Mar 2023	04 Oct 2022	22 Mar 2023	06 Oct 2022
SS6	SE237144.007	LB259756	23 Sep 2022	27 Sep 2022	22 Mar 2023	04 Oct 2022	22 Mar 2023	06 Oct 2022
SS7	SE237144.008	LB259756	16 Sep 2022	27 Sep 2022	15 Mar 2023	04 Oct 2022	15 Mar 2023	06 Oct 2022
SS8	SE237144.009	LB259756	16 Sep 2022	27 Sep 2022	15 Mar 2023	04 Oct 2022	15 Mar 2023	06 Oct 2022
SS9	SE237144.010	LB259756	16 Sep 2022	27 Sep 2022	15 Mar 2023	04 Oct 2022	15 Mar 2023	06 Oct 2022
SA1 0.0-0.1	SE237144.011	LB259756	16 Sep 2022	27 Sep 2022	15 Mar 2023	04 Oct 2022	15 Mar 2023	06 Oct 2022
SA2 0.0-0.1	SE237144.012	LB259756	16 Sep 2022	27 Sep 2022	15 Mar 2023	04 Oct 2022	15 Mar 2023	06 Oct 2022
SA3 0.5-0.6	SE237144.013	LB259756	16 Sep 2022	27 Sep 2022	15 Mar 2023	04 Oct 2022	15 Mar 2023	06 Oct 2022
SA4 0.0-0.1	SE237144.014	LB259756	16 Sep 2022	27 Sep 2022	15 Mar 2023	04 Oct 2022	15 Mar 2023	06 Oct 2022
SA5 0.0-0.1	SE237144.015	LB259756	16 Sep 2022	27 Sep 2022	15 Mar 2023	04 Oct 2022	15 Mar 2023	06 Oct 2022
SA6 0.5-0.6	SE237144.016	LB259756	16 Sep 2022	27 Sep 2022	15 Mar 2023	04 Oct 2022	15 Mar 2023	06 Oct 2022
SA7 0.0-0.1	SE237144.017	LB259756	16 Sep 2022	27 Sep 2022	15 Mar 2023	04 Oct 2022	15 Mar 2023	06 Oct 2022
SA8 0.0-0.1	SE237144.018	LB259756	16 Sep 2022	27 Sep 2022	15 Mar 2023	04 Oct 2022	15 Mar 2023	06 Oct 2022
SA9 0.5-0.6	SE237144.019	LB259756	16 Sep 2022	27 Sep 2022	15 Mar 2023	04 Oct 2022	15 Mar 2023	06 Oct 2022
SA10 0.0-0.1	SE237144.020	LB259756	16 Sep 2022	27 Sep 2022	15 Mar 2023	04 Oct 2022	15 Mar 2023	06 Oct 2022
TP1 0.0-0.1	SE237144.021	LB259757	15 Sep 2022	27 Sep 2022	14 Mar 2023	04 Oct 2022	14 Mar 2023	06 Oct 2022
TP2 0.0-0.2	SE237144.022	LB259757	15 Sep 2022	27 Sep 2022	14 Mar 2023	04 Oct 2022	14 Mar 2023	06 Oct 2022
TP3 0.0-0.1	SE237144.023	LB259757	15 Sep 2022	27 Sep 2022	14 Mar 2023	04 Oct 2022	14 Mar 2023	06 Oct 2022
TP4 0.0-0.1	SE237144.024	LB259757	15 Sep 2022	27 Sep 2022	14 Mar 2023	04 Oct 2022	14 Mar 2023	06 Oct 2022
TP5 0.0-0.1	SE237144.025	LB259757	15 Sep 2022	27 Sep 2022	14 Mar 2023	04 Oct 2022	14 Mar 2023	06 Oct 2022
TP6 0.0-0.1	SE237144.026	LB259757	15 Sep 2022	27 Sep 2022	14 Mar 2023	04 Oct 2022	14 Mar 2023	06 Oct 2022
TP8 0.0-0.1	SE237144.027	LB259757	15 Sep 2022	27 Sep 2022	14 Mar 2023	04 Oct 2022	14 Mar 2023	06 Oct 2022
TP10 0.0-0.1	SE237144.028	LB259757	15 Sep 2022	27 Sep 2022	14 Mar 2023	04 Oct 2022	14 Mar 2023	06 Oct 2022
TP11 0.0-0.1	SE237144.029	LB259757	15 Sep 2022	27 Sep 2022	14 Mar 2023	04 Oct 2022	14 Mar 2023	06 Oct 2022
TP12 0.0-0.1	SE237144.030	LB259757	15 Sep 2022	27 Sep 2022	14 Mar 2023	04 Oct 2022	14 Mar 2023	06 Oct 2022
TP13 0.0-0.1	SE237144.031	LB259757	15 Sep 2022	27 Sep 2022	14 Mar 2023	04 Oct 2022	14 Mar 2023	06 Oct 2022
TP14 0.0-0.1	SE237144.032	LB259757	15 Sep 2022	27 Sep 2022	14 Mar 2023	04 Oct 2022	14 Mar 2023	06 Oct 2022
TP15 0.0-0.1	SE237144.033	LB259757	15 Sep 2022	27 Sep 2022	14 Mar 2023	04 Oct 2022	14 Mar 2023	06 Oct 2022
TP16 0.0-0.1	SE237144.034	LB259757	15 Sep 2022	27 Sep 2022	14 Mar 2023	04 Oct 2022	14 Mar 2023	06 Oct 2022
TP17 0.0-0.1	SE237144.035	LB259757	15 Sep 2022	27 Sep 2022	14 Mar 2023	04 Oct 2022	14 Mar 2023	06 Oct 2022
TP18 0.0-0.1	SE237144.036	LB259757	15 Sep 2022	27 Sep 2022	14 Mar 2023	04 Oct 2022	14 Mar 2023	06 Oct 2022
TP19 0.0-0.1	SE237144.037	LB259757	15 Sep 2022	27 Sep 2022	14 Mar 2023	04 Oct 2022	14 Mar 2023	06 Oct 2022
TP20 0.0-0.1	SE237144.038	LB259757	15 Sep 2022	27 Sep 2022	14 Mar 2023	04 Oct 2022	14 Mar 2023	06 Oct 2022
TP21 0.0-0.1	SE237144.039	LB259757	15 Sep 2022	27 Sep 2022	14 Mar 2023	04 Oct 2022	14 Mar 2023	06 Oct 2022
TP22 0.0-0.1	SE237144.040	LB259758	15 Sep 2022	27 Sep 2022	14 Mar 2023	04 Oct 2022	14 Mar 2023	06 Oct 2022
TP23 0.0-0.1	SE237144.041	LB259758	15 Sep 2022	27 Sep 2022	14 Mar 2023	04 Oct 2022	14 Mar 2023	06 Oct 2022
TP24 0.0-0.1	SE237144.042	LB259758	15 Sep 2022	27 Sep 2022	14 Mar 2023	04 Oct 2022	14 Mar 2023	06 Oct 2022
TP25 0.0-0.1	SE237144.043	LB259758	15 Sep 2022	27 Sep 2022	14 Mar 2023	04 Oct 2022	14 Mar 2023	06 Oct 2022
TP26 0.0-0.1	SE237144.044	LB259758	15 Sep 2022	27 Sep 2022	14 Mar 2023	04 Oct 2022	14 Mar 2023	06 Oct 2022
TP27 0.0-0.1	SE237144.045	LB259758	15 Sep 2022	27 Sep 2022	14 Mar 2023	04 Oct 2022	14 Mar 2023	06 Oct 2022
TP28 0.0-0.1	SE237144.046	LB259758	15 Sep 2022	27 Sep 2022	14 Mar 2023	04 Oct 2022	14 Mar 2023	06 Oct 2022
TP29 0.0-0.1	SE237144.047	LB259758	15 Sep 2022	27 Sep 2022	14 Mar 2023	04 Oct 2022	14 Mar 2023	06 Oct 2022
TP30 0.0-0.1	SE237144.048	LB259758	15 Sep 2022	27 Sep 2022	14 Mar 2023	04 Oct 2022	14 Mar 2023	06 Oct 2022
TP31 0.0-0.1	SE237144.049	LB259758	15 Sep 2022	27 Sep 2022	14 Mar 2023	04 Oct 2022	14 Mar 2023	06 Oct 2022
TP32 0.0-0.1	SE237144.050	LB259758	15 Sep 2022	27 Sep 2022	14 Mar 2023	04 Oct 2022	14 Mar 2023	06 Oct 2022
TP33 0.0-0.1	SE237144.051	LB259758	15 Sep 2022	27 Sep 2022	14 Mar 2023	04 Oct 2022	14 Mar 2023	06 Oct 2022
TP34 0.0-0.1	SE237144.052	LB259758	15 Sep 2022	27 Sep 2022	14 Mar 2023	04 Oct 2022	14 Mar 2023	06 Oct 2022
TP35 0.0-0.1	SE237144.053	LB259758	15 Sep 2022	27 Sep 2022	14 Mar 2023	04 Oct 2022	14 Mar 2023	06 Oct 2022
TP36 0.0-0.1	SE237144.054	LB259758	15 Sep 2022	27 Sep 2022	14 Mar 2023	04 Oct 2022	14 Mar 2023	06 Oct 2022
TP37 0.0-0.1	SE237144.055	LB259758	15 Sep 2022	27 Sep 2022	14 Mar 2023	04 Oct 2022	14 Mar 2023	06 Oct 2022
TP38 0.0-0.1	SE237144.056	LB259758	15 Sep 2022	27 Sep 2022	14 Mar 2023	04 Oct 2022	14 Mar 2023	06 Oct 2022
TP39 0.0-0.1	SE237144.057	LB259758	16 Sep 2022	27 Sep 2022	15 Mar 2023	04 Oct 2022	15 Mar 2023	06 Oct 2022
TP40 0.0-0.1	SE237144.058	LB259758	16 Sep 2022	27 Sep 2022	15 Mar 2023	04 Oct 2022	15 Mar 2023	06 Oct 2022
QC1	SE237144.059	LB259760	14 Sep 2022	27 Sep 2022	13 Mar 2023	04 Oct 2022	13 Mar 2023	05 Oct 2022
QC3	SE237144.060	LB259760	15 Sep 2022	27 Sep 2022	14 Mar 2023	04 Oct 2022	14 Mar 2023	05 Oct 2022
QC5	SE237144.061	LB259760	15 Sep 2022	27 Sep 2022	14 Mar 2023	04 Oct 2022	14 Mar 2023	05 Oct 2022

HOLDING TIME SUMMARY

SE237144 R0

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES (continued) — Method: ME-(AU)-[ENV]AN040/AN320

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
QC7	SE237144.062	LB259760	16 Sep 2022	27 Sep 2022	15 Mar 2023	04 Oct 2022	15 Mar 2023	05 Oct 2022

Trace Metals (Dissolved) in Water by ICPMS — Method: ME-(AU)-[ENV]AN318

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
SW1	SE237144.001	LB259733	23 Sep 2022	27 Sep 2022	22 Mar 2023	04 Oct 2022	22 Mar 2023	05 Oct 2022

TRH (Total Recoverable Hydrocarbons) in Soil — Method: ME-(AU)-[ENV]AN403

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
SS1	SE237144.002	LB259640	23 Sep 2022	27 Sep 2022	07 Oct 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SS2	SE237144.003	LB259640	23 Sep 2022	27 Sep 2022	07 Oct 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SS3	SE237144.004	LB259640	23 Sep 2022	27 Sep 2022	07 Oct 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SS4	SE237144.005	LB259640	23 Sep 2022	27 Sep 2022	07 Oct 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SS5	SE237144.006	LB259640	23 Sep 2022	27 Sep 2022	07 Oct 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SS6	SE237144.007	LB259640	23 Sep 2022	27 Sep 2022	07 Oct 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SS7	SE237144.008	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SS8	SE237144.009	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SS9	SE237144.010	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SA1 0.0-0.1	SE237144.011	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SA2 0.0-0.1	SE237144.012	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SA3 0.5-0.6	SE237144.013	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SA4 0.0-0.1	SE237144.014	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SA5 0.0-0.1	SE237144.015	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SA6 0.5-0.6	SE237144.016	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SA7 0.0-0.1	SE237144.017	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SA8 0.0-0.1	SE237144.018	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SA9 0.5-0.6	SE237144.019	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
SA10 0.0-0.1	SE237144.020	LB259640	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
TP1 0.0-0.1	SE237144.021	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP2 0.0-0.2	SE237144.022	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP3 0.0-0.1	SE237144.023	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP4 0.0-0.1	SE237144.024	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP5 0.0-0.1	SE237144.025	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP6 0.0-0.1	SE237144.026	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP8 0.0-0.1	SE237144.027	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP10 0.0-0.1	SE237144.028	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP11 0.0-0.1	SE237144.029	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP12 0.0-0.1	SE237144.030	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP13 0.0-0.1	SE237144.031	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP14 0.0-0.1	SE237144.032	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP15 0.0-0.1	SE237144.033	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP16 0.0-0.1	SE237144.034	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP17 0.0-0.1	SE237144.035	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP18 0.0-0.1	SE237144.036	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP19 0.0-0.1	SE237144.037	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP20 0.0-0.1	SE237144.038	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP21 0.0-0.1	SE237144.039	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP22 0.0-0.1	SE237144.040	LB259641	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
TP23 0.0-0.1	SE237144.041	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP24 0.0-0.1	SE237144.042	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP25 0.0-0.1	SE237144.043	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP26 0.0-0.1	SE237144.044	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP27 0.0-0.1	SE237144.045	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP28 0.0-0.1	SE237144.046	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP29 0.0-0.1	SE237144.047	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP30 0.0-0.1	SE237144.048	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP31 0.0-0.1	SE237144.049	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP32 0.0-0.1	SE237144.050	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP33 0.0-0.1	SE237144.051	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP34 0.0-0.1	SE237144.052	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP35 0.0-0.1	SE237144.053	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022

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Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

TRH (Total Recoverable Hydrocarbons) in Soil (continued) — Method: ME-(AU)-[ENV]AN403

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP36 0.0-0.1	SE237144.054	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP37 0.0-0.1	SE237144.055	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP38 0.0-0.1	SE237144.056	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
TP39 0.0-0.1	SE237144.057	LB259642	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
TP40 0.0-0.1	SE237144.058	LB259642	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022
QC1	SE237144.059	LB259642	14 Sep 2022	27 Sep 2022	28 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
QC3	SE237144.060	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	05 Oct 2022
QC5	SE237144.061	LB259642	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	09 Nov 2022	06 Oct 2022
QC7	SE237144.062	LB259642	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	05 Oct 2022

TRH (Total Recoverable Hydrocarbons) in Water — Method: ME-(AU)-[ENV]AN403

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
SW1	SE237144.001	LB259608	23 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	09 Nov 2022	04 Oct 2022

VOC's in Soil — Method: ME-(AU)-[ENV]AN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
SS1	SE237144.002	LB259664	23 Sep 2022	27 Sep 2022	07 Oct 2022	30 Sep 2022	07 Oct 2022	05 Oct 2022
SS2	SE237144.003	LB259664	23 Sep 2022	27 Sep 2022	07 Oct 2022	30 Sep 2022	07 Oct 2022	05 Oct 2022
SS3	SE237144.004	LB259664	23 Sep 2022	27 Sep 2022	07 Oct 2022	30 Sep 2022	07 Oct 2022	05 Oct 2022
SS4	SE237144.005	LB259664	23 Sep 2022	27 Sep 2022	07 Oct 2022	30 Sep 2022	07 Oct 2022	05 Oct 2022
SS5	SE237144.006	LB259664	23 Sep 2022	27 Sep 2022	07 Oct 2022	30 Sep 2022	07 Oct 2022	05 Oct 2022
SS6	SE237144.007	LB259664	23 Sep 2022	27 Sep 2022	07 Oct 2022	30 Sep 2022	07 Oct 2022	05 Oct 2022
SS7	SE237144.008	LB259664	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	30 Sep 2022	05 Oct 2022†
SS8	SE237144.009	LB259664	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	30 Sep 2022	05 Oct 2022†
SS9	SE237144.010	LB259664	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	30 Sep 2022	05 Oct 2022†
SA1 0.0-0.1	SE237144.011	LB259664	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	30 Sep 2022	05 Oct 2022†
SA2 0.0-0.1	SE237144.012	LB259664	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	30 Sep 2022	05 Oct 2022†
SA3 0.5-0.6	SE237144.013	LB259664	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	30 Sep 2022	05 Oct 2022†
SA4 0.0-0.1	SE237144.014	LB259664	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	30 Sep 2022	05 Oct 2022†
SA5 0.0-0.1	SE237144.015	LB259664	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	30 Sep 2022	05 Oct 2022†
SA6 0.5-0.6	SE237144.016	LB259664	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	30 Sep 2022	05 Oct 2022†
SA7 0.0-0.1	SE237144.017	LB259664	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	30 Sep 2022	05 Oct 2022†
SA8 0.0-0.1	SE237144.018	LB259664	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	30 Sep 2022	05 Oct 2022†
SA9 0.5-0.6	SE237144.019	LB259664	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	30 Sep 2022	05 Oct 2022†
SA10 0.0-0.1	SE237144.020	LB259664	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	30 Sep 2022	05 Oct 2022†
TP1 0.0-0.1	SE237144.021	LB259665	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	06 Oct 2022†
TP2 0.0-0.2	SE237144.022	LB259665	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	06 Oct 2022†
TP3 0.0-0.1	SE237144.023	LB259665	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	06 Oct 2022†
TP4 0.0-0.1	SE237144.024	LB259665	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	06 Oct 2022†
TP5 0.0-0.1	SE237144.025	LB259665	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	06 Oct 2022†
TP6 0.0-0.1	SE237144.026	LB259665	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	06 Oct 2022†
TP8 0.0-0.1	SE237144.027	LB259665	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	06 Oct 2022†
TP10 0.0-0.1	SE237144.028	LB259665	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	06 Oct 2022†
TP11 0.0-0.1	SE237144.029	LB259665	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	06 Oct 2022†
TP12 0.0-0.1	SE237144.030	LB259665	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	06 Oct 2022†
TP13 0.0-0.1	SE237144.031	LB259665	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	06 Oct 2022†
TP14 0.0-0.1	SE237144.032	LB259665	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	06 Oct 2022†
TP15 0.0-0.1	SE237144.033	LB259665	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	06 Oct 2022†
TP16 0.0-0.1	SE237144.034	LB259665	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	06 Oct 2022†
TP17 0.0-0.1	SE237144.035	LB259665	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	06 Oct 2022†
TP18 0.0-0.1	SE237144.036	LB259665	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	06 Oct 2022†
TP19 0.0-0.1	SE237144.037	LB259665	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	06 Oct 2022†
TP20 0.0-0.1	SE237144.038	LB259665	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	06 Oct 2022†
TP21 0.0-0.1	SE237144.039	LB259665	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	06 Oct 2022†
TP22 0.0-0.1	SE237144.040	LB259665	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	06 Oct 2022†
TP23 0.0-0.1	SE237144.041	LB259666	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	05 Oct 2022†
TP24 0.0-0.1	SE237144.042	LB259666	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	05 Oct 2022†
TP25 0.0-0.1	SE237144.043	LB259666	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	05 Oct 2022†
TP26 0.0-0.1	SE237144.044	LB259666	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	05 Oct 2022†
TP27 0.0-0.1	SE237144.045	LB259666	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	05 Oct 2022†

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

VOC's in Soil (continued)

Method: ME-(AU)-[ENV]AN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP28 0.0-0.1	SE237144.046	LB259666	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	05 Oct 2022†
TP29 0.0-0.1	SE237144.047	LB259666	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	05 Oct 2022†
TP30 0.0-0.1	SE237144.048	LB259666	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	05 Oct 2022†
TP31 0.0-0.1	SE237144.049	LB259666	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	05 Oct 2022†
TP32 0.0-0.1	SE237144.050	LB259666	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	05 Oct 2022†
TP33 0.0-0.1	SE237144.051	LB259666	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	05 Oct 2022†
TP34 0.0-0.1	SE237144.052	LB259666	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	05 Oct 2022†
TP35 0.0-0.1	SE237144.053	LB259666	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	05 Oct 2022†
TP36 0.0-0.1	SE237144.054	LB259666	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	05 Oct 2022†
TP37 0.0-0.1	SE237144.055	LB259666	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	05 Oct 2022†
TP38 0.0-0.1	SE237144.056	LB259666	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	05 Oct 2022†
TP39 0.0-0.1	SE237144.057	LB259666	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	30 Sep 2022	05 Oct 2022†
TP40 0.0-0.1	SE237144.058	LB259666	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	30 Sep 2022	05 Oct 2022†
QC1	SE237144.059	LB259666	14 Sep 2022	27 Sep 2022	28 Sep 2022	30 Sep 2022†	28 Sep 2022	05 Oct 2022†
QC3	SE237144.060	LB259666	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	05 Oct 2022†
QC5	SE237144.061	LB259666	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	05 Oct 2022†
QC7	SE237144.062	LB259666	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	30 Sep 2022	05 Oct 2022†

VOCs in Water

Method: ME-(AU)-[ENV]AN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
SW1	SE237144.001	LB259754	23 Sep 2022	27 Sep 2022	07 Oct 2022	04 Oct 2022	07 Oct 2022	05 Oct 2022

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-[ENV]AN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
SS1	SE237144.002	LB259664	23 Sep 2022	27 Sep 2022	07 Oct 2022	30 Sep 2022	07 Oct 2022	05 Oct 2022
SS2	SE237144.003	LB259664	23 Sep 2022	27 Sep 2022	07 Oct 2022	30 Sep 2022	07 Oct 2022	05 Oct 2022
SS3	SE237144.004	LB259664	23 Sep 2022	27 Sep 2022	07 Oct 2022	30 Sep 2022	07 Oct 2022	05 Oct 2022
SS4	SE237144.005	LB259664	23 Sep 2022	27 Sep 2022	07 Oct 2022	30 Sep 2022	07 Oct 2022	05 Oct 2022
SS5	SE237144.006	LB259664	23 Sep 2022	27 Sep 2022	07 Oct 2022	30 Sep 2022	07 Oct 2022	05 Oct 2022
SS6	SE237144.007	LB259664	23 Sep 2022	27 Sep 2022	07 Oct 2022	30 Sep 2022	07 Oct 2022	05 Oct 2022
SS7	SE237144.008	LB259664	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	30 Sep 2022	05 Oct 2022†
SS8	SE237144.009	LB259664	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	30 Sep 2022	05 Oct 2022†
SS9	SE237144.010	LB259664	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	30 Sep 2022	05 Oct 2022†
SA1 0.0-0.1	SE237144.011	LB259664	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	30 Sep 2022	05 Oct 2022†
SA2 0.0-0.1	SE237144.012	LB259664	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	30 Sep 2022	05 Oct 2022†
SA3 0.5-0.6	SE237144.013	LB259664	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	30 Sep 2022	05 Oct 2022†
SA4 0.0-0.1	SE237144.014	LB259664	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	30 Sep 2022	05 Oct 2022†
SA5 0.0-0.1	SE237144.015	LB259664	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	30 Sep 2022	05 Oct 2022†
SA6 0.5-0.6	SE237144.016	LB259664	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	30 Sep 2022	05 Oct 2022†
SA7 0.0-0.1	SE237144.017	LB259664	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	30 Sep 2022	05 Oct 2022†
SA8 0.0-0.1	SE237144.018	LB259664	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	30 Sep 2022	05 Oct 2022†
SA9 0.5-0.6	SE237144.019	LB259664	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	30 Sep 2022	05 Oct 2022†
SA10 0.0-0.1	SE237144.020	LB259664	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	30 Sep 2022	05 Oct 2022†
TP1 0.0-0.1	SE237144.021	LB259665	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	06 Oct 2022†
TP2 0.0-0.2	SE237144.022	LB259665	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	06 Oct 2022†
TP3 0.0-0.1	SE237144.023	LB259665	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	06 Oct 2022†
TP4 0.0-0.1	SE237144.024	LB259665	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	06 Oct 2022†
TP5 0.0-0.1	SE237144.025	LB259665	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	06 Oct 2022†
TP6 0.0-0.1	SE237144.026	LB259665	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	06 Oct 2022†
TP8 0.0-0.1	SE237144.027	LB259665	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	06 Oct 2022†
TP10 0.0-0.1	SE237144.028	LB259665	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	06 Oct 2022†
TP11 0.0-0.1	SE237144.029	LB259665	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	06 Oct 2022†
TP12 0.0-0.1	SE237144.030	LB259665	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	06 Oct 2022†
TP13 0.0-0.1	SE237144.031	LB259665	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	06 Oct 2022†
TP14 0.0-0.1	SE237144.032	LB259665	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	06 Oct 2022†
TP15 0.0-0.1	SE237144.033	LB259665	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	06 Oct 2022†
TP16 0.0-0.1	SE237144.034	LB259665	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	06 Oct 2022†
TP17 0.0-0.1	SE237144.035	LB259665	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	06 Oct 2022†
TP18 0.0-0.1	SE237144.036	LB259665	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	06 Oct 2022†
TP19 0.0-0.1	SE237144.037	LB259665	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	06 Oct 2022†

HOLDING TIME SUMMARY

SE237144 R0

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

Volatile Petroleum Hydrocarbons in Soil (continued) — **Method: ME-(AU)-[ENV]AN433**

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP20 0.0-0.1	SE237144.038	LB259665	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	06 Oct 2022†
TP21 0.0-0.1	SE237144.039	LB259665	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	06 Oct 2022†
TP22 0.0-0.1	SE237144.040	LB259665	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	06 Oct 2022†
TP23 0.0-0.1	SE237144.041	LB259666	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	05 Oct 2022†
TP24 0.0-0.1	SE237144.042	LB259666	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	05 Oct 2022†
TP25 0.0-0.1	SE237144.043	LB259666	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	05 Oct 2022†
TP26 0.0-0.1	SE237144.044	LB259666	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	05 Oct 2022†
TP27 0.0-0.1	SE237144.045	LB259666	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	05 Oct 2022†
TP28 0.0-0.1	SE237144.046	LB259666	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	05 Oct 2022†
TP29 0.0-0.1	SE237144.047	LB259666	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	05 Oct 2022†
TP30 0.0-0.1	SE237144.048	LB259666	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	05 Oct 2022†
TP31 0.0-0.1	SE237144.049	LB259666	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	05 Oct 2022†
TP32 0.0-0.1	SE237144.050	LB259666	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	05 Oct 2022†
TP33 0.0-0.1	SE237144.051	LB259666	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	05 Oct 2022†
TP34 0.0-0.1	SE237144.052	LB259666	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	05 Oct 2022†
TP35 0.0-0.1	SE237144.053	LB259666	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	05 Oct 2022†
TP36 0.0-0.1	SE237144.054	LB259666	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	05 Oct 2022†
TP37 0.0-0.1	SE237144.055	LB259666	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	05 Oct 2022†
TP38 0.0-0.1	SE237144.056	LB259666	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	05 Oct 2022†
TP39 0.0-0.1	SE237144.057	LB259666	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	30 Sep 2022	05 Oct 2022†
TP40 0.0-0.1	SE237144.058	LB259666	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	30 Sep 2022	05 Oct 2022†
QC1	SE237144.059	LB259666	14 Sep 2022	27 Sep 2022	28 Sep 2022	30 Sep 2022†	28 Sep 2022	05 Oct 2022†
QC3	SE237144.060	LB259666	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	05 Oct 2022†
QC5	SE237144.061	LB259666	15 Sep 2022	27 Sep 2022	29 Sep 2022	30 Sep 2022†	29 Sep 2022	05 Oct 2022†
QC7	SE237144.062	LB259666	16 Sep 2022	27 Sep 2022	30 Sep 2022	30 Sep 2022	30 Sep 2022	05 Oct 2022†

Volatile Petroleum Hydrocarbons in Water — **Method: ME-(AU)-[ENV]AN433**

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
SW1	SE237144.001	LB259754	23 Sep 2022	27 Sep 2022	07 Oct 2022	04 Oct 2022	07 Oct 2022	05 Oct 2022

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

OC Pesticides in Soil — Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Tetrachloro-m-xylene (TCMX) (Surrogate)	SS1	SE237144.002	%	60 - 130%	87
	SS2	SE237144.003	%	60 - 130%	92
	SS3	SE237144.004	%	60 - 130%	96
	SS4	SE237144.005	%	60 - 130%	97
	SS5	SE237144.006	%	60 - 130%	103
	SS6	SE237144.007	%	60 - 130%	96
	SS7	SE237144.008	%	60 - 130%	93
	SS8	SE237144.009	%	60 - 130%	95
	SS9	SE237144.010	%	60 - 130%	92
	SA1 0.0-0.1	SE237144.011	%	60 - 130%	98
	SA2 0.0-0.1	SE237144.012	%	60 - 130%	90
	SA3 0.5-0.6	SE237144.013	%	60 - 130%	92
	SA4 0.0-0.1	SE237144.014	%	60 - 130%	93
	SA5 0.0-0.1	SE237144.015	%	60 - 130%	93
	SA6 0.5-0.6	SE237144.016	%	60 - 130%	96
	SA7 0.0-0.1	SE237144.017	%	60 - 130%	97
	SA8 0.0-0.1	SE237144.018	%	60 - 130%	90
	SA9 0.5-0.6	SE237144.019	%	60 - 130%	91
	SA10 0.0-0.1	SE237144.020	%	60 - 130%	89
	TP1 0.0-0.1	SE237144.021	%	60 - 130%	105
	TP2 0.0-0.2	SE237144.022	%	60 - 130%	101
	TP3 0.0-0.1	SE237144.023	%	60 - 130%	108
	TP4 0.0-0.1	SE237144.024	%	60 - 130%	106
	TP5 0.0-0.1	SE237144.025	%	60 - 130%	109
	TP6 0.0-0.1	SE237144.026	%	60 - 130%	100
	TP8 0.0-0.1	SE237144.027	%	60 - 130%	106
	TP10 0.0-0.1	SE237144.028	%	60 - 130%	101
	TP11 0.0-0.1	SE237144.029	%	60 - 130%	108
	TP12 0.0-0.1	SE237144.030	%	60 - 130%	108
	TP13 0.0-0.1	SE237144.031	%	60 - 130%	105
	TP14 0.0-0.1	SE237144.032	%	60 - 130%	100
	TP15 0.0-0.1	SE237144.033	%	60 - 130%	105
	TP16 0.0-0.1	SE237144.034	%	60 - 130%	104
	TP17 0.0-0.1	SE237144.035	%	60 - 130%	100
	TP18 0.0-0.1	SE237144.036	%	60 - 130%	95
	TP19 0.0-0.1	SE237144.037	%	60 - 130%	102
	TP20 0.0-0.1	SE237144.038	%	60 - 130%	98
	TP21 0.0-0.1	SE237144.039	%	60 - 130%	98
	TP22 0.0-0.1	SE237144.040	%	60 - 130%	98
	TP23 0.0-0.1	SE237144.041	%	60 - 130%	101
	TP24 0.0-0.1	SE237144.042	%	60 - 130%	95
	TP25 0.0-0.1	SE237144.043	%	60 - 130%	101
	TP26 0.0-0.1	SE237144.044	%	60 - 130%	99
	TP27 0.0-0.1	SE237144.045	%	60 - 130%	99
	TP28 0.0-0.1	SE237144.046	%	60 - 130%	102
	TP29 0.0-0.1	SE237144.047	%	60 - 130%	101
	TP30 0.0-0.1	SE237144.048	%	60 - 130%	97
	TP31 0.0-0.1	SE237144.049	%	60 - 130%	93
	TP32 0.0-0.1	SE237144.050	%	60 - 130%	93
	TP33 0.0-0.1	SE237144.051	%	60 - 130%	93
	TP34 0.0-0.1	SE237144.052	%	60 - 130%	111
	TP35 0.0-0.1	SE237144.053	%	60 - 130%	101
	TP36 0.0-0.1	SE237144.054	%	60 - 130%	101
	TP37 0.0-0.1	SE237144.055	%	60 - 130%	100
	TP38 0.0-0.1	SE237144.056	%	60 - 130%	102
	TP39 0.0-0.1	SE237144.057	%	60 - 130%	96
	TP40 0.0-0.1	SE237144.058	%	60 - 130%	97

OC Pesticides in Water — Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

OC Pesticides in Water (continued) — Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Tetrachloro-m-xylene (TCMX) (Surrogate)	SW1	SE237144.001	%	40 - 130%	23 ④

OP Pesticides in Soil — Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	SS1	SE237144.002	%	60 - 130%	95
	SS2	SE237144.003	%	60 - 130%	97
	SS3	SE237144.004	%	60 - 130%	97
	SS4	SE237144.005	%	60 - 130%	97
	SS5	SE237144.006	%	60 - 130%	95
	SS6	SE237144.007	%	60 - 130%	97
	SS7	SE237144.008	%	60 - 130%	96
	SS8	SE237144.009	%	60 - 130%	99
	SS9	SE237144.010	%	60 - 130%	93
	SA1 0.0-0.1	SE237144.011	%	60 - 130%	96
	SA2 0.0-0.1	SE237144.012	%	60 - 130%	93
	SA3 0.5-0.6	SE237144.013	%	60 - 130%	97
	SA4 0.0-0.1	SE237144.014	%	60 - 130%	98
	SA5 0.0-0.1	SE237144.015	%	60 - 130%	99
	SA6 0.5-0.6	SE237144.016	%	60 - 130%	97
	SA7 0.0-0.1	SE237144.017	%	60 - 130%	79
	SA8 0.0-0.1	SE237144.018	%	60 - 130%	96
	SA9 0.5-0.6	SE237144.019	%	60 - 130%	95
	SA10 0.0-0.1	SE237144.020	%	60 - 130%	94
	TP1 0.0-0.1	SE237144.021	%	60 - 130%	91
	TP2 0.0-0.2	SE237144.022	%	60 - 130%	92
	TP3 0.0-0.1	SE237144.023	%	60 - 130%	82
	TP4 0.0-0.1	SE237144.024	%	60 - 130%	90
	TP5 0.0-0.1	SE237144.025	%	60 - 130%	91
	TP6 0.0-0.1	SE237144.026	%	60 - 130%	85
	TP8 0.0-0.1	SE237144.027	%	60 - 130%	87
	TP10 0.0-0.1	SE237144.028	%	60 - 130%	82
	TP11 0.0-0.1	SE237144.029	%	60 - 130%	88
	TP12 0.0-0.1	SE237144.030	%	60 - 130%	87
	TP13 0.0-0.1	SE237144.031	%	60 - 130%	82
	TP14 0.0-0.1	SE237144.032	%	60 - 130%	89
	TP15 0.0-0.1	SE237144.033	%	60 - 130%	88
	TP16 0.0-0.1	SE237144.034	%	60 - 130%	88
	TP17 0.0-0.1	SE237144.035	%	60 - 130%	90
	TP18 0.0-0.1	SE237144.036	%	60 - 130%	88
	TP19 0.0-0.1	SE237144.037	%	60 - 130%	86
	TP20 0.0-0.1	SE237144.038	%	60 - 130%	86
	TP21 0.0-0.1	SE237144.039	%	60 - 130%	89
	TP22 0.0-0.1	SE237144.040	%	60 - 130%	87
	TP23 0.0-0.1	SE237144.041	%	60 - 130%	88
	TP24 0.0-0.1	SE237144.042	%	60 - 130%	77
	TP25 0.0-0.1	SE237144.043	%	60 - 130%	95
	TP26 0.0-0.1	SE237144.044	%	60 - 130%	96
	TP27 0.0-0.1	SE237144.045	%	60 - 130%	94
	TP28 0.0-0.1	SE237144.046	%	60 - 130%	92
	TP29 0.0-0.1	SE237144.047	%	60 - 130%	105
	TP30 0.0-0.1	SE237144.048	%	60 - 130%	99
	TP31 0.0-0.1	SE237144.049	%	60 - 130%	85
	TP32 0.0-0.1	SE237144.050	%	60 - 130%	101
	TP33 0.0-0.1	SE237144.051	%	60 - 130%	96
	TP34 0.0-0.1	SE237144.052	%	60 - 130%	94
	TP35 0.0-0.1	SE237144.053	%	60 - 130%	94
	TP36 0.0-0.1	SE237144.054	%	60 - 130%	94
	TP37 0.0-0.1	SE237144.055	%	60 - 130%	94
	TP38 0.0-0.1	SE237144.056	%	60 - 130%	94
	TP39 0.0-0.1	SE237144.057	%	60 - 130%	94

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

OP Pesticides in Soil (continued) — Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	TP40 0.0-0.1	SE237144.058	%	60 - 130%	96
d14-p-terphenyl (Surrogate)	SS1	SE237144.002	%	60 - 130%	100
	SS2	SE237144.003	%	60 - 130%	101
	SS3	SE237144.004	%	60 - 130%	103
	SS4	SE237144.005	%	60 - 130%	101
	SS5	SE237144.006	%	60 - 130%	102
	SS6	SE237144.007	%	60 - 130%	102
	SS7	SE237144.008	%	60 - 130%	100
	SS8	SE237144.009	%	60 - 130%	104
	SS9	SE237144.010	%	60 - 130%	97
	SA1 0.0-0.1	SE237144.011	%	60 - 130%	101
	SA2 0.0-0.1	SE237144.012	%	60 - 130%	101
	SA3 0.5-0.6	SE237144.013	%	60 - 130%	102
	SA4 0.0-0.1	SE237144.014	%	60 - 130%	103
	SA5 0.0-0.1	SE237144.015	%	60 - 130%	102
	SA6 0.5-0.6	SE237144.016	%	60 - 130%	102
	SA7 0.0-0.1	SE237144.017	%	60 - 130%	86
	SA8 0.0-0.1	SE237144.018	%	60 - 130%	103
	SA9 0.5-0.6	SE237144.019	%	60 - 130%	99
	SA10 0.0-0.1	SE237144.020	%	60 - 130%	100
	TP1 0.0-0.1	SE237144.021	%	60 - 130%	95
	TP2 0.0-0.2	SE237144.022	%	60 - 130%	99
	TP3 0.0-0.1	SE237144.023	%	60 - 130%	92
	TP4 0.0-0.1	SE237144.024	%	60 - 130%	96
	TP5 0.0-0.1	SE237144.025	%	60 - 130%	95
	TP6 0.0-0.1	SE237144.026	%	60 - 130%	93
	TP8 0.0-0.1	SE237144.027	%	60 - 130%	92
	TP10 0.0-0.1	SE237144.028	%	60 - 130%	87
	TP11 0.0-0.1	SE237144.029	%	60 - 130%	96
	TP12 0.0-0.1	SE237144.030	%	60 - 130%	96
	TP13 0.0-0.1	SE237144.031	%	60 - 130%	92
	TP14 0.0-0.1	SE237144.032	%	60 - 130%	94
	TP15 0.0-0.1	SE237144.033	%	60 - 130%	96
	TP16 0.0-0.1	SE237144.034	%	60 - 130%	94
	TP17 0.0-0.1	SE237144.035	%	60 - 130%	99
	TP18 0.0-0.1	SE237144.036	%	60 - 130%	96
	TP19 0.0-0.1	SE237144.037	%	60 - 130%	91
	TP20 0.0-0.1	SE237144.038	%	60 - 130%	93
	TP21 0.0-0.1	SE237144.039	%	60 - 130%	97
	TP22 0.0-0.1	SE237144.040	%	60 - 130%	96
	TP23 0.0-0.1	SE237144.041	%	60 - 130%	91
	TP24 0.0-0.1	SE237144.042	%	60 - 130%	83
	TP25 0.0-0.1	SE237144.043	%	60 - 130%	97
	TP26 0.0-0.1	SE237144.044	%	60 - 130%	99
	TP27 0.0-0.1	SE237144.045	%	60 - 130%	98
	TP28 0.0-0.1	SE237144.046	%	60 - 130%	98
	TP29 0.0-0.1	SE237144.047	%	60 - 130%	111
	TP30 0.0-0.1	SE237144.048	%	60 - 130%	104
	TP31 0.0-0.1	SE237144.049	%	60 - 130%	90
	TP32 0.0-0.1	SE237144.050	%	60 - 130%	105
	TP33 0.0-0.1	SE237144.051	%	60 - 130%	100
	TP34 0.0-0.1	SE237144.052	%	60 - 130%	98
	TP35 0.0-0.1	SE237144.053	%	60 - 130%	96
	TP36 0.0-0.1	SE237144.054	%	60 - 130%	98
	TP37 0.0-0.1	SE237144.055	%	60 - 130%	98
	TP38 0.0-0.1	SE237144.056	%	60 - 130%	96
	TP39 0.0-0.1	SE237144.057	%	60 - 130%	96
	TP40 0.0-0.1	SE237144.058	%	60 - 130%	100

OP Pesticides in Water — Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

OP Pesticides in Water (continued) — Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	SW1	SE237144.001	%	40 - 130%	42
d14-p-terphenyl (Surrogate)	SW1	SE237144.001	%	40 - 130%	44

PAH (Polynuclear Aromatic Hydrocarbons) in Soil — Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	SS1	SE237144.002	%	70 - 130%	95
	SS2	SE237144.003	%	70 - 130%	97
	SS3	SE237144.004	%	70 - 130%	97
	SS4	SE237144.005	%	70 - 130%	97
	SS5	SE237144.006	%	70 - 130%	95
	SS6	SE237144.007	%	70 - 130%	97
	SS7	SE237144.008	%	70 - 130%	96
	SS8	SE237144.009	%	70 - 130%	99
	SS9	SE237144.010	%	70 - 130%	93
	SA1 0.0-0.1	SE237144.011	%	70 - 130%	96
	SA2 0.0-0.1	SE237144.012	%	70 - 130%	93
	SA3 0.5-0.6	SE237144.013	%	70 - 130%	97
	SA4 0.0-0.1	SE237144.014	%	70 - 130%	98
	SA5 0.0-0.1	SE237144.015	%	70 - 130%	99
	SA6 0.5-0.6	SE237144.016	%	70 - 130%	97
	SA7 0.0-0.1	SE237144.017	%	70 - 130%	79
	SA8 0.0-0.1	SE237144.018	%	70 - 130%	96
	SA9 0.5-0.6	SE237144.019	%	70 - 130%	95
	SA10 0.0-0.1	SE237144.020	%	70 - 130%	94
	TP1 0.0-0.1	SE237144.021	%	70 - 130%	91
	TP2 0.0-0.2	SE237144.022	%	70 - 130%	92
	TP3 0.0-0.1	SE237144.023	%	70 - 130%	82
	TP4 0.0-0.1	SE237144.024	%	70 - 130%	90
	TP5 0.0-0.1	SE237144.025	%	70 - 130%	91
	TP6 0.0-0.1	SE237144.026	%	70 - 130%	85
	TP8 0.0-0.1	SE237144.027	%	70 - 130%	87
	TP10 0.0-0.1	SE237144.028	%	70 - 130%	82
	TP11 0.0-0.1	SE237144.029	%	70 - 130%	88
	TP12 0.0-0.1	SE237144.030	%	70 - 130%	87
	TP13 0.0-0.1	SE237144.031	%	70 - 130%	82
	TP14 0.0-0.1	SE237144.032	%	70 - 130%	89
	TP15 0.0-0.1	SE237144.033	%	70 - 130%	88
	TP16 0.0-0.1	SE237144.034	%	70 - 130%	88
	TP17 0.0-0.1	SE237144.035	%	70 - 130%	90
	TP18 0.0-0.1	SE237144.036	%	70 - 130%	88
	TP19 0.0-0.1	SE237144.037	%	70 - 130%	86
	TP20 0.0-0.1	SE237144.038	%	70 - 130%	86
	TP21 0.0-0.1	SE237144.039	%	70 - 130%	89
	TP22 0.0-0.1	SE237144.040	%	70 - 130%	87
	TP23 0.0-0.1	SE237144.041	%	70 - 130%	88
	TP24 0.0-0.1	SE237144.042	%	70 - 130%	77
	TP25 0.0-0.1	SE237144.043	%	70 - 130%	95
	TP26 0.0-0.1	SE237144.044	%	70 - 130%	96
	TP27 0.0-0.1	SE237144.045	%	70 - 130%	94
	TP28 0.0-0.1	SE237144.046	%	70 - 130%	92
	TP29 0.0-0.1	SE237144.047	%	70 - 130%	105
	TP30 0.0-0.1	SE237144.048	%	70 - 130%	99
	TP31 0.0-0.1	SE237144.049	%	70 - 130%	85
	TP32 0.0-0.1	SE237144.050	%	70 - 130%	101
	TP33 0.0-0.1	SE237144.051	%	70 - 130%	96
	TP34 0.0-0.1	SE237144.052	%	70 - 130%	94
	TP35 0.0-0.1	SE237144.053	%	70 - 130%	94
	TP36 0.0-0.1	SE237144.054	%	70 - 130%	94
	TP37 0.0-0.1	SE237144.055	%	70 - 130%	94
	TP38 0.0-0.1	SE237144.056	%	70 - 130%	94
	TP39 0.0-0.1	SE237144.057	%	70 - 130%	94

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued) — **Method: ME-(AU)-[ENV]AN420**

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	TP40 0.0-0.1	SE237144.058	%	70 - 130%	96
	QC1	SE237144.059	%	70 - 130%	96
	QC3	SE237144.060	%	70 - 130%	96
	QC5	SE237144.061	%	70 - 130%	92
	QC7	SE237144.062	%	70 - 130%	96
d14-p-terphenyl (Surrogate)	SS1	SE237144.002	%	70 - 130%	100
	SS2	SE237144.003	%	70 - 130%	101
	SS3	SE237144.004	%	70 - 130%	103
	SS4	SE237144.005	%	70 - 130%	101
	SS5	SE237144.006	%	70 - 130%	102
	SS6	SE237144.007	%	70 - 130%	102
	SS7	SE237144.008	%	70 - 130%	100
	SS8	SE237144.009	%	70 - 130%	104
	SS9	SE237144.010	%	70 - 130%	97
	SA1 0.0-0.1	SE237144.011	%	70 - 130%	101
	SA2 0.0-0.1	SE237144.012	%	70 - 130%	101
	SA3 0.5-0.6	SE237144.013	%	70 - 130%	102
	SA4 0.0-0.1	SE237144.014	%	70 - 130%	103
	SA5 0.0-0.1	SE237144.015	%	70 - 130%	102
	SA6 0.5-0.6	SE237144.016	%	70 - 130%	102
	SA7 0.0-0.1	SE237144.017	%	70 - 130%	86
	SA8 0.0-0.1	SE237144.018	%	70 - 130%	103
	SA9 0.5-0.6	SE237144.019	%	70 - 130%	99
	SA10 0.0-0.1	SE237144.020	%	70 - 130%	100
	TP1 0.0-0.1	SE237144.021	%	70 - 130%	95
	TP2 0.0-0.2	SE237144.022	%	70 - 130%	99
	TP3 0.0-0.1	SE237144.023	%	70 - 130%	92
	TP4 0.0-0.1	SE237144.024	%	70 - 130%	96
	TP5 0.0-0.1	SE237144.025	%	70 - 130%	95
	TP6 0.0-0.1	SE237144.026	%	70 - 130%	93
	TP8 0.0-0.1	SE237144.027	%	70 - 130%	92
	TP10 0.0-0.1	SE237144.028	%	70 - 130%	87
	TP11 0.0-0.1	SE237144.029	%	70 - 130%	96
	TP12 0.0-0.1	SE237144.030	%	70 - 130%	96
	TP13 0.0-0.1	SE237144.031	%	70 - 130%	92
	TP14 0.0-0.1	SE237144.032	%	70 - 130%	94
	TP15 0.0-0.1	SE237144.033	%	70 - 130%	96
	TP16 0.0-0.1	SE237144.034	%	70 - 130%	94
	TP17 0.0-0.1	SE237144.035	%	70 - 130%	99
	TP18 0.0-0.1	SE237144.036	%	70 - 130%	96
	TP19 0.0-0.1	SE237144.037	%	70 - 130%	91
	TP20 0.0-0.1	SE237144.038	%	70 - 130%	93
	TP21 0.0-0.1	SE237144.039	%	70 - 130%	97
	TP22 0.0-0.1	SE237144.040	%	70 - 130%	96
	TP23 0.0-0.1	SE237144.041	%	70 - 130%	91
	TP24 0.0-0.1	SE237144.042	%	70 - 130%	83
	TP25 0.0-0.1	SE237144.043	%	70 - 130%	97
	TP26 0.0-0.1	SE237144.044	%	70 - 130%	99
	TP27 0.0-0.1	SE237144.045	%	70 - 130%	98
	TP28 0.0-0.1	SE237144.046	%	70 - 130%	98
	TP29 0.0-0.1	SE237144.047	%	70 - 130%	111
	TP30 0.0-0.1	SE237144.048	%	70 - 130%	104
	TP31 0.0-0.1	SE237144.049	%	70 - 130%	90
	TP32 0.0-0.1	SE237144.050	%	70 - 130%	105
	TP33 0.0-0.1	SE237144.051	%	70 - 130%	100
	TP34 0.0-0.1	SE237144.052	%	70 - 130%	98
	TP35 0.0-0.1	SE237144.053	%	70 - 130%	96
	TP36 0.0-0.1	SE237144.054	%	70 - 130%	98
	TP37 0.0-0.1	SE237144.055	%	70 - 130%	98
	TP38 0.0-0.1	SE237144.056	%	70 - 130%	96
	TP39 0.0-0.1	SE237144.057	%	70 - 130%	96

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued) — **Method: ME-(AU)-[ENV]AN420**

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
d14-p-terphenyl (Surrogate)	TP40 0.0-0.1	SE237144.058	%	70 - 130%	100
	QC1	SE237144.059	%	70 - 130%	102
	QC3	SE237144.060	%	70 - 130%	98
	QC5	SE237144.061	%	70 - 130%	98
	QC7	SE237144.062	%	70 - 130%	100
d5-nitrobenzene (Surrogate)	SS1	SE237144.002	%	70 - 130%	109
	SS2	SE237144.003	%	70 - 130%	109
	SS3	SE237144.004	%	70 - 130%	110
	SS4	SE237144.005	%	70 - 130%	109
	SS5	SE237144.006	%	70 - 130%	108
	SS6	SE237144.007	%	70 - 130%	109
	SS7	SE237144.008	%	70 - 130%	108
	SS8	SE237144.009	%	70 - 130%	112
	SS9	SE237144.010	%	70 - 130%	106
	SA1 0.0-0.1	SE237144.011	%	70 - 130%	107
	SA2 0.0-0.1	SE237144.012	%	70 - 130%	108
	SA3 0.5-0.6	SE237144.013	%	70 - 130%	108
	SA4 0.0-0.1	SE237144.014	%	70 - 130%	109
	SA5 0.0-0.1	SE237144.015	%	70 - 130%	108
	SA6 0.5-0.6	SE237144.016	%	70 - 130%	106
	SA7 0.0-0.1	SE237144.017	%	70 - 130%	85
	SA8 0.0-0.1	SE237144.018	%	70 - 130%	108
	SA9 0.5-0.6	SE237144.019	%	70 - 130%	106
	SA10 0.0-0.1	SE237144.020	%	70 - 130%	105
	TP1 0.0-0.1	SE237144.021	%	70 - 130%	99
	TP2 0.0-0.2	SE237144.022	%	70 - 130%	103
	TP3 0.0-0.1	SE237144.023	%	70 - 130%	97
	TP4 0.0-0.1	SE237144.024	%	70 - 130%	99
	TP5 0.0-0.1	SE237144.025	%	70 - 130%	99
	TP6 0.0-0.1	SE237144.026	%	70 - 130%	97
	TP8 0.0-0.1	SE237144.027	%	70 - 130%	98
	TP10 0.0-0.1	SE237144.028	%	70 - 130%	90
	TP11 0.0-0.1	SE237144.029	%	70 - 130%	100
	TP12 0.0-0.1	SE237144.030	%	70 - 130%	101
	TP13 0.0-0.1	SE237144.031	%	70 - 130%	96
	TP14 0.0-0.1	SE237144.032	%	70 - 130%	100
	TP15 0.0-0.1	SE237144.033	%	70 - 130%	102
	TP16 0.0-0.1	SE237144.034	%	70 - 130%	99
	TP17 0.0-0.1	SE237144.035	%	70 - 130%	106
	TP18 0.0-0.1	SE237144.036	%	70 - 130%	100
	TP19 0.0-0.1	SE237144.037	%	70 - 130%	95
	TP20 0.0-0.1	SE237144.038	%	70 - 130%	98
	TP21 0.0-0.1	SE237144.039	%	70 - 130%	104
	TP22 0.0-0.1	SE237144.040	%	70 - 130%	99
	TP23 0.0-0.1	SE237144.041	%	70 - 130%	100
	TP24 0.0-0.1	SE237144.042	%	70 - 130%	92
	TP25 0.0-0.1	SE237144.043	%	70 - 130%	111
	TP26 0.0-0.1	SE237144.044	%	70 - 130%	113
	TP27 0.0-0.1	SE237144.045	%	70 - 130%	113
	TP28 0.0-0.1	SE237144.046	%	70 - 130%	111
	TP29 0.0-0.1	SE237144.047	%	70 - 130%	123
	TP30 0.0-0.1	SE237144.048	%	70 - 130%	120
	TP31 0.0-0.1	SE237144.049	%	70 - 130%	101
	TP32 0.0-0.1	SE237144.050	%	70 - 130%	121
	TP33 0.0-0.1	SE237144.051	%	70 - 130%	112
	TP34 0.0-0.1	SE237144.052	%	70 - 130%	110
	TP35 0.0-0.1	SE237144.053	%	70 - 130%	110
	TP36 0.0-0.1	SE237144.054	%	70 - 130%	110
	TP37 0.0-0.1	SE237144.055	%	70 - 130%	110
	TP38 0.0-0.1	SE237144.056	%	70 - 130%	110
	TP39 0.0-0.1	SE237144.057	%	70 - 130%	110

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
d5-nitrobenzene (Surrogate)	TP40 0.0-0.1	SE237144.058	%	70 - 130%	110
	QC1	SE237144.059	%	70 - 130%	112
	QC3	SE237144.060	%	70 - 130%	114
	QC5	SE237144.061	%	70 - 130%	110
	QC7	SE237144.062	%	70 - 130%	112

PAH (Polynuclear Aromatic Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	SW1	SE237144.001	%	40 - 130%	42
d14-p-terphenyl (Surrogate)	SW1	SE237144.001	%	40 - 130%	44
d5-nitrobenzene (Surrogate)	SW1	SE237144.001	%	40 - 130%	40

PCBs in Soil

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Tetrachloro-m-xylene (TCMX) (Surrogate)	SS1	SE237144.002	%	60 - 130%	87
	SS2	SE237144.003	%	60 - 130%	92
	SS3	SE237144.004	%	60 - 130%	96
	SS4	SE237144.005	%	60 - 130%	97
	SS5	SE237144.006	%	60 - 130%	103
	SS6	SE237144.007	%	60 - 130%	96
	SS7	SE237144.008	%	60 - 130%	93
	SS8	SE237144.009	%	60 - 130%	95
	SS9	SE237144.010	%	60 - 130%	92
	SA1 0.0-0.1	SE237144.011	%	60 - 130%	98
	SA2 0.0-0.1	SE237144.012	%	60 - 130%	90
	SA3 0.5-0.6	SE237144.013	%	60 - 130%	92
	SA4 0.0-0.1	SE237144.014	%	60 - 130%	93
	SA5 0.0-0.1	SE237144.015	%	60 - 130%	93
	SA6 0.5-0.6	SE237144.016	%	60 - 130%	96
	SA7 0.0-0.1	SE237144.017	%	60 - 130%	97
	SA8 0.0-0.1	SE237144.018	%	60 - 130%	90
	SA9 0.5-0.6	SE237144.019	%	60 - 130%	91
	SA10 0.0-0.1	SE237144.020	%	60 - 130%	89
	TP1 0.0-0.1	SE237144.021	%	60 - 130%	105
	TP2 0.0-0.2	SE237144.022	%	60 - 130%	101
	TP3 0.0-0.1	SE237144.023	%	60 - 130%	108
	TP4 0.0-0.1	SE237144.024	%	60 - 130%	106
	TP5 0.0-0.1	SE237144.025	%	60 - 130%	109
	TP6 0.0-0.1	SE237144.026	%	60 - 130%	100
	TP8 0.0-0.1	SE237144.027	%	60 - 130%	106
	TP10 0.0-0.1	SE237144.028	%	60 - 130%	101
	TP11 0.0-0.1	SE237144.029	%	60 - 130%	108
	TP12 0.0-0.1	SE237144.030	%	60 - 130%	108
	TP13 0.0-0.1	SE237144.031	%	60 - 130%	105
	TP14 0.0-0.1	SE237144.032	%	60 - 130%	100
	TP15 0.0-0.1	SE237144.033	%	60 - 130%	105
	TP16 0.0-0.1	SE237144.034	%	60 - 130%	104
	TP17 0.0-0.1	SE237144.035	%	60 - 130%	100
	TP18 0.0-0.1	SE237144.036	%	60 - 130%	95
	TP19 0.0-0.1	SE237144.037	%	60 - 130%	102
	TP20 0.0-0.1	SE237144.038	%	60 - 130%	98
	TP21 0.0-0.1	SE237144.039	%	60 - 130%	98
	TP22 0.0-0.1	SE237144.040	%	60 - 130%	98
	TP23 0.0-0.1	SE237144.041	%	60 - 130%	101
	TP24 0.0-0.1	SE237144.042	%	60 - 130%	95
	TP25 0.0-0.1	SE237144.043	%	60 - 130%	101
	TP26 0.0-0.1	SE237144.044	%	60 - 130%	99
	TP27 0.0-0.1	SE237144.045	%	60 - 130%	99
	TP28 0.0-0.1	SE237144.046	%	60 - 130%	102
	TP29 0.0-0.1	SE237144.047	%	60 - 130%	101
	TP30 0.0-0.1	SE237144.048	%	60 - 130%	97
	TP31 0.0-0.1	SE237144.049	%	60 - 130%	93

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

PCBs in Soil (continued) — Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Tetrachloro-m-xylene (TCMX) (Surrogate)	TP32 0.0-0.1	SE237144.050	%	60 - 130%	93
	TP33 0.0-0.1	SE237144.051	%	60 - 130%	93
	TP34 0.0-0.1	SE237144.052	%	60 - 130%	111
	TP35 0.0-0.1	SE237144.053	%	60 - 130%	101
	TP36 0.0-0.1	SE237144.054	%	60 - 130%	101
	TP37 0.0-0.1	SE237144.055	%	60 - 130%	100
	TP38 0.0-0.1	SE237144.056	%	60 - 130%	102
	TP39 0.0-0.1	SE237144.057	%	60 - 130%	96
	TP40 0.0-0.1	SE237144.058	%	60 - 130%	97

PCBs in Water — Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Tetrachloro-m-xylene (Surrogate)	SW1	SE237144.001	%	40 - 130%	23 ④

Per- and Polyfluoroalkyl Substances (PFAS) in Solid Samples — Method: MA-1523

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
(13C2_PFTeDA) Isotopically Labelled Internal Recovery Standard	SS6	SE237144.007	%	0 - 130%	30
	SS7	SE237144.008	%	0 - 130%	35
	SS8	SE237144.009	%	0 - 130%	34
	SS9	SE237144.010	%	0 - 130%	41
(13C2-4:2 FTS) Isotopically Labelled Internal Recovery Standard	SS6	SE237144.007	%	0 - 150%	85
	SS7	SE237144.008	%	0 - 150%	59
	SS8	SE237144.009	%	0 - 150%	57
	SS9	SE237144.010	%	0 - 150%	61
(13C2-6:2 FTS) Isotopically Labelled Internal Recovery Standard	SS6	SE237144.007	%	0 - 150%	56
	SS7	SE237144.008	%	0 - 150%	55
	SS8	SE237144.009	%	0 - 150%	48
	SS9	SE237144.010	%	0 - 150%	52
(13C2-8:2 FTS) Isotopically Labelled Internal Recovery Standard	SS6	SE237144.007	%	0 - 150%	72
	SS7	SE237144.008	%	0 - 150%	44
	SS8	SE237144.009	%	0 - 150%	47
	SS9	SE237144.010	%	0 - 150%	55
(13C2-PFDoA) Isotopically Labelled Internal Recovery Standard	SS6	SE237144.007	%	0 - 150%	63
	SS7	SE237144.008	%	0 - 150%	57
	SS8	SE237144.009	%	0 - 150%	63
	SS9	SE237144.010	%	0 - 150%	67
(13C2-PFHxDA) Isotopically Labelled Internal Recovery Standard	SS6	SE237144.007	%	0 - 150%	57
	SS7	SE237144.008	%	0 - 150%	57
	SS8	SE237144.009	%	0 - 150%	26
	SS9	SE237144.010	%	0 - 150%	41
(13C3-PFBS) Isotopically Labelled Internal Recovery Standard	SS6	SE237144.007	%	0 - 150%	116
	SS7	SE237144.008	%	0 - 150%	97
	SS8	SE237144.009	%	0 - 150%	96
	SS9	SE237144.010	%	0 - 150%	107
(13C3-PFHxS) Isotopically Labelled Internal Recovery Standard	SS6	SE237144.007	%	0 - 150%	88
	SS7	SE237144.008	%	0 - 150%	91
	SS8	SE237144.009	%	0 - 150%	85
	SS9	SE237144.010	%	0 - 150%	101
(13C4_PFOA) Isotopically Labelled Internal Recovery Standard	SS6	SE237144.007	%	0 - 150%	109
	SS7	SE237144.008	%	0 - 150%	93
	SS8	SE237144.009	%	0 - 150%	99
	SS9	SE237144.010	%	0 - 150%	91
(13C4-PFBA) Isotopically Labelled Internal Recovery Standard	SS6	SE237144.007	%	0 - 150%	94
	SS7	SE237144.008	%	0 - 150%	91
	SS8	SE237144.009	%	0 - 150%	95
	SS9	SE237144.010	%	0 - 150%	93
(13C4-PFHpA) Isotopically Labelled Internal Recovery Standard	SS6	SE237144.007	%	0 - 150%	114
	SS7	SE237144.008	%	0 - 150%	93
	SS8	SE237144.009	%	0 - 150%	102
	SS9	SE237144.010	%	0 - 150%	101

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Per- and Polyfluoroalkyl Substances (PFAS) in Solid Samples (continued) — Method: MA-1523

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
(13C5-PFHxA) Isotopically Labelled Internal Recovery Standard	SS6	SE237144.007	%	0 - 150%	116
	SS7	SE237144.008	%	0 - 150%	94
	SS8	SE237144.009	%	0 - 150%	99
	SS9	SE237144.010	%	0 - 150%	107
(13C5-PFPeA) Isotopically Labelled Internal Recovery Standard	SS6	SE237144.007	%	0 - 150%	86
	SS7	SE237144.008	%	0 - 150%	98
	SS8	SE237144.009	%	0 - 150%	102
	SS9	SE237144.010	%	0 - 150%	102
(13C6-PFDA) Isotopically Labelled Internal Recovery Standard	SS6	SE237144.007	%	0 - 150%	125
	SS7	SE237144.008	%	0 - 150%	74
	SS8	SE237144.009	%	0 - 150%	93
	SS9	SE237144.010	%	0 - 150%	78
(13C7-PFUdA) Isotopically Labelled Internal Recovery Standard	SS6	SE237144.007	%	0 - 150%	78
	SS7	SE237144.008	%	0 - 150%	71
	SS8	SE237144.009	%	0 - 150%	75
	SS9	SE237144.010	%	0 - 150%	67
(13C8-PFOS) Isotopically Labelled Internal Recovery Standard	SS6	SE237144.007	%	0 - 150%	135
	SS7	SE237144.008	%	0 - 150%	86
	SS8	SE237144.009	%	0 - 150%	78
	SS9	SE237144.010	%	0 - 150%	100
(13C8-PFOSA) Isotopically Labelled Internal Recovery Standard	SS6	SE237144.007	%	0 - 150%	130
	SS7	SE237144.008	%	0 - 150%	69
	SS8	SE237144.009	%	0 - 150%	64
	SS9	SE237144.010	%	0 - 150%	77
(13C9-PFNA) Isotopically Labelled Internal Recovery Standard	SS6	SE237144.007	%	0 - 150%	88
	SS7	SE237144.008	%	0 - 150%	109
	SS8	SE237144.009	%	0 - 150%	89
	SS9	SE237144.010	%	0 - 150%	85
(D3-N-MeFOSA) Isotopically Labelled Internal Recovery Standard	SS6	SE237144.007	%	0 - 150%	102
	SS7	SE237144.008	%	0 - 150%	61
	SS8	SE237144.009	%	0 - 150%	44
	SS9	SE237144.010	%	0 - 150%	57
(D3-N-MeFOSAA) Isotopically Labelled Internal Recovery Standard	SS6	SE237144.007	%	0 - 150%	88
	SS7	SE237144.008	%	0 - 150%	64
	SS8	SE237144.009	%	0 - 150%	51
	SS9	SE237144.010	%	0 - 150%	62
(D5-N-EtFOSA) Isotopically Labelled Internal Recovery Standard	SS6	SE237144.007	%	0 - 150%	72
	SS7	SE237144.008	%	0 - 150%	45
	SS8	SE237144.009	%	0 - 150%	31
	SS9	SE237144.010	%	0 - 150%	50
(D5-N-EtFOSAA) Isotopically Labelled Internal Recovery Standard	SS6	SE237144.007	%	0 - 150%	84
	SS7	SE237144.008	%	0 - 150%	74
	SS8	SE237144.009	%	0 - 150%	50
	SS9	SE237144.010	%	0 - 150%	74
(D7-N-MeFOSE) Isotopically Labelled Internal Recovery Standard	SS6	SE237144.007	%	0 - 150%	97
	SS7	SE237144.008	%	0 - 150%	59
	SS8	SE237144.009	%	0 - 150%	37
	SS9	SE237144.010	%	0 - 150%	58
(D9-N-EtFOSE) Isotopically Labelled Internal Recovery Standard	SS6	SE237144.007	%	0 - 150%	90
	SS7	SE237144.008	%	0 - 150%	60
	SS8	SE237144.009	%	0 - 150%	39
	SS9	SE237144.010	%	0 - 150%	51

Speciated Phenols in Soil — Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2,4,6-Tribromophenol (Surrogate)	SS1	SE237144.002	%	70 - 130%	89
	SS2	SE237144.003	%	70 - 130%	94
	SS3	SE237144.004	%	70 - 130%	95
	SS4	SE237144.005	%	70 - 130%	96
	SS5	SE237144.006	%	70 - 130%	101
	SS6	SE237144.007	%	70 - 130%	98

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Speciated Phenols in Soil (continued) — **Method: ME-(AU)-[ENV]AN420**

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2,4,6-Tribromophenol (Surrogate)	SS7	SE237144.008	%	70 - 130%	95
	SS8	SE237144.009	%	70 - 130%	95
	SS9	SE237144.010	%	70 - 130%	88
	SA1 0.0-0.1	SE237144.011	%	70 - 130%	97
	SA2 0.0-0.1	SE237144.012	%	70 - 130%	97
	SA3 0.5-0.6	SE237144.013	%	70 - 130%	99
	SA4 0.0-0.1	SE237144.014	%	70 - 130%	98
	SA5 0.0-0.1	SE237144.015	%	70 - 130%	97
	SA6 0.5-0.6	SE237144.016	%	70 - 130%	103
	SA7 0.0-0.1	SE237144.017	%	70 - 130%	102
	SA8 0.0-0.1	SE237144.018	%	70 - 130%	100
	SA9 0.5-0.6	SE237144.019	%	70 - 130%	101
	SA10 0.0-0.1	SE237144.020	%	70 - 130%	94
	TP1 0.0-0.1	SE237144.021	%	70 - 130%	93
	TP2 0.0-0.2	SE237144.022	%	70 - 130%	81
	TP3 0.0-0.1	SE237144.023	%	70 - 130%	98
	TP4 0.0-0.1	SE237144.024	%	70 - 130%	97
	TP5 0.0-0.1	SE237144.025	%	70 - 130%	98
	TP6 0.0-0.1	SE237144.026	%	70 - 130%	103
	TP8 0.0-0.1	SE237144.027	%	70 - 130%	100
	TP10 0.0-0.1	SE237144.028	%	70 - 130%	100
	TP11 0.0-0.1	SE237144.029	%	70 - 130%	104
	TP12 0.0-0.1	SE237144.030	%	70 - 130%	101
	TP13 0.0-0.1	SE237144.031	%	70 - 130%	108
	TP14 0.0-0.1	SE237144.032	%	70 - 130%	102
	TP15 0.0-0.1	SE237144.033	%	70 - 130%	103
	TP16 0.0-0.1	SE237144.034	%	70 - 130%	98
	TP17 0.0-0.1	SE237144.035	%	70 - 130%	102
	TP18 0.0-0.1	SE237144.036	%	70 - 130%	96
	TP19 0.0-0.1	SE237144.037	%	70 - 130%	99
	TP20 0.0-0.1	SE237144.038	%	70 - 130%	99
	TP21 0.0-0.1	SE237144.039	%	70 - 130%	97
	TP22 0.0-0.1	SE237144.040	%	70 - 130%	102
	TP23 0.0-0.1	SE237144.041	%	70 - 130%	87
	TP24 0.0-0.1	SE237144.042	%	70 - 130%	73
	TP25 0.0-0.1	SE237144.043	%	70 - 130%	73
	TP26 0.0-0.1	SE237144.044	%	70 - 130%	76
	TP27 0.0-0.1	SE237144.045	%	70 - 130%	75
	TP28 0.0-0.1	SE237144.046	%	70 - 130%	71
	TP29 0.0-0.1	SE237144.047	%	70 - 130%	72
	TP30 0.0-0.1	SE237144.048	%	70 - 130%	75
	TP31 0.0-0.1	SE237144.049	%	70 - 130%	70
	TP32 0.0-0.1	SE237144.050	%	70 - 130%	73
	TP33 0.0-0.1	SE237144.051	%	70 - 130%	74
	TP34 0.0-0.1	SE237144.052	%	70 - 130%	76
	TP35 0.0-0.1	SE237144.053	%	70 - 130%	74
	TP36 0.0-0.1	SE237144.054	%	70 - 130%	72
	TP37 0.0-0.1	SE237144.055	%	70 - 130%	76
	TP38 0.0-0.1	SE237144.056	%	70 - 130%	71
	TP39 0.0-0.1	SE237144.057	%	70 - 130%	74
	TP40 0.0-0.1	SE237144.058	%	70 - 130%	72
d5-phenol (Surrogate)	SS1	SE237144.002	%	50 - 130%	87
	SS2	SE237144.003	%	50 - 130%	88
	SS3	SE237144.004	%	50 - 130%	87
	SS4	SE237144.005	%	50 - 130%	92
	SS5	SE237144.006	%	50 - 130%	94
	SS6	SE237144.007	%	50 - 130%	94
	SS7	SE237144.008	%	50 - 130%	88
	SS8	SE237144.009	%	50 - 130%	89
	SS9	SE237144.010	%	50 - 130%	84
	SA1 0.0-0.1	SE237144.011	%	50 - 130%	93

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Speciated Phenols in Soil (continued) — Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
d5-phenol (Surrogate)	SA2 0.0-0.1	SE237144.012	%	50 - 130%	90
	SA3 0.5-0.6	SE237144.013	%	50 - 130%	94
	SA4 0.0-0.1	SE237144.014	%	50 - 130%	90
	SA5 0.0-0.1	SE237144.015	%	50 - 130%	89
	SA6 0.5-0.6	SE237144.016	%	50 - 130%	97
	SA7 0.0-0.1	SE237144.017	%	50 - 130%	95
	SA8 0.0-0.1	SE237144.018	%	50 - 130%	93
	SA9 0.5-0.6	SE237144.019	%	50 - 130%	87
	SA10 0.0-0.1	SE237144.020	%	50 - 130%	81
	TP1 0.0-0.1	SE237144.021	%	50 - 130%	81
	TP2 0.0-0.2	SE237144.022	%	50 - 130%	42 ④
	TP3 0.0-0.1	SE237144.023	%	50 - 130%	87
	TP4 0.0-0.1	SE237144.024	%	50 - 130%	85
	TP5 0.0-0.1	SE237144.025	%	50 - 130%	88
	TP6 0.0-0.1	SE237144.026	%	50 - 130%	92
	TP8 0.0-0.1	SE237144.027	%	50 - 130%	90
	TP10 0.0-0.1	SE237144.028	%	50 - 130%	88
	TP11 0.0-0.1	SE237144.029	%	50 - 130%	91
	TP12 0.0-0.1	SE237144.030	%	50 - 130%	89
	TP13 0.0-0.1	SE237144.031	%	50 - 130%	95
	TP14 0.0-0.1	SE237144.032	%	50 - 130%	91
	TP15 0.0-0.1	SE237144.033	%	50 - 130%	93
	TP16 0.0-0.1	SE237144.034	%	50 - 130%	88
	TP17 0.0-0.1	SE237144.035	%	50 - 130%	90
	TP18 0.0-0.1	SE237144.036	%	50 - 130%	73
	TP19 0.0-0.1	SE237144.037	%	50 - 130%	89
	TP20 0.0-0.1	SE237144.038	%	50 - 130%	89
	TP21 0.0-0.1	SE237144.039	%	50 - 130%	84
	TP22 0.0-0.1	SE237144.040	%	50 - 130%	90
	TP23 0.0-0.1	SE237144.041	%	50 - 130%	91
	TP24 0.0-0.1	SE237144.042	%	50 - 130%	91
	TP25 0.0-0.1	SE237144.043	%	50 - 130%	93
	TP26 0.0-0.1	SE237144.044	%	50 - 130%	90
	TP27 0.0-0.1	SE237144.045	%	50 - 130%	93
	TP28 0.0-0.1	SE237144.046	%	50 - 130%	91
	TP29 0.0-0.1	SE237144.047	%	50 - 130%	90
	TP30 0.0-0.1	SE237144.048	%	50 - 130%	77
	TP31 0.0-0.1	SE237144.049	%	50 - 130%	90
	TP32 0.0-0.1	SE237144.050	%	50 - 130%	90
	TP33 0.0-0.1	SE237144.051	%	50 - 130%	91
	TP34 0.0-0.1	SE237144.052	%	50 - 130%	92
	TP35 0.0-0.1	SE237144.053	%	50 - 130%	92
	TP36 0.0-0.1	SE237144.054	%	50 - 130%	81
	TP37 0.0-0.1	SE237144.055	%	50 - 130%	92
	TP38 0.0-0.1	SE237144.056	%	50 - 130%	94
	TP39 0.0-0.1	SE237144.057	%	50 - 130%	88
	TP40 0.0-0.1	SE237144.058	%	50 - 130%	91

Speciated Phenols in Water — Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2,4,6-Tribromophenol (Surrogate)	SW1	SE237144.001	%	40 - 130%	23 ④
d5-phenol (Surrogate)	SW1	SE237144.001	%	20 - 90%	21

VOC's in Soil — Method: ME-(AU)-[ENV]AN433

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	SS1	SE237144.002	%	60 - 130%	95
	SS2	SE237144.003	%	60 - 130%	77
	SS3	SE237144.004	%	60 - 130%	107
	SS4	SE237144.005	%	60 - 130%	76
	SS5	SE237144.006	%	60 - 130%	81
	SS6	SE237144.007	%	60 - 130%	78

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

VOC's in Soil (continued) — **Method: ME-(AU)-[ENV]AN433**

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	SS7	SE237144.008	%	60 - 130%	75
	SS8	SE237144.009	%	60 - 130%	83
	SS9	SE237144.010	%	60 - 130%	80
	SA1 0.0-0.1	SE237144.011	%	60 - 130%	82
	SA2 0.0-0.1	SE237144.012	%	60 - 130%	87
	SA3 0.5-0.6	SE237144.013	%	60 - 130%	85
	SA4 0.0-0.1	SE237144.014	%	60 - 130%	81
	SA5 0.0-0.1	SE237144.015	%	60 - 130%	78
	SA6 0.5-0.6	SE237144.016	%	60 - 130%	82
	SA7 0.0-0.1	SE237144.017	%	60 - 130%	83
	SA8 0.0-0.1	SE237144.018	%	60 - 130%	82
	SA9 0.5-0.6	SE237144.019	%	60 - 130%	107
	SA10 0.0-0.1	SE237144.020	%	60 - 130%	83
	TP1 0.0-0.1	SE237144.021	%	60 - 130%	109
	TP2 0.0-0.2	SE237144.022	%	60 - 130%	85
	TP3 0.0-0.1	SE237144.023	%	60 - 130%	83
	TP4 0.0-0.1	SE237144.024	%	60 - 130%	81
	TP5 0.0-0.1	SE237144.025	%	60 - 130%	89
	TP6 0.0-0.1	SE237144.026	%	60 - 130%	85
	TP8 0.0-0.1	SE237144.027	%	60 - 130%	82
	TP10 0.0-0.1	SE237144.028	%	60 - 130%	84
	TP11 0.0-0.1	SE237144.029	%	60 - 130%	82
	TP12 0.0-0.1	SE237144.030	%	60 - 130%	83
	TP13 0.0-0.1	SE237144.031	%	60 - 130%	80
	TP14 0.0-0.1	SE237144.032	%	60 - 130%	90
	TP15 0.0-0.1	SE237144.033	%	60 - 130%	81
	TP16 0.0-0.1	SE237144.034	%	60 - 130%	81
	TP17 0.0-0.1	SE237144.035	%	60 - 130%	83
	TP18 0.0-0.1	SE237144.036	%	60 - 130%	84
	TP19 0.0-0.1	SE237144.037	%	60 - 130%	74
	TP20 0.0-0.1	SE237144.038	%	60 - 130%	87
	TP21 0.0-0.1	SE237144.039	%	60 - 130%	78
	TP22 0.0-0.1	SE237144.040	%	60 - 130%	76
	TP23 0.0-0.1	SE237144.041	%	60 - 130%	79
	TP24 0.0-0.1	SE237144.042	%	60 - 130%	78
	TP25 0.0-0.1	SE237144.043	%	60 - 130%	79
	TP26 0.0-0.1	SE237144.044	%	60 - 130%	81
	TP27 0.0-0.1	SE237144.045	%	60 - 130%	81
	TP28 0.0-0.1	SE237144.046	%	60 - 130%	81
	TP29 0.0-0.1	SE237144.047	%	60 - 130%	85
	TP30 0.0-0.1	SE237144.048	%	60 - 130%	85
	TP31 0.0-0.1	SE237144.049	%	60 - 130%	85
	TP32 0.0-0.1	SE237144.050	%	60 - 130%	86
	TP33 0.0-0.1	SE237144.051	%	60 - 130%	88
	TP34 0.0-0.1	SE237144.052	%	60 - 130%	91
	TP35 0.0-0.1	SE237144.053	%	60 - 130%	92
	TP36 0.0-0.1	SE237144.054	%	60 - 130%	90
	TP37 0.0-0.1	SE237144.055	%	60 - 130%	91
	TP38 0.0-0.1	SE237144.056	%	60 - 130%	99
	TP39 0.0-0.1	SE237144.057	%	60 - 130%	85
	TP40 0.0-0.1	SE237144.058	%	60 - 130%	89
	QC1	SE237144.059	%	60 - 130%	87
	QC3	SE237144.060	%	60 - 130%	86
	QC5	SE237144.061	%	60 - 130%	86
	QC7	SE237144.062	%	60 - 130%	94
d4-1,2-dichloroethane (Surrogate)	SS1	SE237144.002	%	60 - 130%	80
	SS2	SE237144.003	%	60 - 130%	74
	SS3	SE237144.004	%	60 - 130%	89
	SS4	SE237144.005	%	60 - 130%	71
	SS5	SE237144.006	%	60 - 130%	79
	SS6	SE237144.007	%	60 - 130%	72

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

VOC's in Soil (continued) — **Method: ME-(AU)-[ENV]AN433**

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
d4-1,2-dichloroethane (Surrogate)	SS7	SE237144.008	%	60 - 130%	70
	SS8	SE237144.009	%	60 - 130%	82
	SS9	SE237144.010	%	60 - 130%	77
	SA1 0.0-0.1	SE237144.011	%	60 - 130%	79
	SA2 0.0-0.1	SE237144.012	%	60 - 130%	81
	SA3 0.5-0.6	SE237144.013	%	60 - 130%	83
	SA4 0.0-0.1	SE237144.014	%	60 - 130%	77
	SA5 0.0-0.1	SE237144.015	%	60 - 130%	75
	SA6 0.5-0.6	SE237144.016	%	60 - 130%	81
	SA7 0.0-0.1	SE237144.017	%	60 - 130%	79
	SA8 0.0-0.1	SE237144.018	%	60 - 130%	81
	SA9 0.5-0.6	SE237144.019	%	60 - 130%	91
	SA10 0.0-0.1	SE237144.020	%	60 - 130%	73
	TP1 0.0-0.1	SE237144.021	%	60 - 130%	103
	TP2 0.0-0.2	SE237144.022	%	60 - 130%	79
	TP3 0.0-0.1	SE237144.023	%	60 - 130%	81
	TP4 0.0-0.1	SE237144.024	%	60 - 130%	81
	TP5 0.0-0.1	SE237144.025	%	60 - 130%	86
	TP6 0.0-0.1	SE237144.026	%	60 - 130%	82
	TP8 0.0-0.1	SE237144.027	%	60 - 130%	81
	TP10 0.0-0.1	SE237144.028	%	60 - 130%	82
	TP11 0.0-0.1	SE237144.029	%	60 - 130%	80
	TP12 0.0-0.1	SE237144.030	%	60 - 130%	81
	TP13 0.0-0.1	SE237144.031	%	60 - 130%	80
	TP14 0.0-0.1	SE237144.032	%	60 - 130%	87
	TP15 0.0-0.1	SE237144.033	%	60 - 130%	80
	TP16 0.0-0.1	SE237144.034	%	60 - 130%	76
	TP17 0.0-0.1	SE237144.035	%	60 - 130%	81
	TP18 0.0-0.1	SE237144.036	%	60 - 130%	87
	TP19 0.0-0.1	SE237144.037	%	60 - 130%	78
	TP20 0.0-0.1	SE237144.038	%	60 - 130%	87
	TP21 0.0-0.1	SE237144.039	%	60 - 130%	80
	TP22 0.0-0.1	SE237144.040	%	60 - 130%	77
	TP23 0.0-0.1	SE237144.041	%	60 - 130%	77
	TP24 0.0-0.1	SE237144.042	%	60 - 130%	78
	TP25 0.0-0.1	SE237144.043	%	60 - 130%	80
	TP26 0.0-0.1	SE237144.044	%	60 - 130%	84
	TP27 0.0-0.1	SE237144.045	%	60 - 130%	83
	TP28 0.0-0.1	SE237144.046	%	60 - 130%	82
	TP29 0.0-0.1	SE237144.047	%	60 - 130%	86
	TP30 0.0-0.1	SE237144.048	%	60 - 130%	88
	TP31 0.0-0.1	SE237144.049	%	60 - 130%	87
	TP32 0.0-0.1	SE237144.050	%	60 - 130%	85
	TP33 0.0-0.1	SE237144.051	%	60 - 130%	89
	TP34 0.0-0.1	SE237144.052	%	60 - 130%	103
	TP35 0.0-0.1	SE237144.053	%	60 - 130%	106
	TP36 0.0-0.1	SE237144.054	%	60 - 130%	103
	TP37 0.0-0.1	SE237144.055	%	60 - 130%	105
	TP38 0.0-0.1	SE237144.056	%	60 - 130%	112
	TP39 0.0-0.1	SE237144.057	%	60 - 130%	96
	TP40 0.0-0.1	SE237144.058	%	60 - 130%	99
	QC1	SE237144.059	%	60 - 130%	101
	QC3	SE237144.060	%	60 - 130%	99
	QC5	SE237144.061	%	60 - 130%	101
	QC7	SE237144.062	%	60 - 130%	108
d8-toluene (Surrogate)	SS1	SE237144.002	%	60 - 130%	89
	SS2	SE237144.003	%	60 - 130%	69
	SS3	SE237144.004	%	60 - 130%	98
	SS4	SE237144.005	%	60 - 130%	67
	SS5	SE237144.006	%	60 - 130%	75
	SS6	SE237144.007	%	60 - 130%	66

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

VOC's in Soil (continued) — Method: ME-(AU)-[ENV]AN433

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
d8-toluene (Surrogate)	SS7	SE237144.008	%	60 - 130%	65
	SS8	SE237144.009	%	60 - 130%	77
	SS9	SE237144.010	%	60 - 130%	73
	SA1 0.0-0.1	SE237144.011	%	60 - 130%	72
	SA2 0.0-0.1	SE237144.012	%	60 - 130%	80
	SA3 0.5-0.6	SE237144.013	%	60 - 130%	76
	SA4 0.0-0.1	SE237144.014	%	60 - 130%	72
	SA5 0.0-0.1	SE237144.015	%	60 - 130%	68
	SA6 0.5-0.6	SE237144.016	%	60 - 130%	75
	SA7 0.0-0.1	SE237144.017	%	60 - 130%	74
	SA8 0.0-0.1	SE237144.018	%	60 - 130%	75
	SA9 0.5-0.6	SE237144.019	%	60 - 130%	98
	SA10 0.0-0.1	SE237144.020	%	60 - 130%	66
	TP1 0.0-0.1	SE237144.021	%	60 - 130%	100
	TP2 0.0-0.2	SE237144.022	%	60 - 130%	76
	TP3 0.0-0.1	SE237144.023	%	60 - 130%	76
	TP4 0.0-0.1	SE237144.024	%	60 - 130%	77
	TP5 0.0-0.1	SE237144.025	%	60 - 130%	82
	TP6 0.0-0.1	SE237144.026	%	60 - 130%	78
	TP8 0.0-0.1	SE237144.027	%	60 - 130%	77
	TP10 0.0-0.1	SE237144.028	%	60 - 130%	76
	TP11 0.0-0.1	SE237144.029	%	60 - 130%	75
	TP12 0.0-0.1	SE237144.030	%	60 - 130%	78
	TP13 0.0-0.1	SE237144.031	%	60 - 130%	75
	TP14 0.0-0.1	SE237144.032	%	60 - 130%	84
	TP15 0.0-0.1	SE237144.033	%	60 - 130%	75
	TP16 0.0-0.1	SE237144.034	%	60 - 130%	71
	TP17 0.0-0.1	SE237144.035	%	60 - 130%	77
	TP18 0.0-0.1	SE237144.036	%	60 - 130%	85
	TP19 0.0-0.1	SE237144.037	%	60 - 130%	78
	TP20 0.0-0.1	SE237144.038	%	60 - 130%	88
	TP21 0.0-0.1	SE237144.039	%	60 - 130%	81
	TP22 0.0-0.1	SE237144.040	%	60 - 130%	81
	TP23 0.0-0.1	SE237144.041	%	60 - 130%	77
	TP24 0.0-0.1	SE237144.042	%	60 - 130%	80
	TP25 0.0-0.1	SE237144.043	%	60 - 130%	79
	TP26 0.0-0.1	SE237144.044	%	60 - 130%	81
	TP27 0.0-0.1	SE237144.045	%	60 - 130%	83
	TP28 0.0-0.1	SE237144.046	%	60 - 130%	80
	TP29 0.0-0.1	SE237144.047	%	60 - 130%	90
	TP30 0.0-0.1	SE237144.048	%	60 - 130%	86
	TP31 0.0-0.1	SE237144.049	%	60 - 130%	85
	TP32 0.0-0.1	SE237144.050	%	60 - 130%	90
	TP33 0.0-0.1	SE237144.051	%	60 - 130%	88
	TP34 0.0-0.1	SE237144.052	%	60 - 130%	96
	TP35 0.0-0.1	SE237144.053	%	60 - 130%	99
	TP36 0.0-0.1	SE237144.054	%	60 - 130%	98
	TP37 0.0-0.1	SE237144.055	%	60 - 130%	98
	TP38 0.0-0.1	SE237144.056	%	60 - 130%	108
	TP39 0.0-0.1	SE237144.057	%	60 - 130%	88
	TP40 0.0-0.1	SE237144.058	%	60 - 130%	93
	QC1	SE237144.059	%	60 - 130%	95
	QC3	SE237144.060	%	60 - 130%	93
	QC5	SE237144.061	%	60 - 130%	94
	QC7	SE237144.062	%	60 - 130%	102

VOCs in Water — Method: ME-(AU)-[ENV]AN433

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	SW1	SE237144.001	%	40 - 130%	109
d4-1,2-dichloroethane (Surrogate)	SW1	SE237144.001	%	40 - 130%	102
d8-toluene (Surrogate)	SW1	SE237144.001	%	40 - 130%	96

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Volatile Petroleum Hydrocarbons in Soil — **Method: ME-(AU)-[ENV]AN433**

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	SS1	SE237144.002	%	60 - 130%	95
	SS2	SE237144.003	%	60 - 130%	77
	SS3	SE237144.004	%	60 - 130%	107
	SS4	SE237144.005	%	60 - 130%	76
	SS5	SE237144.006	%	60 - 130%	81
	SS6	SE237144.007	%	60 - 130%	78
	SS7	SE237144.008	%	60 - 130%	75
	SS8	SE237144.009	%	60 - 130%	83
	SS9	SE237144.010	%	60 - 130%	80
	SA1 0.0-0.1	SE237144.011	%	60 - 130%	82
	SA2 0.0-0.1	SE237144.012	%	60 - 130%	87
	SA3 0.5-0.6	SE237144.013	%	60 - 130%	85
	SA4 0.0-0.1	SE237144.014	%	60 - 130%	81
	SA5 0.0-0.1	SE237144.015	%	60 - 130%	78
	SA6 0.5-0.6	SE237144.016	%	60 - 130%	82
	SA7 0.0-0.1	SE237144.017	%	60 - 130%	83
	SA8 0.0-0.1	SE237144.018	%	60 - 130%	82
	SA9 0.5-0.6	SE237144.019	%	60 - 130%	107
	SA10 0.0-0.1	SE237144.020	%	60 - 130%	83
	TP1 0.0-0.1	SE237144.021	%	60 - 130%	109
	TP2 0.0-0.2	SE237144.022	%	60 - 130%	85
	TP3 0.0-0.1	SE237144.023	%	60 - 130%	83
	TP4 0.0-0.1	SE237144.024	%	60 - 130%	81
	TP5 0.0-0.1	SE237144.025	%	60 - 130%	89
	TP6 0.0-0.1	SE237144.026	%	60 - 130%	85
	TP8 0.0-0.1	SE237144.027	%	60 - 130%	82
	TP10 0.0-0.1	SE237144.028	%	60 - 130%	84
	TP11 0.0-0.1	SE237144.029	%	60 - 130%	82
	TP12 0.0-0.1	SE237144.030	%	60 - 130%	83
	TP13 0.0-0.1	SE237144.031	%	60 - 130%	80
	TP14 0.0-0.1	SE237144.032	%	60 - 130%	90
	TP15 0.0-0.1	SE237144.033	%	60 - 130%	81
	TP16 0.0-0.1	SE237144.034	%	60 - 130%	81
	TP17 0.0-0.1	SE237144.035	%	60 - 130%	83
	TP18 0.0-0.1	SE237144.036	%	60 - 130%	84
	TP19 0.0-0.1	SE237144.037	%	60 - 130%	74
	TP20 0.0-0.1	SE237144.038	%	60 - 130%	87
	TP21 0.0-0.1	SE237144.039	%	60 - 130%	78
	TP22 0.0-0.1	SE237144.040	%	60 - 130%	76
	TP23 0.0-0.1	SE237144.041	%	60 - 130%	79
	TP24 0.0-0.1	SE237144.042	%	60 - 130%	78
	TP25 0.0-0.1	SE237144.043	%	60 - 130%	79
	TP26 0.0-0.1	SE237144.044	%	60 - 130%	81
	TP27 0.0-0.1	SE237144.045	%	60 - 130%	81
	TP28 0.0-0.1	SE237144.046	%	60 - 130%	81
	TP29 0.0-0.1	SE237144.047	%	60 - 130%	85
	TP30 0.0-0.1	SE237144.048	%	60 - 130%	85
	TP31 0.0-0.1	SE237144.049	%	60 - 130%	85
	TP32 0.0-0.1	SE237144.050	%	60 - 130%	86
	TP33 0.0-0.1	SE237144.051	%	60 - 130%	88
	TP34 0.0-0.1	SE237144.052	%	60 - 130%	91
	TP35 0.0-0.1	SE237144.053	%	60 - 130%	92
	TP36 0.0-0.1	SE237144.054	%	60 - 130%	90
	TP37 0.0-0.1	SE237144.055	%	60 - 130%	91
	TP38 0.0-0.1	SE237144.056	%	60 - 130%	99
	TP39 0.0-0.1	SE237144.057	%	60 - 130%	85
	TP40 0.0-0.1	SE237144.058	%	60 - 130%	89
	QC1	SE237144.059	%	60 - 130%	87
	QC3	SE237144.060	%	60 - 130%	86
	QC5	SE237144.061	%	60 - 130%	86
	QC7	SE237144.062	%	60 - 130%	94

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Volatile Petroleum Hydrocarbons in Soil (continued) — **Method: ME-(AU)-[ENV]AN433**

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
d4-1,2-dichloroethane (Surrogate)	SS1	SE237144.002	%	60 - 130%	80
	SS2	SE237144.003	%	60 - 130%	74
	SS3	SE237144.004	%	60 - 130%	89
	SS4	SE237144.005	%	60 - 130%	71
	SS5	SE237144.006	%	60 - 130%	79
	SS6	SE237144.007	%	60 - 130%	72
	SS7	SE237144.008	%	60 - 130%	70
	SS8	SE237144.009	%	60 - 130%	82
	SS9	SE237144.010	%	60 - 130%	77
	SA1 0.0-0.1	SE237144.011	%	60 - 130%	79
	SA2 0.0-0.1	SE237144.012	%	60 - 130%	81
	SA3 0.5-0.6	SE237144.013	%	60 - 130%	83
	SA4 0.0-0.1	SE237144.014	%	60 - 130%	77
	SA5 0.0-0.1	SE237144.015	%	60 - 130%	75
	SA6 0.5-0.6	SE237144.016	%	60 - 130%	81
	SA7 0.0-0.1	SE237144.017	%	60 - 130%	79
	SA8 0.0-0.1	SE237144.018	%	60 - 130%	81
	SA9 0.5-0.6	SE237144.019	%	60 - 130%	91
	SA10 0.0-0.1	SE237144.020	%	60 - 130%	73
	TP1 0.0-0.1	SE237144.021	%	60 - 130%	103
	TP2 0.0-0.2	SE237144.022	%	60 - 130%	79
	TP3 0.0-0.1	SE237144.023	%	60 - 130%	81
	TP4 0.0-0.1	SE237144.024	%	60 - 130%	81
	TP5 0.0-0.1	SE237144.025	%	60 - 130%	86
	TP6 0.0-0.1	SE237144.026	%	60 - 130%	82
	TP8 0.0-0.1	SE237144.027	%	60 - 130%	81
	TP10 0.0-0.1	SE237144.028	%	60 - 130%	82
	TP11 0.0-0.1	SE237144.029	%	60 - 130%	80
	TP12 0.0-0.1	SE237144.030	%	60 - 130%	81
	TP13 0.0-0.1	SE237144.031	%	60 - 130%	80
	TP14 0.0-0.1	SE237144.032	%	60 - 130%	87
	TP15 0.0-0.1	SE237144.033	%	60 - 130%	80
	TP16 0.0-0.1	SE237144.034	%	60 - 130%	76
	TP17 0.0-0.1	SE237144.035	%	60 - 130%	81
	TP18 0.0-0.1	SE237144.036	%	60 - 130%	87
	TP19 0.0-0.1	SE237144.037	%	60 - 130%	78
	TP20 0.0-0.1	SE237144.038	%	60 - 130%	87
	TP21 0.0-0.1	SE237144.039	%	60 - 130%	80
	TP22 0.0-0.1	SE237144.040	%	60 - 130%	77
	TP23 0.0-0.1	SE237144.041	%	60 - 130%	77
	TP24 0.0-0.1	SE237144.042	%	60 - 130%	78
	TP25 0.0-0.1	SE237144.043	%	60 - 130%	80
	TP26 0.0-0.1	SE237144.044	%	60 - 130%	84
	TP27 0.0-0.1	SE237144.045	%	60 - 130%	83
	TP28 0.0-0.1	SE237144.046	%	60 - 130%	82
	TP29 0.0-0.1	SE237144.047	%	60 - 130%	86
	TP30 0.0-0.1	SE237144.048	%	60 - 130%	88
	TP31 0.0-0.1	SE237144.049	%	60 - 130%	87
	TP32 0.0-0.1	SE237144.050	%	60 - 130%	85
	TP33 0.0-0.1	SE237144.051	%	60 - 130%	89
	TP34 0.0-0.1	SE237144.052	%	60 - 130%	103
	TP35 0.0-0.1	SE237144.053	%	60 - 130%	106
	TP36 0.0-0.1	SE237144.054	%	60 - 130%	103
	TP37 0.0-0.1	SE237144.055	%	60 - 130%	105
	TP38 0.0-0.1	SE237144.056	%	60 - 130%	112
	TP39 0.0-0.1	SE237144.057	%	60 - 130%	96
	TP40 0.0-0.1	SE237144.058	%	60 - 130%	99
	QC1	SE237144.059	%	60 - 130%	101
	QC3	SE237144.060	%	60 - 130%	99
	QC5	SE237144.061	%	60 - 130%	101
	QC7	SE237144.062	%	60 - 130%	108

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Volatile Petroleum Hydrocarbons in Soil (continued) — **Method: ME-(AU)-[ENV]AN433**

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
d8-toluene (Surrogate)	SS1	SE237144.002	%	60 - 130%	89
	SS2	SE237144.003	%	60 - 130%	69
	SS3	SE237144.004	%	60 - 130%	98
	SS4	SE237144.005	%	60 - 130%	67
	SS5	SE237144.006	%	60 - 130%	75
	SS6	SE237144.007	%	60 - 130%	66
	SS7	SE237144.008	%	60 - 130%	65
	SS8	SE237144.009	%	60 - 130%	77
	SS9	SE237144.010	%	60 - 130%	73
	SA1 0.0-0.1	SE237144.011	%	60 - 130%	72
	SA2 0.0-0.1	SE237144.012	%	60 - 130%	80
	SA3 0.5-0.6	SE237144.013	%	60 - 130%	76
	SA4 0.0-0.1	SE237144.014	%	60 - 130%	72
	SA5 0.0-0.1	SE237144.015	%	60 - 130%	68
	SA6 0.5-0.6	SE237144.016	%	60 - 130%	75
	SA7 0.0-0.1	SE237144.017	%	60 - 130%	74
	SA8 0.0-0.1	SE237144.018	%	60 - 130%	75
	SA9 0.5-0.6	SE237144.019	%	60 - 130%	98
	SA10 0.0-0.1	SE237144.020	%	60 - 130%	66
	TP1 0.0-0.1	SE237144.021	%	60 - 130%	100
	TP2 0.0-0.2	SE237144.022	%	60 - 130%	76
	TP3 0.0-0.1	SE237144.023	%	60 - 130%	76
	TP4 0.0-0.1	SE237144.024	%	60 - 130%	77
	TP5 0.0-0.1	SE237144.025	%	60 - 130%	82
	TP6 0.0-0.1	SE237144.026	%	60 - 130%	78
	TP8 0.0-0.1	SE237144.027	%	60 - 130%	77
	TP10 0.0-0.1	SE237144.028	%	60 - 130%	76
	TP11 0.0-0.1	SE237144.029	%	60 - 130%	75
	TP12 0.0-0.1	SE237144.030	%	60 - 130%	78
	TP13 0.0-0.1	SE237144.031	%	60 - 130%	75
	TP14 0.0-0.1	SE237144.032	%	60 - 130%	84
	TP15 0.0-0.1	SE237144.033	%	60 - 130%	75
	TP16 0.0-0.1	SE237144.034	%	60 - 130%	71
	TP17 0.0-0.1	SE237144.035	%	60 - 130%	77
	TP18 0.0-0.1	SE237144.036	%	60 - 130%	85
	TP19 0.0-0.1	SE237144.037	%	60 - 130%	78
	TP20 0.0-0.1	SE237144.038	%	60 - 130%	88
	TP21 0.0-0.1	SE237144.039	%	60 - 130%	81
	TP22 0.0-0.1	SE237144.040	%	60 - 130%	81
	TP23 0.0-0.1	SE237144.041	%	60 - 130%	77
	TP24 0.0-0.1	SE237144.042	%	60 - 130%	80
	TP25 0.0-0.1	SE237144.043	%	60 - 130%	79
	TP26 0.0-0.1	SE237144.044	%	60 - 130%	81
	TP27 0.0-0.1	SE237144.045	%	60 - 130%	83
	TP28 0.0-0.1	SE237144.046	%	60 - 130%	80
	TP29 0.0-0.1	SE237144.047	%	60 - 130%	90
	TP30 0.0-0.1	SE237144.048	%	60 - 130%	86
	TP31 0.0-0.1	SE237144.049	%	60 - 130%	85
	TP32 0.0-0.1	SE237144.050	%	60 - 130%	90
	TP33 0.0-0.1	SE237144.051	%	60 - 130%	88
	TP34 0.0-0.1	SE237144.052	%	60 - 130%	96
	TP35 0.0-0.1	SE237144.053	%	60 - 130%	99
	TP36 0.0-0.1	SE237144.054	%	60 - 130%	98
	TP37 0.0-0.1	SE237144.055	%	60 - 130%	98
	TP38 0.0-0.1	SE237144.056	%	60 - 130%	108
	TP39 0.0-0.1	SE237144.057	%	60 - 130%	88
	TP40 0.0-0.1	SE237144.058	%	60 - 130%	93
	QC1	SE237144.059	%	60 - 130%	95
	QC3	SE237144.060	%	60 - 130%	93
	QC5	SE237144.061	%	60 - 130%	94
	QC7	SE237144.062	%	60 - 130%	102

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Volatile Petroleum Hydrocarbons in Water — **Method: ME-(AU)-[ENV]AN433**

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	SW1	SE237144.001	%	40 - 130%	109
d4-1,2-dichloroethane (Surrogate)	SW1	SE237144.001	%	60 - 130%	102
d8-toluene (Surrogate)	SW1	SE237144.001	%	40 - 130%	96

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Exchangeable Cations and Cation Exchange Capacity (CEC/ESP/SAR)

Method: ME-(AU)-[ENV]AN122

Sample Number	Parameter	Units	LOR	Result
LB260019.001	Exchangeable Sodium, Na	mg/kg	2	0.2879
	Exchangeable Potassium, K	mg/kg	2	-0.0903
	Exchangeable Calcium, Ca	mg/kg	2	-0.1882
	Exchangeable Magnesium, Mg	mg/kg	2	-0.0536

Mercury (dissolved) in Water

Method: ME-(AU)-[ENV]AN311(Perth)/AN312

Sample Number	Parameter	Units	LOR	Result
LB259392.001	Mercury	mg/L	0.0001	<0.0001

Mercury in Soil

Method: ME-(AU)-[ENV]AN312

Sample Number	Parameter	Units	LOR	Result
LB259761.001	Mercury	mg/kg	0.05	<0.05
LB259762.001	Mercury	mg/kg	0.05	<0.05
LB259763.001	Mercury	mg/kg	0.05	<0.05
LB259764.001	Mercury	mg/kg	0.05	<0.05

OC Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result
LB259640.001		Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1
		Alpha BHC	mg/kg	0.1	<0.1
		Lindane	mg/kg	0.1	<0.1
		Heptachlor	mg/kg	0.1	<0.1
		Aldrin	mg/kg	0.1	<0.1
		Beta BHC	mg/kg	0.1	<0.1
		Delta BHC	mg/kg	0.1	<0.1
		Heptachlor epoxide	mg/kg	0.1	<0.1
		Alpha Endosulfan	mg/kg	0.2	<0.2
		Gamma Chlordane	mg/kg	0.1	<0.1
		Alpha Chlordane	mg/kg	0.1	<0.1
		p,p'-DDE	mg/kg	0.1	<0.1
		Dieldrin	mg/kg	0.2	<0.2
		Endrin	mg/kg	0.2	<0.2
		Beta Endosulfan	mg/kg	0.2	<0.2
		p,p'-DDD	mg/kg	0.1	<0.1
		p,p'-DDT	mg/kg	0.1	<0.1
		Endosulfan sulphate	mg/kg	0.1	<0.1
		Endrin Aldehyde	mg/kg	0.1	<0.1
		Methoxychlor	mg/kg	0.1	<0.1
		Endrin Ketone	mg/kg	0.1	<0.1
		Isodrin	mg/kg	0.1	<0.1
		Mirex	mg/kg	0.1	<0.1
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	85
LB259641.001		Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1
		Alpha BHC	mg/kg	0.1	<0.1
		Lindane	mg/kg	0.1	<0.1
		Heptachlor	mg/kg	0.1	<0.1
		Aldrin	mg/kg	0.1	<0.1
		Beta BHC	mg/kg	0.1	<0.1
		Delta BHC	mg/kg	0.1	<0.1
		Heptachlor epoxide	mg/kg	0.1	<0.1
		Alpha Endosulfan	mg/kg	0.2	<0.2
		Gamma Chlordane	mg/kg	0.1	<0.1
		Alpha Chlordane	mg/kg	0.1	<0.1
		p,p'-DDE	mg/kg	0.1	<0.1
		Dieldrin	mg/kg	0.2	<0.2
		Endrin	mg/kg	0.2	<0.2
		Beta Endosulfan	mg/kg	0.2	<0.2
		p,p'-DDD	mg/kg	0.1	<0.1
		p,p'-DDT	mg/kg	0.1	<0.1
		Endosulfan sulphate	mg/kg	0.1	<0.1

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

OC Pesticides in Soil (continued)

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result
LB259641.001		Endrin Aldehyde	mg/kg	0.1	<0.1
		Methoxychlor	mg/kg	0.1	<0.1
		Endrin Ketone	mg/kg	0.1	<0.1
		Isodrin	mg/kg	0.1	<0.1
		Mirex	mg/kg	0.1	<0.1
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	108
LB259642.001		Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1
		Alpha BHC	mg/kg	0.1	<0.1
		Lindane	mg/kg	0.1	<0.1
		Heptachlor	mg/kg	0.1	<0.1
		Aldrin	mg/kg	0.1	<0.1
		Beta BHC	mg/kg	0.1	<0.1
		Delta BHC	mg/kg	0.1	<0.1
		Heptachlor epoxide	mg/kg	0.1	<0.1
		Alpha Endosulfan	mg/kg	0.2	<0.2
		Gamma Chlordane	mg/kg	0.1	<0.1
		Alpha Chlordane	mg/kg	0.1	<0.1
		p,p'-DDE	mg/kg	0.1	<0.1
		Dieldrin	mg/kg	0.2	<0.2
		Endrin	mg/kg	0.2	<0.2
		Beta Endosulfan	mg/kg	0.2	<0.2
		p,p'-DDD	mg/kg	0.1	<0.1
		p,p'-DDT	mg/kg	0.1	<0.1
		Endosulfan sulphate	mg/kg	0.1	<0.1
		Endrin Aldehyde	mg/kg	0.1	<0.1
		Methoxychlor	mg/kg	0.1	<0.1
		Endrin Ketone	mg/kg	0.1	<0.1
		Isodrin	mg/kg	0.1	<0.1
		Mirex	mg/kg	0.1	<0.1
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	97

OC Pesticides in Water

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result
LB259608.001		Alpha BHC	µg/L	0.1	<0.1
		Hexachlorobenzene (HCB)	µg/L	0.1	<0.1
		Beta BHC	µg/L	0.1	<0.1
		Lindane (gamma BHC)	µg/L	0.1	<0.1
		Delta BHC	µg/L	0.1	<0.1
		Heptachlor	µg/L	0.1	<0.1
		Aldrin	µg/L	0.1	<0.1
		Heptachlor epoxide	µg/L	0.1	<0.1
		Gamma Chlordane	µg/L	0.1	<0.1
		Alpha Chlordane	µg/L	0.1	<0.1
		Alpha Endosulfan	µg/L	0.1	<0.1
		p,p'-DDE	µg/L	0.1	<0.1
		Dieldrin	µg/L	0.1	<0.1
		Endrin	µg/L	0.1	<0.1
		Beta Endosulfan	µg/L	0.1	<0.1
		p,p'-DDD	µg/L	0.1	<0.1
		Endosulfan sulphate	µg/L	0.1	<0.1
		p,p'-DDT	µg/L	0.1	<0.1
		Endrin ketone	µg/L	0.1	<0.1
		Methoxychlor	µg/L	0.1	<0.1
		Endrin aldehyde	µg/L	0.1	<0.1
		Isodrin	µg/L	0.1	<0.1
		Mirex	µg/L	0.1	<0.1
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	113

OP Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

OP Pesticides in Soil (continued)

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result
LB259640.001		Dichlorvos	mg/kg	0.5	<0.5
		Dimethoate	mg/kg	0.5	<0.5
		Diazinon (Dimpylate)	mg/kg	0.5	<0.5
		Fenitrothion	mg/kg	0.2	<0.2
		Malathion	mg/kg	0.2	<0.2
		Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2
		Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2
		Bromophos Ethyl	mg/kg	0.2	<0.2
		Methidathion	mg/kg	0.5	<0.5
		Ethion	mg/kg	0.2	<0.2
		Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2
	Surrogates	2-fluorobiphenyl (Surrogate)	%	-	94
		d14-p-terphenyl (Surrogate)	%	-	110
LB259641.001		Dichlorvos	mg/kg	0.5	<0.5
		Dimethoate	mg/kg	0.5	<0.5
		Diazinon (Dimpylate)	mg/kg	0.5	<0.5
		Fenitrothion	mg/kg	0.2	<0.2
		Malathion	mg/kg	0.2	<0.2
		Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2
		Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2
		Bromophos Ethyl	mg/kg	0.2	<0.2
		Methidathion	mg/kg	0.5	<0.5
		Ethion	mg/kg	0.2	<0.2
		Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2
	Surrogates	2-fluorobiphenyl (Surrogate)	%	-	84
		d14-p-terphenyl (Surrogate)	%	-	80
LB259642.001		Dichlorvos	mg/kg	0.5	<0.5
		Dimethoate	mg/kg	0.5	<0.5
		Diazinon (Dimpylate)	mg/kg	0.5	<0.5
		Fenitrothion	mg/kg	0.2	<0.2
		Malathion	mg/kg	0.2	<0.2
		Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2
		Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2
		Bromophos Ethyl	mg/kg	0.2	<0.2
		Methidathion	mg/kg	0.5	<0.5
		Ethion	mg/kg	0.2	<0.2
		Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2
	Surrogates	2-fluorobiphenyl (Surrogate)	%	-	75
		d14-p-terphenyl (Surrogate)	%	-	83

OP Pesticides in Water

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result
LB259608.001		Dichlorvos	µg/L	0.5	<0.5
		Dimethoate	µg/L	0.5	<0.5
		Diazinon (Dimpylate)	µg/L	0.5	<0.5
		Fenitrothion	µg/L	0.2	<0.2
		Malathion	µg/L	0.2	<0.2
		Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	<0.2
		Parathion-ethyl (Parathion)	µg/L	0.2	<0.2
		Bromophos Ethyl	µg/L	0.2	<0.2
		Methidathion	µg/L	0.5	<0.5
		Ethion	µg/L	0.2	<0.2
		Azinphos-methyl	µg/L	0.2	<0.2
	Surrogates	2-fluorobiphenyl (Surrogate)	%	-	70
		d14-p-terphenyl (Surrogate)	%	-	88

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result
LB259640.001	Naphthalene	mg/kg	0.1	<0.1
	2-methylnaphthalene	mg/kg	0.1	<0.1
	1-methylnaphthalene	mg/kg	0.1	<0.1
	Acenaphthylene	mg/kg	0.1	<0.1

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued) — Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result
LB259640.001		Acenaphthene	mg/kg	0.1	<0.1
		Fluorene	mg/kg	0.1	<0.1
		Phenanthrene	mg/kg	0.1	<0.1
		Anthracene	mg/kg	0.1	<0.1
		Fluoranthene	mg/kg	0.1	<0.1
		Pyrene	mg/kg	0.1	<0.1
		Benzo(a)anthracene	mg/kg	0.1	<0.1
		Chrysene	mg/kg	0.1	<0.1
		Benzo(a)pyrene	mg/kg	0.1	<0.1
		Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1
		Dibenzo(ah)anthracene	mg/kg	0.1	<0.1
		Benzo(ghi)perylene	mg/kg	0.1	<0.1
		Total PAH (18)	mg/kg	0.8	<0.8
	Surrogates	d5-nitrobenzene (Surrogate)	%	-	109
		2-fluorobiphenyl (Surrogate)	%	-	94
		d14-p-terphenyl (Surrogate)	%	-	110
LB259641.001		Naphthalene	mg/kg	0.1	<0.1
		2-methylnaphthalene	mg/kg	0.1	<0.1
		1-methylnaphthalene	mg/kg	0.1	<0.1
		Acenaphthylene	mg/kg	0.1	<0.1
		Acenaphthene	mg/kg	0.1	<0.1
		Fluorene	mg/kg	0.1	<0.1
		Phenanthrene	mg/kg	0.1	<0.1
		Anthracene	mg/kg	0.1	<0.1
		Fluoranthene	mg/kg	0.1	<0.1
		Pyrene	mg/kg	0.1	<0.1
		Benzo(a)anthracene	mg/kg	0.1	<0.1
		Chrysene	mg/kg	0.1	<0.1
		Benzo(a)pyrene	mg/kg	0.1	<0.1
		Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1
		Dibenzo(ah)anthracene	mg/kg	0.1	<0.1
		Benzo(ghi)perylene	mg/kg	0.1	<0.1
		Total PAH (18)	mg/kg	0.8	<0.8
	Surrogates	d5-nitrobenzene (Surrogate)	%	-	87
		2-fluorobiphenyl (Surrogate)	%	-	84
		d14-p-terphenyl (Surrogate)	%	-	80
LB259642.001		Naphthalene	mg/kg	0.1	<0.1
		2-methylnaphthalene	mg/kg	0.1	<0.1
		1-methylnaphthalene	mg/kg	0.1	<0.1
		Acenaphthylene	mg/kg	0.1	<0.1
		Acenaphthene	mg/kg	0.1	<0.1
		Fluorene	mg/kg	0.1	<0.1
		Phenanthrene	mg/kg	0.1	<0.1
		Anthracene	mg/kg	0.1	<0.1
		Fluoranthene	mg/kg	0.1	<0.1
		Pyrene	mg/kg	0.1	<0.1
		Benzo(a)anthracene	mg/kg	0.1	<0.1
		Chrysene	mg/kg	0.1	<0.1
		Benzo(a)pyrene	mg/kg	0.1	<0.1
		Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1
		Dibenzo(ah)anthracene	mg/kg	0.1	<0.1
		Benzo(ghi)perylene	mg/kg	0.1	<0.1
		Total PAH (18)	mg/kg	0.8	<0.8
	Surrogates	d5-nitrobenzene (Surrogate)	%	-	89
		2-fluorobiphenyl (Surrogate)	%	-	75
		d14-p-terphenyl (Surrogate)	%	-	83

PAH (Polynuclear Aromatic Hydrocarbons) in Water — Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

PAH (Polynuclear Aromatic Hydrocarbons) in Water (continued) — Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result
LB259608.001		Naphthalene	µg/L	0.1	<0.1
		2-methylnaphthalene	µg/L	0.1	<0.1
		1-methylnaphthalene	µg/L	0.1	<0.1
		Acenaphthylene	µg/L	0.1	<0.1
		Acenaphthene	µg/L	0.1	<0.1
		Fluorene	µg/L	0.1	<0.1
		Phenanthrene	µg/L	0.1	<0.1
		Anthracene	µg/L	0.1	<0.1
		Fluoranthene	µg/L	0.1	<0.1
		Pyrene	µg/L	0.1	<0.1
		Benzo(a)anthracene	µg/L	0.1	<0.1
		Chrysene	µg/L	0.1	<0.1
		Benzo(a)pyrene	µg/L	0.1	<0.1
		Indeno(1,2,3-cd)pyrene	µg/L	0.1	<0.1
		Dibenzo(ah)anthracene	µg/L	0.1	<0.1
		Benzo(ghi)perylene	µg/L	0.1	<0.1
	Surrogates	d5-nitrobenzene (Surrogate)	%	-	62
		2-fluorobiphenyl (Surrogate)	%	-	70
		d14-p-terphenyl (Surrogate)	%	-	88

PCBs in Soil — Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result
LB259640.001		Arochlor 1016	mg/kg	0.2	<0.2
		Arochlor 1221	mg/kg	0.2	<0.2
		Arochlor 1232	mg/kg	0.2	<0.2
		Arochlor 1242	mg/kg	0.2	<0.2
		Arochlor 1248	mg/kg	0.2	<0.2
		Arochlor 1254	mg/kg	0.2	<0.2
		Arochlor 1260	mg/kg	0.2	<0.2
		Arochlor 1262	mg/kg	0.2	<0.2
		Arochlor 1268	mg/kg	0.2	<0.2
		Total PCBs (Arochlors)	mg/kg	1	<1
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	85
LB259641.001		Arochlor 1016	mg/kg	0.2	<0.2
		Arochlor 1221	mg/kg	0.2	<0.2
		Arochlor 1232	mg/kg	0.2	<0.2
		Arochlor 1242	mg/kg	0.2	<0.2
		Arochlor 1248	mg/kg	0.2	<0.2
		Arochlor 1254	mg/kg	0.2	<0.2
		Arochlor 1260	mg/kg	0.2	<0.2
		Arochlor 1262	mg/kg	0.2	<0.2
		Arochlor 1268	mg/kg	0.2	<0.2
		Total PCBs (Arochlors)	mg/kg	1	<1
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	108
LB259642.001		Arochlor 1016	mg/kg	0.2	<0.2
		Arochlor 1221	mg/kg	0.2	<0.2
		Arochlor 1232	mg/kg	0.2	<0.2
		Arochlor 1242	mg/kg	0.2	<0.2
		Arochlor 1248	mg/kg	0.2	<0.2
		Arochlor 1254	mg/kg	0.2	<0.2
		Arochlor 1260	mg/kg	0.2	<0.2
		Arochlor 1262	mg/kg	0.2	<0.2
		Arochlor 1268	mg/kg	0.2	<0.2
		Total PCBs (Arochlors)	mg/kg	1	<1
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	97

PCBs in Water — Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result
LB259608.001		Arochlor 1016	µg/L	1	<1
		Arochlor 1221	µg/L	1	<1
		Arochlor 1232	µg/L	1	<1
		Arochlor 1242	µg/L	1	<1

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

PCBs in Water (continued)

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result
LB259608.001	Arochlor 1248	µg/L	1	<1
	Arochlor 1254	µg/L	1	<1
	Arochlor 1260	µg/L	1	<1
	Arochlor 1262	µg/L	1	<1
	Arochlor 1268	µg/L	1	<1

Speciated Phenols in Soil

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result
LB259640.001		Phenol	mg/kg	0.5	<0.5
		2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5
		3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1
		2-chlorophenol	mg/kg	0.5	<0.5
		2,4-dimethylphenol	mg/kg	0.5	<0.5
		2,6-dichlorophenol	mg/kg	0.5	<0.5
		2,4-dichlorophenol	mg/kg	0.5	<0.5
		2,4,6-trichlorophenol	mg/kg	0.5	<0.5
		2-nitrophenol	mg/kg	0.5	<0.5
		4-nitrophenol	mg/kg	1	<1
		2,4,5-trichlorophenol	mg/kg	0.5	<0.5
		2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1
		Pentachlorophenol	mg/kg	0.5	<0.5
		2,4-dinitrophenol	mg/kg	2	<2
		4-chloro-3-methylphenol	mg/kg	2	<2
	Surrogates	2,4,6-Tribromophenol (Surrogate)	%	-	85
		d5-phenol (Surrogate)	%	-	96
LB259641.001		Phenol	mg/kg	0.5	<0.5
		2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5
		3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1
		2-chlorophenol	mg/kg	0.5	<0.5
		2,4-dimethylphenol	mg/kg	0.5	<0.5
		2,6-dichlorophenol	mg/kg	0.5	<0.5
		2,4-dichlorophenol	mg/kg	0.5	<0.5
		2,4,6-trichlorophenol	mg/kg	0.5	<0.5
		2-nitrophenol	mg/kg	0.5	<0.5
		4-nitrophenol	mg/kg	1	<1
		2,4,5-trichlorophenol	mg/kg	0.5	<0.5
		2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1
		Pentachlorophenol	mg/kg	0.5	<0.5
		2,4-dinitrophenol	mg/kg	2	<2
		4-chloro-3-methylphenol	mg/kg	2	<2
	Surrogates	2,4,6-Tribromophenol (Surrogate)	%	-	82
		d5-phenol (Surrogate)	%	-	82
LB259642.001		Phenol	mg/kg	0.5	<0.5
		2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5
		3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1
		2-chlorophenol	mg/kg	0.5	<0.5
		2,4-dimethylphenol	mg/kg	0.5	<0.5
		2,6-dichlorophenol	mg/kg	0.5	<0.5
		2,4-dichlorophenol	mg/kg	0.5	<0.5
		2,4,6-trichlorophenol	mg/kg	0.5	<0.5
		2-nitrophenol	mg/kg	0.5	<0.5
		4-nitrophenol	mg/kg	1	<1
		2,4,5-trichlorophenol	mg/kg	0.5	<0.5
		2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1
		Pentachlorophenol	mg/kg	0.5	<0.5
		2,4-dinitrophenol	mg/kg	2	<2
		4-chloro-3-methylphenol	mg/kg	2	<2
	Surrogates	2,4,6-Tribromophenol (Surrogate)	%	-	90
		d5-phenol (Surrogate)	%	-	81

Speciated Phenols in Water

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Speciated Phenols in Water (continued)

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result
LB259608.001		Phenol	µg/L	0.5	<0.5
		2-methyl phenol (o-cresol)	µg/L	0.5	<0.5
		3/4-methyl phenol (m/p-cresol)	µg/L	1	<1
		2-chlorophenol	µg/L	0.5	<0.5
		2,4-dimethylphenol	µg/L	0.5	<0.5
		2,6-dichlorophenol	µg/L	0.5	<0.5
		2,4-dichlorophenol	µg/L	0.5	<0.5
		2,4,6-trichlorophenol	µg/L	0.5	<0.5
		2-nitrophenol	µg/L	0.5	<0.5
		4-nitrophenol	µg/L	1	<1
		2,4,5-trichlorophenol	µg/L	0.5	<0.5
		2,3,4,6/2,3,5,6-tetrachlorophenol	µg/L	1	<1
		Pentachlorophenol	µg/L	0.5	<0.5
		2,4-dinitrophenol	µg/L	2	<2
		4-chloro-3-methylphenol	µg/L	2	<2
	Surrogates	2,4,6-Tribromophenol (Surrogate)	%	-	87
		d5-phenol (Surrogate)	%	-	98

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

Method: ME-(AU)-[ENV]AN040/AN320

Sample Number	Parameter	Units	LOR	Result
LB259756.001	Arsenic, As	mg/kg	1	<1
	Cadmium, Cd	mg/kg	0.3	<0.3
	Chromium, Cr	mg/kg	0.5	<0.5
	Copper, Cu	mg/kg	0.5	<0.5
	Nickel, Ni	mg/kg	0.5	<0.5
	Lead, Pb	mg/kg	1	<1
	Zinc, Zn	mg/kg	2	<2.0
LB259757.001	Arsenic, As	mg/kg	1	<1
	Cadmium, Cd	mg/kg	0.3	<0.3
	Chromium, Cr	mg/kg	0.5	<0.5
	Copper, Cu	mg/kg	0.5	<0.5
	Nickel, Ni	mg/kg	0.5	<0.5
	Lead, Pb	mg/kg	1	<1
	Zinc, Zn	mg/kg	2	<2.0
LB259758.001	Arsenic, As	mg/kg	1	<1
	Cadmium, Cd	mg/kg	0.3	<0.3
	Chromium, Cr	mg/kg	0.5	<0.5
	Copper, Cu	mg/kg	0.5	<0.5
	Nickel, Ni	mg/kg	0.5	<0.5
	Lead, Pb	mg/kg	1	<1
	Zinc, Zn	mg/kg	2	<2.0
LB259760.001	Arsenic, As	mg/kg	1	<1
	Cadmium, Cd	mg/kg	0.3	<0.3
	Chromium, Cr	mg/kg	0.5	<0.5
	Copper, Cu	mg/kg	0.5	<0.5
	Nickel, Ni	mg/kg	0.5	<0.5
	Lead, Pb	mg/kg	1	<1
	Zinc, Zn	mg/kg	2	<2.0

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

Sample Number	Parameter	Units	LOR	Result
LB259733.001	Arsenic	µg/L	1	<1
	Cadmium	µg/L	0.1	<0.1
	Chromium	µg/L	1	<1
	Copper	µg/L	1	<1
	Lead	µg/L	1	<1
	Nickel	µg/L	1	<1
	Zinc	µg/L	5	<5
LB259733.025	Arsenic	µg/L	1	<1
	Cadmium	µg/L	0.1	<0.1
	Chromium	µg/L	1	<1
	Copper	µg/L	1	<1

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Trace Metals (Dissolved) in Water by ICPMS (continued)

Method: ME-(AU)-[ENV]AN318

Sample Number	Parameter	Units	LOR	Result
LB259733.025	Lead	µg/L	1	<1
	Nickel	µg/L	1	<1
	Zinc	µg/L	5	<5

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

Sample Number	Parameter	Units	LOR	Result
LB259640.001	TRH C10-C14	mg/kg	20	<20
	TRH C15-C28	mg/kg	45	<45
	TRH C29-C36	mg/kg	45	<45
	TRH C37-C40	mg/kg	100	<100
	TRH C10-C36 Total	mg/kg	110	<110
LB259641.001	TRH C10-C14	mg/kg	20	<20
	TRH C15-C28	mg/kg	45	<45
	TRH C29-C36	mg/kg	45	<45
	TRH C37-C40	mg/kg	100	<100
	TRH C10-C36 Total	mg/kg	110	<110
LB259642.001	TRH C10-C14	mg/kg	20	<20
	TRH C15-C28	mg/kg	45	<45
	TRH C29-C36	mg/kg	45	<45
	TRH C37-C40	mg/kg	100	<100
	TRH C10-C36 Total	mg/kg	110	<110

TRH (Total Recoverable Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN403

Sample Number	Parameter	Units	LOR	Result
LB259608.001	TRH C10-C14	µg/L	50	<50
	TRH C15-C28	µg/L	200	<200
	TRH C29-C36	µg/L	200	<200
	TRH C37-C40	µg/L	200	<200

VOC's in Soil

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result
LB259664.001	Monocyclic Aromatic Hydrocarbons	Benzene	mg/kg	0.1	<0.1
		Toluene	mg/kg	0.1	<0.1
		Ethylbenzene	mg/kg	0.1	<0.1
		m/p-xylene	mg/kg	0.2	<0.2
		o-xylene	mg/kg	0.1	<0.1
	Polycyclic VOCs	Naphthalene (VOC)	mg/kg	0.1	<0.1
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	91
		d8-toluene (Surrogate)	%	-	86
		Bromofluorobenzene (Surrogate)	%	-	98
	Totals	Total BTEX	mg/kg	0.6	<0.6
LB259665.001	Monocyclic Aromatic Hydrocarbons	Benzene	mg/kg	0.1	<0.1
		Toluene	mg/kg	0.1	<0.1
		Ethylbenzene	mg/kg	0.1	<0.1
		m/p-xylene	mg/kg	0.2	<0.2
		o-xylene	mg/kg	0.1	<0.1
	Polycyclic VOCs	Naphthalene (VOC)	mg/kg	0.1	<0.1
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	90
		d8-toluene (Surrogate)	%	-	85
		Bromofluorobenzene (Surrogate)	%	-	90
	Totals	Total BTEX	mg/kg	0.6	<0.6
LB259666.001	Monocyclic Aromatic Hydrocarbons	Benzene	mg/kg	0.1	<0.1
		Toluene	mg/kg	0.1	<0.1
		Ethylbenzene	mg/kg	0.1	<0.1
		m/p-xylene	mg/kg	0.2	<0.2
		o-xylene	mg/kg	0.1	<0.1
	Polycyclic VOCs	Naphthalene (VOC)	mg/kg	0.1	<0.1
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	88
		d8-toluene (Surrogate)	%	-	93
		Bromofluorobenzene (Surrogate)	%	-	90
	Totals	Total BTEX	mg/kg	0.6	<0.6

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

VOCs in Water

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result
LB259754.001	Monocyclic Aromatic Hydrocarbons	Benzene	µg/L	0.5	<0.5
		Toluene	µg/L	0.5	<0.5
		Ethylbenzene	µg/L	0.5	<0.5
		m/p-xylene	µg/L	1	<1
		o-xylene	µg/L	0.5	<0.5
	Polycyclic VOCs	Naphthalene (VOC)	µg/L	0.5	<0.5
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	96
		d8-toluene (Surrogate)	%	-	98
		Bromofluorobenzene (Surrogate)	%	-	99

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result
LB259664.001		TRH C6-C9	mg/kg	20	<20
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	91
LB259665.001		TRH C6-C9	mg/kg	20	<20
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	90
LB259666.001		TRH C6-C9	mg/kg	20	<20
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	88

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result
LB259754.001		TRH C6-C9	µg/L	40	<40
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	96
		d8-toluene (Surrogate)	%	-	98
		Bromofluorobenzene (Surrogate)	%	-	99

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

Mercury (dissolved) in Water

Method: ME-(AU)-[ENV]AN311(Perth)/AN312

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE237160.001	LB259392.014	Mercury	µg/L	0.0001	<0.0001	<0.0001	200	0
SE237160.006	LB259392.020	Mercury	µg/L	0.0001	<0.0001	<0.0001	200	0

Mercury in Soil

Method: ME-(AU)-[ENV]AN312

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE237142.006	LB259764.024	Mercury	mg/kg	0.05	<0.05	<0.05	200	0
SE237144.011	LB259761.014	Mercury	mg/kg	0.05	<0.05	<0.05	200	0
SE237144.020	LB259761.024	Mercury	mg/kg	0.05	<0.05	<0.05	200	0
SE237144.030	LB259762.014	Mercury	mg/kg	0.05	<0.05	<0.05	200	0
SE237144.039	LB259762.024	Mercury	mg/kg	0.05	<0.05	<0.05	200	0
SE237144.049	LB259763.014	Mercury	mg/kg	0.05	<0.05	<0.05	200	0
SE237144.058	LB259763.024	Mercury	mg/kg	0.05	<0.05	<0.05	200	0
SE237284.025	LB259764.014	Mercury	mg/kg	0.05	<0.05	<0.05	200	0

Moisture Content

Method: ME-(AU)-[ENV]AN002

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE237144.011	LB259677.011	% Moisture	%w/w	1	23.2	20.3	35	13
SE237144.020	LB259677.021	% Moisture	%w/w	1	15.1	15.1	37	0
SE237144.030	LB259678.011	% Moisture	%w/w	1	27.6	27.5	34	0
SE237144.040	LB259678.022	% Moisture	%w/w	1	27.3	26.2	34	4
SE237144.050	LB259679.011	% Moisture	%w/w	1	18.7	19.5	35	4
SE237144.060	LB259679.022	% Moisture	%w/w	1	25.8	22.5	34	14
SE237144.062	LB259679.025	% Moisture	%w/w	1	16.3	20.3	35	22

OC Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE237144.011	LB259640.014		Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	200	0
			Alpha BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Lindane	mg/kg	0.1	<0.1	<0.1	200	0
			Heptachlor	mg/kg	0.1	<0.1	<0.1	200	0
			Aldrin	mg/kg	0.1	<0.1	<0.1	200	0
			Beta BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Delta BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	200	0
			o,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0
			Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
			Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
			Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
			trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0
			Dieldrin	mg/kg	0.2	<0.2	<0.2	200	0
			Endrin	mg/kg	0.2	<0.2	<0.2	200	0
			o,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0
			o,p'-DDT	mg/kg	0.1	<0.1	<0.1	200	0
			Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
			p,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDT	mg/kg	0.1	<0.1	<0.1	200	0
			Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	200	0
			Methoxychlor	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin Ketone	mg/kg	0.1	<0.1	<0.1	200	0
			Isodrin	mg/kg	0.1	<0.1	<0.1	200	0
			Mirex	mg/kg	0.1	<0.1	<0.1	200	0
			Total CLP OC Pesticides	mg/kg	1	<1	<1	200	0
			Total OC VIC EPA	mg/kg	1	<1	<1	200	0
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.15	0.14	30	5
SE237144.020	LB259640.024		Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	200	0
			Alpha BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Lindane	mg/kg	0.1	<0.1	<0.1	200	0
			Heptachlor	mg/kg	0.1	<0.1	<0.1	200	0
			Aldrin	mg/kg	0.1	<0.1	<0.1	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

OC Pesticides in Soil (continued) — **Method: ME-(AU)-[ENV]AN420**

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE237144.020	LB259640.024		Beta BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Delta BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	200	0
			o,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0
			Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
			Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
			Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
			trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0
			Dieldrin	mg/kg	0.2	<0.2	<0.2	200	0
			Endrin	mg/kg	0.2	<0.2	<0.2	200	0
			o,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0
			o,p'-DDT	mg/kg	0.1	<0.1	<0.1	200	0
			Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
			p,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDT	mg/kg	0.1	<0.1	<0.1	200	0
			Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	200	0
			Methoxychlor	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin Ketone	mg/kg	0.1	<0.1	<0.1	200	0
			Isodrin	mg/kg	0.1	<0.1	<0.1	200	0
			Mirex	mg/kg	0.1	<0.1	<0.1	200	0
			Total CLP OC Pesticides	mg/kg	1	<1	<1	200	0
			Total OC VIC EPA	mg/kg	1	<1	<1	200	0
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.13	0.14	30	5
SE237144.030	LB259641.014		Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	200	0
			Alpha BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Lindane	mg/kg	0.1	<0.1	<0.1	200	0
			Heptachlor	mg/kg	0.1	<0.1	<0.1	200	0
			Aldrin	mg/kg	0.1	<0.1	<0.1	200	0
			Beta BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Delta BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	200	0
			o,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0
			Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
			Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
			Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
			trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0
			Dieldrin	mg/kg	0.2	<0.2	<0.2	200	0
			Endrin	mg/kg	0.2	<0.2	<0.2	200	0
			o,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0
			o,p'-DDT	mg/kg	0.1	<0.1	<0.1	200	0
			Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
			p,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDT	mg/kg	0.1	<0.1	<0.1	200	0
			Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	200	0
			Methoxychlor	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin Ketone	mg/kg	0.1	<0.1	<0.1	200	0
			Isodrin	mg/kg	0.1	<0.1	<0.1	200	0
			Mirex	mg/kg	0.1	<0.1	<0.1	200	0
			Total CLP OC Pesticides	mg/kg	1	<1	<1	200	0
			Total OC VIC EPA	mg/kg	1	<1	<1	200	0
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.16	0.15	30	10
SE237144.040	LB259641.025		Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	200	0
			Alpha BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Lindane	mg/kg	0.1	<0.1	<0.1	200	0
			Heptachlor	mg/kg	0.1	<0.1	<0.1	200	0
			Aldrin	mg/kg	0.1	<0.1	<0.1	200	0
			Beta BHC	mg/kg	0.1	<0.1	<0.1	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

OC Pesticides in Soil (continued) — **Method: ME-(AU)-[ENV]AN420**

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE237144.040	LB259641.025		Delta BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	200	0
			o,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0
			Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
			Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
			Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
			trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0
			Dieldrin	mg/kg	0.2	<0.2	<0.2	200	0
			Endrin	mg/kg	0.2	<0.2	<0.2	200	0
			o,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0
			o,p'-DDT	mg/kg	0.1	<0.1	<0.1	200	0
			Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
			p,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDT	mg/kg	0.1	<0.1	<0.1	200	0
			Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	200	0
			Methoxychlor	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin Ketone	mg/kg	0.1	<0.1	<0.1	200	0
			Isodrin	mg/kg	0.1	<0.1	<0.1	200	0
			Mirex	mg/kg	0.1	<0.1	<0.1	200	0
			Total CLP OC Pesticides	mg/kg	1	<1	<1	200	0
			Total OC VIC EPA	mg/kg	1	<1	<1	200	0
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.15	0.15	30	3
SE237144.051	LB259642.034		Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	200	0
			Alpha BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Lindane	mg/kg	0.1	<0.1	<0.1	200	0
			Heptachlor	mg/kg	0.1	<0.1	<0.1	200	0
			Aldrin	mg/kg	0.1	<0.1	<0.1	200	0
			Beta BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Delta BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	200	0
			o,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0
			Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
			Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
			Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
			trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0
			Dieldrin	mg/kg	0.2	<0.2	<0.2	200	0
			Endrin	mg/kg	0.2	<0.2	<0.2	200	0
			o,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0
			o,p'-DDT	mg/kg	0.1	<0.1	<0.1	200	0
			Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
			p,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDT	mg/kg	0.1	<0.1	<0.1	200	0
			Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	200	0
			Methoxychlor	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin Ketone	mg/kg	0.1	<0.1	<0.1	200	0
			Isodrin	mg/kg	0.1	<0.1	<0.1	200	0
			Mirex	mg/kg	0.1	<0.1	<0.1	200	0
			Total CLP OC Pesticides	mg/kg	1	<1	<1	200	0
			Total OC VIC EPA	mg/kg	1	<1	<1	200	0
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.14	0.16	30	11
SE237144.058	LB259642.035		Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	200	0
			Alpha BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Lindane	mg/kg	0.1	<0.1	<0.1	200	0
			Heptachlor	mg/kg	0.1	<0.1	<0.1	200	0
			Aldrin	mg/kg	0.1	<0.1	<0.1	200	0
			Beta BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Delta BHC	mg/kg	0.1	<0.1	<0.1	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

OC Pesticides in Soil (continued) — Method: ME-(AU)-[ENV]AN420

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE237144.058	LB259642.035		Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	200	0
			o,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0
			Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
			Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
			Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
			trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0
			Dieldrin	mg/kg	0.2	<0.2	<0.2	200	0
			Endrin	mg/kg	0.2	<0.2	<0.2	200	0
			o,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0
			o,p'-DDT	mg/kg	0.1	<0.1	<0.1	200	0
			Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
			p,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDT	mg/kg	0.1	<0.1	<0.1	200	0
			Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	200	0
			Methoxychlor	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin Ketone	mg/kg	0.1	<0.1	<0.1	200	0
			Isodrin	mg/kg	0.1	<0.1	<0.1	200	0
			Mirex	mg/kg	0.1	<0.1	<0.1	200	0
			Total CLP OC Pesticides	mg/kg	1	<1	<1	200	0
			Total OC VIC EPA	mg/kg	1	<1	<1	200	0
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.15	0.15	30	4

OP Pesticides in Soil — Method: ME-(AU)-[ENV]AN420

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE237144.011	LB259640.014		Dichlorvos	mg/kg	0.5	<0.5	<0.5	200	0
			Dimethoate	mg/kg	0.5	<0.5	<0.5	200	0
			Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	200	0
			Fenitrothion	mg/kg	0.2	<0.2	<0.2	200	0
			Malathion	mg/kg	0.2	<0.2	<0.2	200	0
			Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	200	0
			Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	200	0
			Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	200	0
			Methidathion	mg/kg	0.5	<0.5	<0.5	200	0
			Ethion	mg/kg	0.2	<0.2	<0.2	200	0
			Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	200	0
			Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	200	0
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	3
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	0
SE237144.020	LB259640.024		Dichlorvos	mg/kg	0.5	<0.5	<0.5	200	0
			Dimethoate	mg/kg	0.5	<0.5	<0.5	200	0
			Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	200	0
			Fenitrothion	mg/kg	0.2	<0.2	<0.2	200	0
			Malathion	mg/kg	0.2	<0.2	<0.2	200	0
			Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	200	0
			Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	200	0
			Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	200	0
			Methidathion	mg/kg	0.5	<0.5	<0.5	200	0
			Ethion	mg/kg	0.2	<0.2	<0.2	200	0
			Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	200	0
			Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	200	0
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	1
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	2
SE237144.030	LB259641.014		Dichlorvos	mg/kg	0.5	<0.5	<0.5	200	0
			Dimethoate	mg/kg	0.5	<0.5	<0.5	200	0
			Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	200	0
			Fenitrothion	mg/kg	0.2	<0.2	<0.2	200	0
			Malathion	mg/kg	0.2	<0.2	<0.2	200	0
			Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	200	0
			Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

OP Pesticides in Soil (continued) — Method: ME-(AU)-[ENV]AN420

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE237144.030	LB259641.014		Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	200	0
			Methidathion	mg/kg	0.5	<0.5	<0.5	200	0
			Ethion	mg/kg	0.2	<0.2	<0.2	200	0
			Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	200	0
			Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	200	0
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.5	30	3
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	1
SE237144.040	LB259641.025		Dichlorvos	mg/kg	0.5	<0.5	<0.5	200	0
			Dimethoate	mg/kg	0.5	<0.5	<0.5	200	0
			Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	200	0
			Fenitrothion	mg/kg	0.2	<0.2	<0.2	200	0
			Malathion	mg/kg	0.2	<0.2	<0.2	200	0
			Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	200	0
			Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	200	0
			Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	200	0
			Methidathion	mg/kg	0.5	<0.5	<0.5	200	0
			Ethion	mg/kg	0.2	<0.2	<0.2	200	0
			Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	200	0
			Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	200	0
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.4	30	2
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	3
SE237144.051	LB259642.034		Dichlorvos	mg/kg	0.5	<0.5	<0.5	200	0
			Dimethoate	mg/kg	0.5	<0.5	<0.5	200	0
			Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	200	0
			Fenitrothion	mg/kg	0.2	<0.2	<0.2	200	0
			Malathion	mg/kg	0.2	<0.2	<0.2	200	0
			Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	200	0
			Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	200	0
			Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	200	0
			Methidathion	mg/kg	0.5	<0.5	<0.5	200	0
			Ethion	mg/kg	0.2	<0.2	<0.2	200	0
			Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	200	0
			Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	200	0
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	3
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	3

PAH (Polynuclear Aromatic Hydrocarbons) in Soil — Method: ME-(AU)-[ENV]AN420

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE237144.011	LB259640.014		Naphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			Acenaphthylene	mg/kg	0.1	<0.1	<0.1	200	0
			Acenaphthene	mg/kg	0.1	<0.1	<0.1	200	0
			Fluorene	mg/kg	0.1	<0.1	<0.1	200	0
			Phenanthrene	mg/kg	0.1	<0.1	<0.1	200	0
			Anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Chrysene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	200	0
			Carcinogenic PAHs, BaP TEQ <LOR=0	mg/kg	0.2	<0.2	<0.2	200	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR	mg/kg	0.3	<0.3	<0.3	134	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	mg/kg	0.2	<0.2	<0.2	175	0
			Total PAH (18)	mg/kg	0.8	<0.8	<0.8	200	0
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	30	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued) — **Method: ME-(AU)-[ENV]AN420**

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE237144.011	LB259640.014	Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	3
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	0
SE237144.020	LB259640.024		Naphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			Acenaphthylene	mg/kg	0.1	<0.1	<0.1	200	0
			Acenaphthene	mg/kg	0.1	<0.1	<0.1	200	0
			Fluorene	mg/kg	0.1	<0.1	<0.1	200	0
			Phenanthrene	mg/kg	0.1	<0.1	<0.1	200	0
			Anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Chrysene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	200	0
			Carcinogenic PAHs, BaP TEQ <LOR=0	mg/kg	0.2	<0.2	<0.2	200	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR	mg/kg	0.3	<0.3	<0.3	134	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	mg/kg	0.2	<0.2	<0.2	175	0
			Total PAH (18)	mg/kg	0.8	<0.8	<0.8	200	0
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	30	1
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	1
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	2
SE237144.030	LB259641.014		Naphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			Acenaphthylene	mg/kg	0.1	<0.1	<0.1	200	0
			Acenaphthene	mg/kg	0.1	<0.1	<0.1	200	0
			Fluorene	mg/kg	0.1	<0.1	<0.1	200	0
			Phenanthrene	mg/kg	0.1	<0.1	<0.1	200	0
			Anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Chrysene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	200	0
			Carcinogenic PAHs, BaP TEQ <LOR=0	mg/kg	0.2	<0.2	<0.2	200	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR	mg/kg	0.3	<0.3	<0.3	134	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	mg/kg	0.2	<0.2	<0.2	175	0
			Total PAH (18)	mg/kg	0.8	<0.8	<0.8	200	0
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	30	1
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.5	30	3
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	1
SE237144.040	LB259641.025		Naphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			Acenaphthylene	mg/kg	0.1	<0.1	<0.1	200	0
			Acenaphthene	mg/kg	0.1	<0.1	<0.1	200	0
			Fluorene	mg/kg	0.1	<0.1	<0.1	200	0
			Phenanthrene	mg/kg	0.1	<0.1	<0.1	200	0
			Anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued) — **Method: ME-(AU)-[ENV]AN420**

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE237144.040	LB259641.025		Pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Chrysene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	200	0
			Carcinogenic PAHs, BaP TEQ <LOR=0	mg/kg	0.2	<0.2	<0.2	200	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR	mg/kg	0.3	<0.3	<0.3	134	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	mg/kg	0.2	<0.2	<0.2	175	0
			Total PAH (18)	mg/kg	0.8	<0.8	<0.8	200	0
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	30	3
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.4	30	2
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	3
SE237144.051	LB259642.034		Naphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			Acenaphthylene	mg/kg	0.1	<0.1	<0.1	200	0
			Acenaphthene	mg/kg	0.1	<0.1	<0.1	200	0
			Fluorene	mg/kg	0.1	<0.1	<0.1	200	0
			Phenanthrene	mg/kg	0.1	<0.1	<0.1	200	0
			Anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Chrysene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	200	0
			Carcinogenic PAHs, BaP TEQ <LOR=0	mg/kg	0.2	<0.2	<0.2	200	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR	mg/kg	0.3	<0.3	<0.3	134	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	mg/kg	0.2	<0.2	<0.2	175	0
			Total PAH (18)	mg/kg	0.8	<0.8	<0.8	200	0
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.6	0.6	30	2
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	3
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	3
SE237144.062	LB259642.032		Naphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			Acenaphthylene	mg/kg	0.1	<0.1	<0.1	200	0
			Acenaphthene	mg/kg	0.1	<0.1	<0.1	200	0
			Fluorene	mg/kg	0.1	<0.1	<0.1	200	0
			Phenanthrene	mg/kg	0.1	<0.1	<0.1	200	0
			Anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Chrysene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	200	0
			Carcinogenic PAHs, BaP TEQ <LOR=0	mg/kg	0.2	<0.2	<0.2	200	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR	mg/kg	0.3	<0.3	<0.3	134	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

Method: ME-(AU)-[ENV]AN420

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE237144.062	LB259642.032		Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	mg/kg	0.2	<0.2	<0.2	175	0
			Total PAH (18)	mg/kg	0.8	<0.8	<0.8	200	0
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.6	0.6	30	2
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	2
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	2

PCBs in Soil

Method: ME-(AU)-[ENV]AN420

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE237144.011	LB259640.014		Arochlor 1016	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1221	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1232	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1242	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1248	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1254	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1260	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1262	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1268	mg/kg	0.2	<0.2	<0.2	200	0
			Total PCBs (Arochlors)	mg/kg	1	<1	<1	200	0
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0	0	30	5
SE237144.020	LB259640.024		Arochlor 1016	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1221	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1232	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1242	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1248	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1254	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1260	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1262	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1268	mg/kg	0.2	<0.2	<0.2	200	0
			Total PCBs (Arochlors)	mg/kg	1	<1	<1	200	0
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0	0	30	5
SE237144.030	LB259641.014		Arochlor 1016	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1221	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1232	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1242	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1248	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1254	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1260	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1262	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1268	mg/kg	0.2	<0.2	<0.2	200	0
			Total PCBs (Arochlors)	mg/kg	1	<1	<1	200	0
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0	0	30	10
SE237144.040	LB259641.025		Arochlor 1016	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1221	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1232	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1242	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1248	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1254	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1260	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1262	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1268	mg/kg	0.2	<0.2	<0.2	200	0
			Total PCBs (Arochlors)	mg/kg	1	<1	<1	200	0
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0	0	30	3
SE237144.051	LB259642.034		Arochlor 1016	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1221	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1232	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1242	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1248	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1254	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1260	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1262	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1268	mg/kg	0.2	<0.2	<0.2	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

PCBs in Soil (continued) — Method: ME-(AU)-[ENV]AN420

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE237144.051	LB259642.034		Total PCBs (Arochlors)	mg/kg	1	<1	<1	200	0
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0	0	30	11
SE237144.058	LB259642.035		Arochlor 1016	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1221	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1232	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1242	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1248	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1254	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1260	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1262	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1268	mg/kg	0.2	<0.2	<0.2	200	0
			Total PCBs (Arochlors)	mg/kg	1	<1	<1	200	0
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0	0	30	4

Speciated Phenols in Soil — Method: ME-(AU)-[ENV]AN420

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE237144.011	LB259640.014		Phenol	mg/kg	0.5	<0.5	<0.5	200	0
			2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	200	0
			3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	200	0
			Total Cresol	mg/kg	1.5	<1.5	<1.5	200	0
			2-chlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,4-dichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2-nitrophenol	mg/kg	0.5	<0.5	<0.5	200	0
			4-nitrophenol	mg/kg	1	<1	<1	200	0
			2,4,5-trichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	200	0
			Pentachlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,4-dinitrophenol	mg/kg	2	<2	<2	200	0
			4-chloro-3-methylphenol	mg/kg	2	<2	<2	200	0
		Surrogates	2,4,6-Tribromophenol (Surrogate)	mg/kg	-	4.8	4.8	30	2
			d5-phenol (Surrogate)	mg/kg	-	1.9	1.8	30	3
SE237144.020	LB259640.024		Phenol	mg/kg	0.5	<0.5	<0.5	200	0
			2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	200	0
			3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	200	0
			Total Cresol	mg/kg	1.5	<1.5	<1.5	200	0
			2-chlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,4-dichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2-nitrophenol	mg/kg	0.5	<0.5	<0.5	200	0
			4-nitrophenol	mg/kg	1	<1	<1	200	0
			2,4,5-trichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	200	0
			Pentachlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,4-dinitrophenol	mg/kg	2	<2	<2	200	0
			4-chloro-3-methylphenol	mg/kg	2	<2	<2	200	0
		Surrogates	2,4,6-Tribromophenol (Surrogate)	mg/kg	-	4.7	5.1	30	8
			d5-phenol (Surrogate)	mg/kg	-	1.6	1.9	30	14
SE237144.030	LB259641.014		Phenol	mg/kg	0.5	<0.5	<0.5	200	0
			2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	200	0
			3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	200	0
			Total Cresol	mg/kg	1.5	<1.5	<1.5	200	0
			2-chlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,4-dichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

Speciated Phenols in Soil (continued) — **Method: ME-(AU)-[ENV]AN420**

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE237144.030	LB259641.014		2-nitrophenol	mg/kg	0.5	<0.5	<0.5	200	0
			4-nitrophenol	mg/kg	1	<1	<1	200	0
			2,4,5-trichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	200	0
			Pentachlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,4-dinitrophenol	mg/kg	2	<2	<2	200	0
			4-chloro-3-methylphenol	mg/kg	2	<2	<2	200	0
		Surrogates	2,4,6-Tribromophenol (Surrogate)	mg/kg	-	5.0	5.0	30	0
			d5-phenol (Surrogate)	mg/kg	-	1.8	1.8	30	0
SE237144.040	LB259641.025		Phenol	mg/kg	0.5	<0.5	<0.5	200	0
			2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	200	0
			3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	200	0
			Total Cresol	mg/kg	1.5	<1.5	<1.5	200	0
			2-chlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,4-dichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2-nitrophenol	mg/kg	0.5	<0.5	<0.5	200	0
			4-nitrophenol	mg/kg	1	<1	<1	200	0
			2,4,5-trichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	200	0
			Pentachlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,4-dinitrophenol	mg/kg	2	<2	<2	200	0
			4-chloro-3-methylphenol	mg/kg	2	<2	<2	200	0
		Surrogates	2,4,6-Tribromophenol (Surrogate)	mg/kg	-	5.1	5.0	30	1
			d5-phenol (Surrogate)	mg/kg	-	1.8	1.8	30	1
SE237144.051	LB259642.034		Phenol	mg/kg	0.5	<0.5	<0.5	200	0
			2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	200	0
			3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	200	0
			Total Cresol	mg/kg	1.5	<1.5	<1.5	200	0
			2-chlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,4-dichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2-nitrophenol	mg/kg	0.5	<0.5	<0.5	200	0
			4-nitrophenol	mg/kg	1	<1	<1	200	0
			2,4,5-trichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	200	0
			Pentachlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,4-dinitrophenol	mg/kg	2	<2	<2	200	0
			4-chloro-3-methylphenol	mg/kg	2	<2	<2	200	0
		Surrogates	2,4,6-Tribromophenol (Surrogate)	mg/kg	-	3.7	3.9	30	5
			d5-phenol (Surrogate)	mg/kg	-	1.8	1.8	30	2
SE237144.058	LB259642.035		Phenol	mg/kg	0.5	<0.5	<0.5	200	0
			2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	200	0
			3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	200	0
			Total Cresol	mg/kg	1.5	<1.5	<1.5	200	0
			2-chlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,4-dichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2-nitrophenol	mg/kg	0.5	<0.5	<0.5	200	0
			4-nitrophenol	mg/kg	1	<1	<1	200	0
			2,4,5-trichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	200	0
			Pentachlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,4-dinitrophenol	mg/kg	2	<2	<2	200	0
			4-chloro-3-methylphenol	mg/kg	2	<2	<2	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

Speciated Phenols in Soil (continued) — Method: ME-(AU)-[ENV]AN420

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE237144.058	LB259642.035	Surrogates	2,4,6-Tribromophenol (Surrogate)	mg/kg	-	3.6	3.8	30	6
			d5-phenol (Surrogate)	mg/kg	-	1.8	1.8	30	1

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES — Method: ME-(AU)-[ENV]AN040/AN320

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE237142.006	LB259760.024	Arsenic, As	mg/kg	1	7	8	43	15
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	16	13	33	23
		Copper, Cu	mg/kg	0.5	13	15	34	15
		Nickel, Ni	mg/kg	0.5	3.6	4.1	43	13
		Lead, Pb	mg/kg	1	8	9	42	12
		Zinc, Zn	mg/kg	2	26	28	37	9
SE237144.011	LB259756.014	Arsenic, As	mg/kg	1	2	2	88	16
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	46	45	31	3
		Copper, Cu	mg/kg	0.5	43	41	31	5
		Nickel, Ni	mg/kg	0.5	150	130	30	10
		Lead, Pb	mg/kg	1	4	4	57	3
		Zinc, Zn	mg/kg	2	38	36	35	6
SE237144.020	LB259756.024	Arsenic, As	mg/kg	1	2	2	80	27
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	47	47	31	1
		Copper, Cu	mg/kg	0.5	24	23	32	2
		Nickel, Ni	mg/kg	0.5	46	47	31	3
		Lead, Pb	mg/kg	1	6	6	47	1
		Zinc, Zn	mg/kg	2	31	31	36	1
SE237144.030	LB259757.014	Arsenic, As	mg/kg	1	3	3	63	25
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	76	70	31	8
		Copper, Cu	mg/kg	0.5	42	38	31	10
		Nickel, Ni	mg/kg	0.5	93	86	31	9
		Lead, Pb	mg/kg	1	7	7	44	11
		Zinc, Zn	mg/kg	2	45	41	35	9
SE237144.039	LB259757.024	Arsenic, As	mg/kg	1	2	3	67	27
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	71	70	31	2
		Copper, Cu	mg/kg	0.5	36	37	31	1
		Nickel, Ni	mg/kg	0.5	48	54	31	11
		Lead, Pb	mg/kg	1	7	6	45	6
		Zinc, Zn	mg/kg	2	33	34	36	1
SE237144.049	LB259758.014	Arsenic, As	mg/kg	1	1	2	82	45
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	31	59	31	62 ②
		Copper, Cu	mg/kg	0.5	23	34	32	40 ②
		Nickel, Ni	mg/kg	0.5	92	98	31	6
		Lead, Pb	mg/kg	1	3	7	51	78 ②
		Zinc, Zn	mg/kg	2	29	50	35	54 ②
SE237144.058	LB259758.024	Arsenic, As	mg/kg	1	2	2	87	20
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	60	59	31	2
		Copper, Cu	mg/kg	0.5	38	35	31	7
		Nickel, Ni	mg/kg	0.5	140	140	30	3
		Lead, Pb	mg/kg	1	4	3	59	18
		Zinc, Zn	mg/kg	2	49	48	34	1
SE237284.025	LB259760.014	Arsenic, As	mg/kg	1	5	4	53	12
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	33	30	32	9
		Copper, Cu	mg/kg	0.5	13	12	34	7
		Nickel, Ni	mg/kg	0.5	9.2	9.2	35	1
		Lead, Pb	mg/kg	1	13	10	39	27
		Zinc, Zn	mg/kg	2	11	11	48	6

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE237160.004	LB259733.014	Arsenic	µg/L	1	<1	<1	200	0
		Cadmium	µg/L	0.1	<0.1	<0.1	200	0
		Chromium	µg/L	1	<1	<1	200	0
		Copper	µg/L	1	<1	<1	200	0
		Lead	µg/L	1	<1	<1	200	0
		Nickel	µg/L	1	<1	<1	200	0
		Zinc	µg/L	5	5	5	110	2
SE237278.005	LB259733.028	Cadmium	µg/L	0.1	<0.1	<0.1	200	0
		Chromium	µg/L	1	<1	<1	158	0
		Copper	µg/L	1	1	1	107	3
		Lead	µg/L	1	<1	<1	200	0
		Nickel	µg/L	1	1	1	95	1
		Zinc	µg/L	5	<5	<5	155	0

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE237144.011	LB259640.014		TRH C10-C14	mg/kg	20	<20	<20	200	0
			TRH C15-C28	mg/kg	45	<45	<45	200	0
			TRH C29-C36	mg/kg	45	<45	<45	200	0
			TRH C37-C40	mg/kg	100	<100	<100	200	0
			TRH C10-C36 Total	mg/kg	110	<110	<110	200	0
			TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	200	0
		TRH F Bands	TRH >C10-C16	mg/kg	25	<25	<25	200	0
			TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	200	0
			TRH >C16-C34 (F3)	mg/kg	90	<90	<90	200	0
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	200	0
SE237144.020	LB259640.024		TRH C10-C14	mg/kg	20	<20	<20	200	0
			TRH C15-C28	mg/kg	45	<45	<45	200	0
			TRH C29-C36	mg/kg	45	<45	<45	200	0
			TRH C37-C40	mg/kg	100	<100	<100	200	0
			TRH C10-C36 Total	mg/kg	110	<110	<110	200	0
			TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	200	0
		TRH F Bands	TRH >C10-C16	mg/kg	25	<25	<25	200	0
			TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	200	0
			TRH >C16-C34 (F3)	mg/kg	90	<90	<90	200	0
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	200	0
SE237144.030	LB259641.014		TRH C10-C14	mg/kg	20	<20	<20	200	0
			TRH C15-C28	mg/kg	45	<45	<45	200	0
			TRH C29-C36	mg/kg	45	<45	<45	200	0
			TRH C37-C40	mg/kg	100	<100	<100	200	0
			TRH C10-C36 Total	mg/kg	110	<110	<110	200	0
			TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	200	0
		TRH F Bands	TRH >C10-C16	mg/kg	25	<25	<25	200	0
			TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	200	0
			TRH >C16-C34 (F3)	mg/kg	90	<90	<90	200	0
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	200	0
SE237144.040	LB259641.025		TRH C10-C14	mg/kg	20	<20	<20	200	0
			TRH C15-C28	mg/kg	45	<45	<45	200	0
			TRH C29-C36	mg/kg	45	<45	<45	200	0
			TRH C37-C40	mg/kg	100	<100	<100	200	0
			TRH C10-C36 Total	mg/kg	110	<110	<110	200	0
			TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	200	0
		TRH F Bands	TRH >C10-C16	mg/kg	25	<25	<25	200	0
			TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	200	0
			TRH >C16-C34 (F3)	mg/kg	90	<90	<90	200	0
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	200	0
SE237144.050	LB259642.014		TRH C10-C14	mg/kg	20	<20	<20	200	0
			TRH C15-C28	mg/kg	45	<45	<45	200	0
			TRH C29-C36	mg/kg	45	<45	<45	200	0
			TRH C37-C40	mg/kg	100	<100	<100	200	0
			TRH C10-C36 Total	mg/kg	110	<110	<110	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

TRH (Total Recoverable Hydrocarbons) in Soil (continued)

Method: ME-(AU)-[ENV]AN403

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE237144.050	LB259642.014		TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	200	0
		TRH F Bands	TRH >C10-C16	mg/kg	25	<25	<25	200	0
			TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	200	0
			TRH >C16-C34 (F3)	mg/kg	90	<90	<90	200	0
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	200	0
	LB259642.034		TRH C10-C14	mg/kg	20	<20	<20	200	0
			TRH C15-C28	mg/kg	45	<45	<45	200	0
			TRH C29-C36	mg/kg	45	<45	<45	200	0
			TRH C37-C40	mg/kg	100	<100	<100	200	0
			TRH C10-C36 Total	mg/kg	110	<110	<110	200	0
			TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	200	0
		TRH F Bands	TRH >C10-C16	mg/kg	25	<25	<25	200	0
			TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	200	0
			TRH >C16-C34 (F3)	mg/kg	90	<90	<90	200	0
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	200	0
SE237144.062	LB259642.032		TRH C10-C14	mg/kg	20	<20	<20	200	0
			TRH C15-C28	mg/kg	45	<45	<45	200	0
			TRH C29-C36	mg/kg	45	<45	<45	200	0
			TRH C37-C40	mg/kg	100	<100	<100	200	0
			TRH C10-C36 Total	mg/kg	110	<110	<110	200	0
			TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	200	0
		TRH F Bands	TRH >C10-C16	mg/kg	25	<25	<25	200	0
			TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	200	0
			TRH >C16-C34 (F3)	mg/kg	90	<90	<90	200	0
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	200	0

TRH (Total Recoverable Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN403

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE237133.018	LB259608.029		TRH C10-C14	µg/L	50	<50	<50	200	0
			TRH C15-C28	µg/L	200	<200	<200	200	0
			TRH C29-C36	µg/L	200	<200	<200	200	0
			TRH C37-C40	µg/L	200	<200	<200	200	0
			TRH C10-C40	µg/L	320	<320	<320	200	0
		TRH F Bands	TRH >C10-C16	µg/L	60	<60	<60	200	0
			TRH >C16-C34 (F3)	µg/L	500	<500	<500	200	0
			TRH >C34-C40 (F4)	µg/L	500	<500	<500	200	0
SE237248.003	LB259608.028		TRH C10-C14	µg/L	50	<50	<50	200	0
			TRH C15-C28	µg/L	200	<200	<200	200	0
			TRH C29-C36	µg/L	200	<200	<200	200	0
			TRH C37-C40	µg/L	200	<200	<200	200	0
			TRH C10-C40	µg/L	320	<320	<320	200	0
		TRH F Bands	TRH >C10-C16	µg/L	60	<60	<60	200	0
			TRH >C10-C16 - Naphthalene (F2)	µg/L	60	<60	<60	200	0
			TRH >C16-C34 (F3)	µg/L	500	<500	<500	200	0
			TRH >C34-C40 (F4)	µg/L	500	<500	<500	200	0

VOC's in Soil

Method: ME-(AU)-[ENV]AN433

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE237144.011	LB259664.014	Monocyclic Aromatic Hydrocarbons	Benzene	mg/kg	0.1	<0.1	<0.1	200	0
			Toluene	mg/kg	0.1	<0.1	<0.1	200	0
			Ethylbenzene	mg/kg	0.1	<0.1	<0.1	200	0
			m/p-xylene	mg/kg	0.2	<0.2	<0.2	200	0
			o-xylene	mg/kg	0.1	<0.1	<0.1	200	0
		Polycyclic	Naphthalene (VOC)	mg/kg	0.1	<0.1	<0.1	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	7.9	8.2	50	3
			d8-toluene (Surrogate)	mg/kg	-	7.2	7.7	50	6
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.2	8.5	50	4
		Totals	Total Xylenes	mg/kg	0.3	<0.3	<0.3	200	0
			Total BTEX	mg/kg	0.6	<0.6	<0.6	200	0
SE237144.020	LB259664.024	Monocyclic Aromatic Hydrocarbons	Benzene	mg/kg	0.1	<0.1	<0.1	200	0
			Toluene	mg/kg	0.1	<0.1	<0.1	200	0
			Ethylbenzene	mg/kg	0.1	<0.1	<0.1	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

VOC's in Soil (continued) — Method: ME-(AU)-[ENV]AN433

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE237144.020	LB259664.024	Monocyclic	m/p-xylene	mg/kg	0.2	<0.2	<0.2	200	0
		Aromatic	o-xylene	mg/kg	0.1	<0.1	<0.1	200	0
		Polycyclic	Naphthalene (VOC)	mg/kg	0.1	<0.1	<0.1	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	7.3	8.3	50	13
			d8-toluene (Surrogate)	mg/kg	-	6.6	7.7	50	15
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.3	8.5	50	2
		Totals	Total Xylenes	mg/kg	0.3	<0.3	<0.3	200	0
			Total BTEX	mg/kg	0.6	<0.6	<0.6	200	0
SE237144.030	LB259665.014	Monocyclic	Benzene	mg/kg	0.1	<0.1	<0.1	200	0
		Aromatic	Toluene	mg/kg	0.1	<0.1	<0.1	200	0
		Hydrocarbons	Ethylbenzene	mg/kg	0.1	<0.1	<0.1	200	0
			m/p-xylene	mg/kg	0.2	<0.2	<0.2	200	0
			o-xylene	mg/kg	0.1	<0.1	<0.1	200	0
		Polycyclic	Naphthalene (VOC)	mg/kg	0.1	<0.1	<0.1	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.1	8.0	50	1
			d8-toluene (Surrogate)	mg/kg	-	7.8	7.6	50	3
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.3	8.2	50	2
		Totals	Total Xylenes	mg/kg	0.3	<0.3	<0.3	200	0
			Total BTEX	mg/kg	0.6	<0.6	<0.6	200	0
SE237144.040	LB259665.025	Monocyclic	Benzene	mg/kg	0.1	<0.1	<0.1	200	0
		Aromatic	Toluene	mg/kg	0.1	<0.1	<0.1	200	0
		Hydrocarbons	Ethylbenzene	mg/kg	0.1	<0.1	<0.1	200	0
			m/p-xylene	mg/kg	0.2	<0.2	<0.2	200	0
			o-xylene	mg/kg	0.1	<0.1	<0.1	200	0
		Polycyclic	Naphthalene (VOC)	mg/kg	0.1	<0.1	<0.1	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	7.7	8.2	50	6
			d8-toluene (Surrogate)	mg/kg	-	8.1	8.2	50	2
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.6	7.8	50	2
		Totals	Total Xylenes	mg/kg	0.3	<0.3	<0.3	200	0
			Total BTEX	mg/kg	0.6	<0.6	<0.6	200	0
SE237144.051	LB259666.035	Monocyclic	Benzene	mg/kg	0.1	<0.1	<0.1	200	0
		Aromatic	Toluene	mg/kg	0.1	<0.1	<0.1	200	0
		Hydrocarbons	Ethylbenzene	mg/kg	0.1	<0.1	<0.1	200	0
			m/p-xylene	mg/kg	0.2	<0.2	<0.2	200	0
			o-xylene	mg/kg	0.1	<0.1	<0.1	200	0
		Polycyclic	Naphthalene (VOC)	mg/kg	0.1	<0.1	<0.1	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.9	8.6	50	3
			d8-toluene (Surrogate)	mg/kg	-	8.8	8.5	50	4
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.8	8.4	50	4
		Totals	Total Xylenes	mg/kg	0.3	<0.3	<0.3	200	0
			Total BTEX	mg/kg	0.6	<0.6	<0.6	200	0
SE237144.062	LB259666.037	Monocyclic	Benzene	mg/kg	0.1	<0.1	<0.1	200	0
		Aromatic	Toluene	mg/kg	0.1	<0.1	<0.1	200	0
		Hydrocarbons	Ethylbenzene	mg/kg	0.1	<0.1	<0.1	200	0
			m/p-xylene	mg/kg	0.2	<0.2	<0.2	200	0
			o-xylene	mg/kg	0.1	<0.1	<0.1	200	0
		Polycyclic	Naphthalene (VOC)	mg/kg	0.1	<0.1	<0.1	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	10.8	10.0	50	8
			d8-toluene (Surrogate)	mg/kg	-	10.2	9.5	50	7
			Bromofluorobenzene (Surrogate)	mg/kg	-	9.4	8.8	50	6
		Totals	Total Xylenes	mg/kg	0.3	<0.3	<0.3	200	0
			Total BTEX	mg/kg	0.6	<0.6	<0.6	200	0

VOCs in Water — Method: ME-(AU)-[ENV]AN433

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE237110.004	LB259754.026	Monocyclic	Benzene	µg/L	0.5	<0.5	<0.5	200	0
		Aromatic	Toluene	µg/L	0.5	<0.5	<0.5	200	0
		Hydrocarbons	Ethylbenzene	µg/L	0.5	<0.5	<0.5	200	0
			m/p-xylene	µg/L	1	<1	<1	200	0
			o-xylene	µg/L	0.5	<0.5	<0.5	200	0
		Polycyclic	Naphthalene (VOC)	µg/L	0.5	<0.5	<0.5	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

VOCs in Water (continued)

Method: ME-(AU)-[ENV]AN433

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE237110.004	LB259754.026	Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	0.0	0.0	30	25
			d8-toluene (Surrogate)	µg/L	-	0.0	0.0	30	6
			Bromofluorobenzene (Surrogate)	µg/L	-	0.0	0.0	30	1
SE237144.001	LB259754.027	Monocyclic	Benzene	µg/L	0.5	<0.5	<0.5	200	0
		Aromatic	Toluene	µg/L	0.5	<0.5	<0.5	200	0
		Hydrocarbons	Ethylbenzene	µg/L	0.5	<0.5	<0.5	200	0
			m/p-xylene	µg/L	1	<1	<1	200	0
			o-xylene	µg/L	0.5	<0.5	<0.5	200	0
		Polycyclic	Naphthalene (VOC)	µg/L	0.5	<0.5	<0.5	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	0.0	0.0	30	17
			d8-toluene (Surrogate)	µg/L	-	0.0	0.0	30	2
			Bromofluorobenzene (Surrogate)	µg/L	-	0.0	0.0	30	2

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-[ENV]AN433

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE237144.011	LB259664.014		TRH C6-C10	mg/kg	25	<25	<25	200	0
			TRH C6-C9	mg/kg	20	<20	<20	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	7.9	8.2	30	3
			d8-toluene (Surrogate)	mg/kg	-	7.2	7.7	30	6
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.2	8.5	30	4
		VPH F Bands	Benzene (F0)	mg/kg	0.1	<0.1	<0.1	200	0
			TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	200	0
SE237144.020	LB259664.024		TRH C6-C10	mg/kg	25	<25	<25	200	0
			TRH C6-C9	mg/kg	20	<20	<20	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	7.3	8.3	30	13
			d8-toluene (Surrogate)	mg/kg	-	6.6	7.7	30	15
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.3	8.5	30	2
		VPH F Bands	Benzene (F0)	mg/kg	0.1	<0.1	<0.1	200	0
			TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	200	0
SE237144.030	LB259665.014		TRH C6-C10	mg/kg	25	<25	<25	200	0
			TRH C6-C9	mg/kg	20	<20	<20	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.1	8.0	30	1
			d8-toluene (Surrogate)	mg/kg	-	7.8	7.6	30	3
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.3	8.2	30	2
		VPH F Bands	Benzene (F0)	mg/kg	0.1	<0.1	<0.1	200	0
			TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	200	0
SE237144.040	LB259665.025		TRH C6-C10	mg/kg	25	<25	<25	200	0
			TRH C6-C9	mg/kg	20	<20	<20	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	7.7	8.2	30	6
			d8-toluene (Surrogate)	mg/kg	-	8.1	8.2	30	2
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.6	7.8	30	2
		VPH F Bands	Benzene (F0)	mg/kg	0.1	<0.1	<0.1	200	0
			TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	200	0
SE237144.051	LB259666.035		TRH C6-C10	mg/kg	25	<25	<25	200	0
			TRH C6-C9	mg/kg	20	<20	<20	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.9	8.6	30	3
			d8-toluene (Surrogate)	mg/kg	-	8.8	8.5	30	4
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.8	8.4	30	4
		VPH F Bands	Benzene (F0)	mg/kg	0.1	<0.1	<0.1	200	0
			TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	200	0
SE237144.062	LB259666.037		TRH C6-C10	mg/kg	25	<25	<25	200	0
			TRH C6-C9	mg/kg	20	<20	<20	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	10.8	10.0	30	8
			d8-toluene (Surrogate)	mg/kg	-	10.2	9.5	30	7
			Bromofluorobenzene (Surrogate)	mg/kg	-	9.4	8.8	30	6
		VPH F Bands	Benzene (F0)	mg/kg	0.1	<0.1	<0.1	200	0
			TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	200	0

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

Original	Duplicate	Parameter	Units	LOR

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

Volatile Petroleum Hydrocarbons in Water (continued) **Method: ME-(AU)-[ENV]AN433**

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE237110.004	LB259754.026		TRH C6-C10	µg/L	50	<50	<50	200	0
			TRH C6-C9	µg/L	40	<40	<40	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	0.0	0.0	30	25
			d8-toluene (Surrogate)	µg/L	-	0.0	0.0	30	6
			Bromofluorobenzene (Surrogate)	µg/L	-	0.0	0.0	30	1
		VPH F Bands	Benzene (F0)	µg/L	0.5	<0.5	<0.5	200	0
			TRH C6-C10 minus BTEX (F1)	µg/L	50	<50	<50	200	0
SE237144.001	LB259754.027		TRH C6-C10	µg/L	50	<50	<50	200	0
			TRH C6-C9	µg/L	40	<40	<40	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	0.0	0.0	30	17
			d8-toluene (Surrogate)	µg/L	-	0.0	0.0	30	2
			Bromofluorobenzene (Surrogate)	µg/L	-	0.0	0.0	30	2
		VPH F Bands	Benzene (F0)	µg/L	0.5	<0.5	<0.5	200	0
			TRH C6-C10 minus BTEX (F1)	µg/L	50	<50	<50	200	0

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Exchangeable Cations and Cation Exchange Capacity (CEC/ESP/SAR)

Method: ME-(AU)-[ENV]AN122

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB260019.002	Exchangeable Sodium, Na	meq/100g	0.01	0.20	0.194	80 - 120	102
	Exchangeable Potassium, K	meq/100g	0.01	0.59	0.63	80 - 120	94
	Exchangeable Calcium, Ca	meq/100g	0.01	5.9	6.3	80 - 120	93
	Exchangeable Magnesium, Mg	meq/100g	0.02	1.0	1.11	80 - 120	92

Mercury in Soil

Method: ME-(AU)-[ENV]AN312

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB259761.002	Mercury	mg/kg	0.05	0.23	0.2	70 - 130	113
LB259762.002	Mercury	mg/kg	0.05	0.21	0.2	70 - 130	106
LB259763.002	Mercury	mg/kg	0.05	0.21	0.2	70 - 130	104
LB259764.002	Mercury	mg/kg	0.05	0.19	0.2	70 - 130	96

OC Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB259640.002		Heptachlor	mg/kg	0.1	0.2	0.2	60 - 140	87
		Aldrin	mg/kg	0.1	0.2	0.2	60 - 140	78
		Delta BHC	mg/kg	0.1	0.1	0.2	60 - 140	70
		Dieldrin	mg/kg	0.2	<0.2	0.2	60 - 140	79
		Endrin	mg/kg	0.2	<0.2	0.2	60 - 140	90
		p,p'-DDT	mg/kg	0.1	0.2	0.2	60 - 140	79
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.13	0.15	40 - 130	89
LB259641.002		Heptachlor	mg/kg	0.1	0.2	0.2	60 - 140	105
		Aldrin	mg/kg	0.1	0.2	0.2	60 - 140	104
		Delta BHC	mg/kg	0.1	0.2	0.2	60 - 140	106
		Dieldrin	mg/kg	0.2	0.2	0.2	60 - 140	103
		Endrin	mg/kg	0.2	0.2	0.2	60 - 140	118
		p,p'-DDT	mg/kg	0.1	0.2	0.2	60 - 140	94
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.15	0.15	40 - 130	101
LB259642.002		Heptachlor	mg/kg	0.1	0.2	0.2	60 - 140	100
		Aldrin	mg/kg	0.1	0.2	0.2	60 - 140	99
		Delta BHC	mg/kg	0.1	0.2	0.2	60 - 140	98
		Dieldrin	mg/kg	0.2	<0.2	0.2	60 - 140	97
		Endrin	mg/kg	0.2	0.2	0.2	60 - 140	110
		p,p'-DDT	mg/kg	0.1	0.2	0.2	60 - 140	98
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.13	0.15	40 - 130	87

OC Pesticides in Water

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB259608.002		Delta BHC	µg/L	0.1	0.2	0.2	60 - 140	120
		Heptachlor	µg/L	0.1	0.2	0.2	60 - 140	120
		Aldrin	µg/L	0.1	0.2	0.2	60 - 140	109
		Dieldrin	µg/L	0.1	0.2	0.2	60 - 140	124
		Endrin	µg/L	0.1	0.3	0.2	60 - 140	137
		p,p'-DDT	µg/L	0.1	0.3	0.2	60 - 140	136
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	µg/L	-	0.12	0.15	40 - 130	82

OP Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB259640.002		Dichlorvos	mg/kg	0.5	1.5	2	60 - 140	73
		Diazinon (Dimpylate)	mg/kg	0.5	1.8	2	60 - 140	91
		Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	1.8	2	60 - 140	88
		Ethion	mg/kg	0.2	1.6	2	60 - 140	82
	Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	94
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	95
LB259641.002		Dichlorvos	mg/kg	0.5	1.3	2	60 - 140	67
		Diazinon (Dimpylate)	mg/kg	0.5	1.7	2	60 - 140	87
		Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	1.7	2	60 - 140	84
		Ethion	mg/kg	0.2	1.6	2	60 - 140	80
	Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.5	40 - 130	88
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	93
LB259642.002		Dichlorvos	mg/kg	0.5	1.5	2	60 - 140	74
		Diazinon (Dimpylate)	mg/kg	0.5	2.0	2	60 - 140	99
		Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	1.9	2	60 - 140	94

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

OP Pesticides in Soil (continued)

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB259642.002		Ethion	mg/kg	0.2	1.7	2	60 - 140	87
	Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	97
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	93

OP Pesticides in Water

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB259608.002		Dichlorvos	µg/L	0.5	7.9	8	60 - 140	99
		Diazinon (Dimpylate)	µg/L	0.5	8.5	8	60 - 140	106
		Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	8.5	8	60 - 140	106
		Ethion	µg/L	0.2	8.7	8	60 - 140	109
	Surrogates	2-fluorobiphenyl (Surrogate)	µg/L	-	0.3	0.5	40 - 130	68
		d14-p-terphenyl (Surrogate)	µg/L	-	0.4	0.5	40 - 130	82

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB259640.002		Naphthalene	mg/kg	0.1	4.3	4	60 - 140	109
		Acenaphthylene	mg/kg	0.1	4.1	4	60 - 140	103
		Acenaphthene	mg/kg	0.1	4.1	4	60 - 140	103
		Phenanthrene	mg/kg	0.1	4.1	4	60 - 140	103
		Anthracene	mg/kg	0.1	4.0	4	60 - 140	100
		Fluoranthene	mg/kg	0.1	3.9	4	60 - 140	97
		Pyrene	mg/kg	0.1	4.3	4	60 - 140	107
		Benzo(a)pyrene	mg/kg	0.1	3.8	4	60 - 140	95
	Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	107
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	94
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	95
LB259641.002		Naphthalene	mg/kg	0.1	4.3	4	60 - 140	109
		Acenaphthylene	mg/kg	0.1	4.0	4	60 - 140	100
		Acenaphthene	mg/kg	0.1	4.2	4	60 - 140	105
		Phenanthrene	mg/kg	0.1	4.1	4	60 - 140	101
		Anthracene	mg/kg	0.1	4.0	4	60 - 140	100
		Fluoranthene	mg/kg	0.1	4.0	4	60 - 140	99
		Pyrene	mg/kg	0.1	4.5	4	60 - 140	112
		Benzo(a)pyrene	mg/kg	0.1	3.8	4	60 - 140	94
	Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	92
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.5	40 - 130	88
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	93
LB259642.002		Naphthalene	mg/kg	0.1	4.4	4	60 - 140	109
		Acenaphthylene	mg/kg	0.1	4.2	4	60 - 140	104
		Acenaphthene	mg/kg	0.1	4.3	4	60 - 140	108
		Phenanthrene	mg/kg	0.1	4.3	4	60 - 140	107
		Anthracene	mg/kg	0.1	4.2	4	60 - 140	105
		Fluoranthene	mg/kg	0.1	4.2	4	60 - 140	105
		Pyrene	mg/kg	0.1	4.1	4	60 - 140	102
		Benzo(a)pyrene	mg/kg	0.1	4.0	4	60 - 140	101
	Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	109
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	97
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	93

PAH (Polynuclear Aromatic Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB259608.002		Naphthalene	µg/L	0.1	32	40	60 - 140	80
		Acenaphthylene	µg/L	0.1	30	40	60 - 140	74
		Acenaphthene	µg/L	0.1	32	40	60 - 140	80
		Phenanthrene	µg/L	0.1	34	40	60 - 140	85
		Anthracene	µg/L	0.1	33	40	60 - 140	84
		Fluoranthene	µg/L	0.1	33	40	60 - 140	82
		Pyrene	µg/L	0.1	33	40	60 - 140	82
		Benzo(a)pyrene	µg/L	0.1	32	40	60 - 140	81
	Surrogates	d5-nitrobenzene (Surrogate)	µg/L	-	0.3	0.5	40 - 130	64
		2-fluorobiphenyl (Surrogate)	µg/L	-	0.3	0.5	40 - 130	68
		d14-p-terphenyl (Surrogate)	µg/L	-	0.4	0.5	40 - 130	82

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

PCBs in Soil — Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB259640.002	Arochlor 1260	mg/kg	0.2	0.5	0.4	60 - 140	113
LB259641.002	Arochlor 1260	mg/kg	0.2	0.4	0.4	60 - 140	108
LB259642.002	Arochlor 1260	mg/kg	0.2	0.4	0.4	60 - 140	111

PCBs in Water — Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB259608.002	Arochlor 1260	µg/L	1	<1	0.4	60 - 140	131

pH in soil (1:5) — Method: ME-(AU)-[ENV]AN101

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB259572.003	pH	pH Units	0.1	7.4	7.415	98 - 102	100

Speciated Phenols in Soil — Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB259640.002		Phenol	mg/kg	0.5	1.1	1	70 - 130	110
		2,4-dichlorophenol	mg/kg	0.5	1.2	1	70 - 130	124
		2,4,6-trichlorophenol	mg/kg	0.5	1.0	1	70 - 130	103
		Pentachlorophenol	mg/kg	0.5	1.3	1	70 - 130	125
	Surrogates	2,4,6-Tribromophenol (Surrogate)	mg/kg	-	4.7	5	40 - 130	94
		d5-phenol (Surrogate)	mg/kg	-	1.8	2	40 - 130	92
LB259641.002		Phenol	mg/kg	0.5	1.1	1	70 - 130	108
		2,4-dichlorophenol	mg/kg	0.5	1.3	1	70 - 130	127
		2,4,6-trichlorophenol	mg/kg	0.5	1.1	1	70 - 130	107
		Pentachlorophenol	mg/kg	0.5	1.2	1	70 - 130	120
	Surrogates	2,4,6-Tribromophenol (Surrogate)	mg/kg	-	4.9	5	40 - 130	98
		d5-phenol (Surrogate)	mg/kg	-	1.8	2	40 - 130	91
LB259642.002		Phenol	mg/kg	0.5	0.8	1	70 - 130	79
		2,4-dichlorophenol	mg/kg	0.5	0.9	1	70 - 130	85
		2,4,6-trichlorophenol	mg/kg	0.5	0.7	1	70 - 130	70
		Pentachlorophenol	mg/kg	0.5	0.9	1	70 - 130	91
	Surrogates	2,4,6-Tribromophenol (Surrogate)	mg/kg	-	4.0	5	40 - 130	80
		d5-phenol (Surrogate)	mg/kg	-	1.5	2	40 - 130	76

Speciated Phenols in Water — Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB259608.002		Phenol	µg/L	0.5	44	40	60 - 140	109
		2,4-dichlorophenol	µg/L	0.5	48	40	60 - 140	121
		2,4,6-trichlorophenol	µg/L	0.5	40	40	60 - 140	100
		Pentachlorophenol	µg/L	0.5	51	40	60 - 140	128
	Surrogates	2,4,6-Tribromophenol (Surrogate)	µg/L	-	4.9	5	40 - 130	98
		d5-phenol (Surrogate)	µg/L	-	2.3	2	40 - 130	113

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES — Method: ME-(AU)-[ENV]AN040/AN320

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB259756.002	Arsenic, As	mg/kg	1	340	318.22	80 - 120	108
	Cadmium, Cd	mg/kg	0.3	4.4	4.81	70 - 130	92
	Chromium, Cr	mg/kg	0.5	38	38.31	80 - 120	99
	Copper, Cu	mg/kg	0.5	310	290	80 - 120	107
	Nickel, Ni	mg/kg	0.5	190	187	80 - 120	101
	Lead, Pb	mg/kg	1	91	89.9	80 - 120	102
	Zinc, Zn	mg/kg	2	280	273	80 - 120	103
LB259757.002	Arsenic, As	mg/kg	1	340	318.22	80 - 120	107
	Cadmium, Cd	mg/kg	0.3	4.5	4.81	70 - 130	94
	Chromium, Cr	mg/kg	0.5	37	38.31	80 - 120	97
	Copper, Cu	mg/kg	0.5	320	290	80 - 120	109
	Nickel, Ni	mg/kg	0.5	190	187	80 - 120	104
	Lead, Pb	mg/kg	1	95	89.9	80 - 120	106
	Zinc, Zn	mg/kg	2	280	273	80 - 120	104
LB259758.002	Arsenic, As	mg/kg	1	340	318.22	80 - 120	105

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES (continued)

Method: ME-(AU)-[ENV]AN040/AN320

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB259758.002	Cadmium, Cd	mg/kg	0.3	4.3	4.81	70 - 130	90
	Chromium, Cr	mg/kg	0.5	38	38.31	80 - 120	100
	Copper, Cu	mg/kg	0.5	320	290	80 - 120	109
	Nickel, Ni	mg/kg	0.5	190	187	80 - 120	103
	Lead, Pb	mg/kg	1	93	89.9	80 - 120	103
	Zinc, Zn	mg/kg	2	280	273	80 - 120	103
LB259760.002	Arsenic, As	mg/kg	1	340	318.22	80 - 120	106
	Cadmium, Cd	mg/kg	0.3	4.7	4.81	70 - 130	99
	Chromium, Cr	mg/kg	0.5	39	38.31	80 - 120	103
	Copper, Cu	mg/kg	0.5	320	290	80 - 120	111
	Nickel, Ni	mg/kg	0.5	190	187	80 - 120	104
	Lead, Pb	mg/kg	1	92	89.9	80 - 120	103
	Zinc, Zn	mg/kg	2	280	273	80 - 120	104

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB259733.002	Arsenic	µg/L	1	19	20	80 - 120	96
	Cadmium	µg/L	0.1	21	20	80 - 120	104
	Chromium	µg/L	1	20	20	80 - 120	100
	Copper	µg/L	1	21	20	80 - 120	105
	Lead	µg/L	1	20	20	80 - 120	100
	Nickel	µg/L	1	21	20	80 - 120	104
	Zinc	µg/L	5	21	20	80 - 120	106
LB259733.026	Arsenic	µg/L	1	20	20	80 - 120	101
	Cadmium	µg/L	0.1	21	20	80 - 120	107
	Chromium	µg/L	1	20	20	80 - 120	101
	Copper	µg/L	1	21	20	80 - 120	104
	Lead	µg/L	1	20	20	80 - 120	100
	Nickel	µg/L	1	20	20	80 - 120	102
	Zinc	µg/L	5	21	20	80 - 120	104

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB259640.002		TRH C10-C14	mg/kg	20	48	40	60 - 140	120
		TRH C15-C28	mg/kg	45	45	40	60 - 140	113
		TRH C29-C36	mg/kg	45	<45	40	60 - 140	88
	TRH F Bands	TRH >C10-C16	mg/kg	25	47	40	60 - 140	118
		TRH >C16-C34 (F3)	mg/kg	90	<90	40	60 - 140	100
		TRH >C34-C40 (F4)	mg/kg	120	<120	20	60 - 140	85
LB259641.002		TRH C10-C14	mg/kg	20	41	40	60 - 140	103
		TRH C15-C28	mg/kg	45	45	40	60 - 140	113
		TRH C29-C36	mg/kg	45	<45	40	60 - 140	90
	TRH F Bands	TRH >C10-C16	mg/kg	25	42	40	60 - 140	105
		TRH >C16-C34 (F3)	mg/kg	90	<90	40	60 - 140	108
		TRH >C34-C40 (F4)	mg/kg	120	<120	20	60 - 140	90
LB259642.002		TRH C10-C14	mg/kg	20	41	40	60 - 140	103
		TRH C15-C28	mg/kg	45	<45	40	60 - 140	98
		TRH C29-C36	mg/kg	45	<45	40	60 - 140	95
	TRH F Bands	TRH >C10-C16	mg/kg	25	41	40	60 - 140	103
		TRH >C16-C34 (F3)	mg/kg	90	<90	40	60 - 140	95
		TRH >C34-C40 (F4)	mg/kg	120	<120	20	60 - 140	100

TRH (Total Recoverable Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN403

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB259608.002		TRH C10-C14	µg/L	50	1500	1200	60 - 140	123
		TRH C15-C28	µg/L	200	1300	1200	60 - 140	111
		TRH C29-C36	µg/L	200	1100	1200	60 - 140	88
	TRH F Bands	TRH >C10-C16	µg/L	60	1400	1200	60 - 140	116
		TRH >C16-C34 (F3)	µg/L	500	1300	1200	60 - 140	107
		TRH >C34-C40 (F4)	µg/L	500	530	600	60 - 140	88

VOC's in Soil

Method: ME-(AU)-[ENV]AN433

Sample Number	Parameter	Units	LOR

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

VOC's in Soil (continued)

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB259664.002	Monocyclic	Benzene	mg/kg	0.1	4.6	5	60 - 140	92
	Aromatic	Toluene	mg/kg	0.1	4.5	5	60 - 140	89
	Hydrocarbons	Ethylbenzene	mg/kg	0.1	4.7	5	60 - 140	94
		m/p-xylene	mg/kg	0.2	9.0	10	60 - 140	90
		o-xylene	mg/kg	0.1	4.9	5	60 - 140	99
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	10.0	10	70 - 130	100
		d8-toluene (Surrogate)	mg/kg	-	9.6	10	70 - 130	96
		Bromofluorobenzene (Surrogate)	mg/kg	-	9.3	10	70 - 130	93
LB259665.002	Monocyclic	Benzene	mg/kg	0.1	4.6	5	60 - 140	93
	Aromatic	Toluene	mg/kg	0.1	4.5	5	60 - 140	91
	Hydrocarbons	Ethylbenzene	mg/kg	0.1	4.5	5	60 - 140	90
		m/p-xylene	mg/kg	0.2	8.7	10	60 - 140	87
		o-xylene	mg/kg	0.1	4.7	5	60 - 140	93
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.9	10	70 - 130	99
		d8-toluene (Surrogate)	mg/kg	-	9.6	10	70 - 130	96
		Bromofluorobenzene (Surrogate)	mg/kg	-	8.6	10	70 - 130	86
LB259666.002	Monocyclic	Benzene	mg/kg	0.1	4.0	5	60 - 140	81
	Aromatic	Toluene	mg/kg	0.1	4.3	5	60 - 140	86
	Hydrocarbons	Ethylbenzene	mg/kg	0.1	4.2	5	60 - 140	83
		m/p-xylene	mg/kg	0.2	8.3	10	60 - 140	83
		o-xylene	mg/kg	0.1	4.5	5	60 - 140	89
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.2	10	70 - 130	82
		d8-toluene (Surrogate)	mg/kg	-	7.8	10	70 - 130	78
		Bromofluorobenzene (Surrogate)	mg/kg	-	8.1	10	70 - 130	81

VOCs in Water

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB259754.002	Monocyclic	Benzene	µg/L	0.5	50	45.45	60 - 140	110
	Aromatic	Toluene	µg/L	0.5	50	45.45	60 - 140	109
	Hydrocarbons	Ethylbenzene	µg/L	0.5	51	45.45	60 - 140	111
		m/p-xylene	µg/L	1	100	90.9	60 - 140	110
		o-xylene	µg/L	0.5	50	45.45	60 - 140	110

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB259664.002		TRH C6-C10	mg/kg	25	71	92.5	60 - 140	76
		TRH C6-C9	mg/kg	20	62	80	60 - 140	77
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	10.0	10	70 - 130	100
		Bromofluorobenzene (Surrogate)	mg/kg	-	9.3	10	70 - 130	93
	VPH F Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	43	62.5	60 - 140	69
LB259665.002		TRH C6-C10	mg/kg	25	69	92.5	60 - 140	75
		TRH C6-C9	mg/kg	20	62	80	60 - 140	77
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.9	10	70 - 130	99
		Bromofluorobenzene (Surrogate)	mg/kg	-	8.6	10	70 - 130	86
	VPH F Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	42	62.5	60 - 140	68
LB259666.002		TRH C6-C10	mg/kg	25	69	92.5	60 - 140	74
		TRH C6-C9	mg/kg	20	58	80	60 - 140	72
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.2	10	70 - 130	82
		Bromofluorobenzene (Surrogate)	mg/kg	-	8.1	10	70 - 130	81
	VPH F Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	43	62.5	60 - 140	69

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB259754.002		TRH C6-C10	µg/L	50	890	946.63	60 - 140	94
		TRH C6-C9	µg/L	40	770	818.71	60 - 140	94
	VPH F Bands	TRH C6-C10 minus BTEX (F1)	µg/L	50	590	639.67	60 - 140	92

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Mercury (dissolved) in Water

Method: ME-(AU)-[ENV]AN311(Perth)/AN312

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE237064.029	LB259392.004	Mercury	mg/L	0.0001	0.0018	<0.0001	0.008	89

Mercury in Soil

Method: ME-(AU)-[ENV]AN312

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE237144.002	LB259761.004	Mercury	mg/kg	0.05	0.22	<0.05	0.2	97
SE237144.021	LB259762.004	Mercury	mg/kg	0.05	0.23	<0.05	0.2	108
SE237144.040	LB259763.004	Mercury	mg/kg	0.05	0.21	<0.05	0.2	94
SE237144.059	LB259764.004	Mercury	mg/kg	0.05	0.18	<0.05	0.2	74

OC Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE237144.002	LB259640.004		Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	-	-
			Alpha BHC	mg/kg	0.1	<0.1	<0.1	-	-
			Lindane	mg/kg	0.1	<0.1	<0.1	-	-
			Heptachlor	mg/kg	0.1	0.2	<0.1	0.2	97
			Aldrin	mg/kg	0.1	0.2	<0.1	0.2	88
			Beta BHC	mg/kg	0.1	<0.1	<0.1	-	-
			Delta BHC	mg/kg	0.1	0.2	<0.1	0.2	84
			Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	-	-
			o,p'-DDE	mg/kg	0.1	<0.1	<0.1	-	-
			Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	-	-
			Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	-	-
			Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	-	-
			trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	-	-
			p,p'-DDE	mg/kg	0.1	<0.1	<0.1	-	-
			Dieldrin	mg/kg	0.2	<0.2	<0.2	0.2	89
			Endrin	mg/kg	0.2	0.2	<0.2	0.2	103
			o,p'-DDD	mg/kg	0.1	<0.1	<0.1	-	-
			o,p'-DDT	mg/kg	0.1	<0.1	<0.1	-	-
			Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	-	-
			p,p'-DDD	mg/kg	0.1	<0.1	<0.1	-	-
			p,p'-DDT	mg/kg	0.1	0.2	<0.1	0.2	84
			Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	-	-
			Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	-	-
			Methoxychlor	mg/kg	0.1	<0.1	<0.1	-	-
			Endrin Ketone	mg/kg	0.1	<0.1	<0.1	-	-
			Isodrin	mg/kg	0.1	<0.1	<0.1	-	-
			Mirex	mg/kg	0.1	<0.1	<0.1	-	-
			Total CLP OC Pesticides	mg/kg	1	1	<1	-	-
			Total OC VIC EPA	mg/kg	1	1	<1	-	-
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.13	0.13	-	89
SE237144.021	LB259641.004		Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	-	-
			Alpha BHC	mg/kg	0.1	<0.1	<0.1	-	-
			Lindane	mg/kg	0.1	<0.1	<0.1	-	-
			Heptachlor	mg/kg	0.1	0.2	<0.1	0.2	104
			Aldrin	mg/kg	0.1	0.2	<0.1	0.2	102
			Beta BHC	mg/kg	0.1	<0.1	<0.1	-	-
			Delta BHC	mg/kg	0.1	0.2	<0.1	0.2	104
			Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	-	-
			o,p'-DDE	mg/kg	0.1	<0.1	<0.1	-	-
			Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	-	-
			Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	-	-
			Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	-	-
			trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	-	-
			p,p'-DDE	mg/kg	0.1	<0.1	<0.1	-	-
			Dieldrin	mg/kg	0.2	0.2	<0.2	0.2	100
			Endrin	mg/kg	0.2	0.2	<0.2	0.2	114
			o,p'-DDD	mg/kg	0.1	<0.1	<0.1	-	-
			o,p'-DDT	mg/kg	0.1	<0.1	<0.1	-	-

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

OC Pesticides in Soil (continued)

Method: ME-(AU)-[ENV]AN420

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE237144.021	LB259641.004		Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	-	-
			p,p'-DDD	mg/kg	0.1	<0.1	<0.1	-	-
			p,p'-DDT	mg/kg	0.1	0.2	<0.1	0.2	93
			Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	-	-
			Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	-	-
			Methoxychlor	mg/kg	0.1	<0.1	<0.1	-	-
			Endrin Ketone	mg/kg	0.1	<0.1	<0.1	-	-
			Isodrin	mg/kg	0.1	<0.1	<0.1	-	-
			Mirex	mg/kg	0.1	<0.1	<0.1	-	-
			Total CLP OC Pesticides	mg/kg	1	1	<1	-	-
			Total OC VIC EPA	mg/kg	1	1	<1	-	-
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.16	0.16	-	105
SE237144.041	LB259642.004		Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	-	-
			Alpha BHC	mg/kg	0.1	<0.1	<0.1	-	-
			Lindane	mg/kg	0.1	<0.1	<0.1	-	-
			Heptachlor	mg/kg	0.1	0.2	<0.1	0.2	109
			Aldrin	mg/kg	0.1	0.2	<0.1	0.2	108
			Beta BHC	mg/kg	0.1	<0.1	<0.1	-	-
			Delta BHC	mg/kg	0.1	0.2	<0.1	0.2	108
			Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	-	-
			o,p'-DDE	mg/kg	0.1	<0.1	<0.1	-	-
			Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	-	-
			Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	-	-
			Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	-	-
			trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	-	-
			p,p'-DDE	mg/kg	0.1	<0.1	<0.1	-	-
			Dieldrin	mg/kg	0.2	0.2	<0.2	0.2	106
			Endrin	mg/kg	0.2	0.2	<0.2	0.2	123
			o,p'-DDD	mg/kg	0.1	<0.1	<0.1	-	-
			o,p'-DDT	mg/kg	0.1	<0.1	<0.1	-	-
			Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	-	-
			p,p'-DDD	mg/kg	0.1	<0.1	<0.1	-	-
			p,p'-DDT	mg/kg	0.1	0.2	<0.1	0.2	110
			Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	-	-
			Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	-	-
			Methoxychlor	mg/kg	0.1	<0.1	<0.1	-	-
			Endrin Ketone	mg/kg	0.1	<0.1	<0.1	-	-
			Isodrin	mg/kg	0.1	<0.1	<0.1	-	-
			Mirex	mg/kg	0.1	<0.1	<0.1	-	-
			Total CLP OC Pesticides	mg/kg	1	1	<1	-	-
			Total OC VIC EPA	mg/kg	1	1	<1	-	-
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.15	0.15	-	101

OP Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE237144.002	LB259640.004		Dichlorvos	mg/kg	0.5	1.6	<0.5	2	76
			Dimethoate	mg/kg	0.5	<0.5	<0.5	-	-
			Diazinon (Dimpylate)	mg/kg	0.5	1.8	<0.5	2	92
			Fenitrothion	mg/kg	0.2	<0.2	<0.2	-	-
			Malathion	mg/kg	0.2	<0.2	<0.2	-	-
			Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	1.8	<0.2	2	88
			Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	-	-
			Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	-	-
			Methidathion	mg/kg	0.5	<0.5	<0.5	-	-
			Ethion	mg/kg	0.2	1.7	<0.2	2	84
			Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	-	-
			Total OP Pesticides*	mg/kg	1.7	6.9	<1.7	-	-
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	97
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	97
SE237144.021	LB259641.004		Dichlorvos	mg/kg	0.5	1.3	<0.5	2	63
			Dimethoate	mg/kg	0.5	<0.5	<0.5	-	-

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

OP Pesticides in Soil (continued)

Method: ME-(AU)-[ENV]AN420

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE237144.021	LB259641.004		Diazinon (Dimpylate)	mg/kg	0.5	1.7	<0.5	2	86
			Fenitrothion	mg/kg	0.2	<0.2	<0.2	-	-
			Malathion	mg/kg	0.2	<0.2	<0.2	-	-
			Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	1.7	<0.2	2	85
			Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	-	-
			Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	-	-
			Methidathion	mg/kg	0.5	<0.5	<0.5	-	-
			Ethion	mg/kg	0.2	1.6	<0.2	2	79
			Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	-	-
			Total OP Pesticides*	mg/kg	1.7	6.3	<1.7	-	-
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.5	-	89
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	96
SE237144.041	LB259642.004		Dichlorvos	mg/kg	0.5	1.5	<0.5	2	77
			Dimethoate	mg/kg	0.5	<0.5	<0.5	-	-
			Diazinon (Dimpylate)	mg/kg	0.5	2.0	<0.5	2	100
			Fenitrothion	mg/kg	0.2	<0.2	<0.2	-	-
			Malathion	mg/kg	0.2	<0.2	<0.2	-	-
			Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	1.9	<0.2	2	95
			Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	-	-
			Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	-	-
			Methidathion	mg/kg	0.5	<0.5	<0.5	-	-
			Ethion	mg/kg	0.2	1.8	<0.2	2	88
			Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	-	-
			Total OP Pesticides*	mg/kg	1.7	7.2	<1.7	-	-
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.4	-	99
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	95

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN420

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE237144.002	LB259640.004		Naphthalene	mg/kg	0.1	4.3	<0.1	4	109
			2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	-	-
			1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	-	-
			Acenaphthylene	mg/kg	0.1	4.1	<0.1	4	103
			Acenaphthene	mg/kg	0.1	4.2	<0.1	4	104
			Fluorene	mg/kg	0.1	<0.1	<0.1	-	-
			Phenanthrene	mg/kg	0.1	4.1	<0.1	4	102
			Anthracene	mg/kg	0.1	4.0	<0.1	4	99
			Fluoranthene	mg/kg	0.1	3.9	<0.1	4	96
			Pyrene	mg/kg	0.1	4.2	<0.1	4	106
			Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	-	-
			Chrysene	mg/kg	0.1	<0.1	<0.1	-	-
			Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	-	-
			Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	-	-
			Benzo(a)pyrene	mg/kg	0.1	3.8	<0.1	4	95
			Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	-	-
			Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	-	-
			Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ (mg/kg)	0.2	3.8	<0.2	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	0.3	3.9	<0.3	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	3.9	<0.2	-	-
			Total PAH (18)	mg/kg	0.8	33	<0.8	-	-
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	-	106
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	97
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	97
SE237144.021	LB259641.004		Naphthalene	mg/kg	0.1	4.2	<0.1	4	106
			2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	-	-
			1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	-	-
			Acenaphthylene	mg/kg	0.1	4.0	<0.1	4	100
			Acenaphthene	mg/kg	0.1	4.2	<0.1	4	104
			Fluorene	mg/kg	0.1	<0.1	<0.1	-	-
			Phenanthrene	mg/kg	0.1	4.0	<0.1	4	100

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

Method: ME-(AU)-[ENV]AN420

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE237144.021	LB259641.004		Anthracene	mg/kg	0.1	4.1	<0.1	4	102
			Fluoranthene	mg/kg	0.1	3.9	<0.1	4	99
			Pyrene	mg/kg	0.1	4.4	<0.1	4	110
			Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	-	-
			Chrysene	mg/kg	0.1	<0.1	<0.1	-	-
			Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	-	-
			Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	-	-
			Benzo(a)pyrene	mg/kg	0.1	3.8	<0.1	4	94
			Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	-	-
			Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	-	-
			Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ (mg/kg)	0.2	3.8	<0.2	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	0.3	3.9	<0.3	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	3.8	<0.2	-	-
			Total PAH (18)	mg/kg	0.8	33	<0.8	-	-
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	-	96
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.5	-	89
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	96
SE237144.041	LB259642.004		Naphthalene	mg/kg	0.1	4.3	<0.1	4	108
			2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	-	-
			1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	-	-
			Acenaphthylene	mg/kg	0.1	4.1	<0.1	4	103
			Acenaphthene	mg/kg	0.1	4.3	<0.1	4	107
			Fluorene	mg/kg	0.1	<0.1	<0.1	-	-
			Phenanthrene	mg/kg	0.1	4.3	<0.1	4	107
			Anthracene	mg/kg	0.1	4.3	<0.1	4	106
			Fluoranthene	mg/kg	0.1	4.2	<0.1	4	104
			Pyrene	mg/kg	0.1	4.1	<0.1	4	102
			Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	-	-
			Chrysene	mg/kg	0.1	<0.1	<0.1	-	-
			Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	-	-
			Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	-	-
			Benzo(a)pyrene	mg/kg	0.1	4.0	<0.1	4	101
			Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	-	-
			Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	-	-
			Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ (mg/kg)	0.2	4.0	<0.2	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	0.3	4.2	<0.3	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	4.1	<0.2	-	-
			Total PAH (18)	mg/kg	0.8	34	<0.8	-	-
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.6	0.5	-	114
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.4	-	99
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	95

PCBs in Soil

Method: ME-(AU)-[ENV]AN420

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE237144.002	LB259640.004		Arochlor 1016	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1221	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1232	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1242	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1248	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1254	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1260	mg/kg	0.2	0.5	<0.2	0.4	117
			Arochlor 1262	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1268	mg/kg	0.2	<0.2	<0.2	-	-
			Total PCBs (Arochlors)	mg/kg	1	<1	<1	-	-
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0	0	-	89
SE237144.021	LB259641.004		Arochlor 1016	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1221	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1232	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1242	mg/kg	0.2	<0.2	<0.2	-	-

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

PCBs in Soil (continued)

Method: ME-(AU)-[ENV]AN420

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE237144.021	LB259641.004		Arochlor 1248	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1254	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1260	mg/kg	0.2	0.4	<0.2	0.4	101
			Arochlor 1262	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1268	mg/kg	0.2	<0.2	<0.2	-	-
			Total PCBs (Arochlors)	mg/kg	1	<1	<1	-	-
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0	0	-	105
SE237144.041	LB259642.004		Arochlor 1016	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1221	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1232	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1242	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1248	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1254	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1260	mg/kg	0.2	0.5	<0.2	0.4	126
			Arochlor 1262	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1268	mg/kg	0.2	<0.2	<0.2	-	-
			Total PCBs (Arochlors)	mg/kg	1	<1	<1	-	-
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0	0	-	101

Speciated Phenols in Soil

Method: ME-(AU)-[ENV]AN420

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE237144.002	LB259640.004		Phenol	mg/kg	0.5	1.0	<0.5	1	103
			2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	-	-
			3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	-	-
			Total Cresol	mg/kg	1.5	<1.5	<1.5	-	-
			2-chlorophenol	mg/kg	0.5	<0.5	<0.5	-	-
			2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	-	-
			2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	-	-
			2,4-dichlorophenol	mg/kg	0.5	1.2	<0.5	1	117
			2,4,6-trichlorophenol	mg/kg	0.5	1.0	<0.5	1	98
			2-nitrophenol	mg/kg	0.5	<0.5	<0.5	-	-
			4-nitrophenol	mg/kg	1	<1	<1	-	-
			2,4,5-trichlorophenol	mg/kg	0.5	0.8	<0.5	-	-
			2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	-	-
			Pentachlorophenol	mg/kg	0.5	1.1	<0.5	1	106
			2,4-dinitrophenol	mg/kg	2	<2	<2	-	-
			4-chloro-3-methylphenol	mg/kg	2	<2	<2	-	-
		Surrogates	2,4,6-Tribromophenol (Surrogate)	mg/kg	-	4.7	4.5	-	94
			d5-phenol (Surrogate)	mg/kg	-	1.8	1.7	-	88
SE237144.021	LB259641.004		Phenol	mg/kg	0.5	0.9	<0.5	1	85
			2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	-	-
			3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	-	-
			Total Cresol	mg/kg	1.5	<1.5	<1.5	-	-
			2-chlorophenol	mg/kg	0.5	<0.5	<0.5	-	-
			2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	-	-
			2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	-	-
			2,4-dichlorophenol	mg/kg	0.5	1.2	<0.5	1	115
			2,4,6-trichlorophenol	mg/kg	0.5	0.9	<0.5	1	89
			2-nitrophenol	mg/kg	0.5	<0.5	<0.5	-	-
			4-nitrophenol	mg/kg	1	<1	<1	-	-
			2,4,5-trichlorophenol	mg/kg	0.5	0.7	<0.5	-	-
			2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	-	-
			Pentachlorophenol	mg/kg	0.5	1.1	<0.5	1	114
			2,4-dinitrophenol	mg/kg	2	<2	<2	-	-
			4-chloro-3-methylphenol	mg/kg	2	<2	<2	-	-
		Surrogates	2,4,6-Tribromophenol (Surrogate)	mg/kg	-	4.4	4.7	-	87
			d5-phenol (Surrogate)	mg/kg	-	1.4	1.6	-	71

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

Method: ME-(AU)-[ENV]AN040/AN320

QC Sample	Sample Number	Parameter	Units	LOR

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES (continued)

Method: ME-(AU)-[ENV]AN040/AN320

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE237144.002	LB259756.004	Arsenic, As	mg/kg	1	43	4	50	78
		Cadmium, Cd	mg/kg	0.3	44	<0.3	50	88
		Chromium, Cr	mg/kg	0.5	95	67	50	56 ④
		Copper, Cu	mg/kg	0.5	81	43	50	75
		Nickel, Ni	mg/kg	0.5	110	88	50	53 ④
		Lead, Pb	mg/kg	1	48	7	50	81
		Zinc, Zn	mg/kg	2	78	44	50	69 ④
SE237144.021	LB259757.004	Arsenic, As	mg/kg	1	41	3	50	75
		Cadmium, Cd	mg/kg	0.3	41	<0.3	50	82
		Chromium, Cr	mg/kg	0.5	92	50	50	84
		Copper, Cu	mg/kg	0.5	72	30	50	85
		Nickel, Ni	mg/kg	0.5	88	54	50	68 ④
		Lead, Pb	mg/kg	1	46	6	50	79
		Zinc, Zn	mg/kg	2	74	32	50	84
SE237144.040	LB259758.004	Arsenic, As	mg/kg	1	43	3	50	80
		Cadmium, Cd	mg/kg	0.3	42	<0.3	50	84
		Chromium, Cr	mg/kg	0.5	95	68	50	54 ④
		Copper, Cu	mg/kg	0.5	79	46	50	66 ④
		Nickel, Ni	mg/kg	0.5	99	75	50	48 ④
		Lead, Pb	mg/kg	1	44	6	50	77
		Zinc, Zn	mg/kg	2	82	51	50	64 ④
SE237144.059	LB259760.004	Arsenic, As	mg/kg	1	44	5	50	77
		Cadmium, Cd	mg/kg	0.3	42	<0.3	50	84
		Chromium, Cr	mg/kg	0.5	88	52	50	72
		Copper, Cu	mg/kg	0.5	83	36	50	94
		Nickel, Ni	mg/kg	0.5	100	56	50	91
		Lead, Pb	mg/kg	1	54	41	50	26 ⑨
		Zinc, Zn	mg/kg	2	120	170	50	-107 ④

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE237136.001	LB259733.004	Arsenic	µg/L	1	38	16	20	110
		Cadmium	µg/L	0.1	21	0.4	20	103
		Copper	µg/L	1	20	2	20	91
		Lead	µg/L	1	19	<1	20	96
		Nickel	µg/L	1	71	54	20	85
		Zinc	µg/L	5	53	34	20	92
SE237278.007	LB259733.030	Cadmium	µg/L	0.1	21	<0.0001	20	103
		Chromium	µg/L	1	21	<0.001	20	100
		Copper	µg/L	1	31	0.011	20	101
		Lead	µg/L	1	21	<0.001	20	101
		Nickel	µg/L	1	25	0.004	20	101
		Zinc	µg/L	5	42	0.021	20	106

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE237144.002	LB259640.004		TRH C10-C14	mg/kg	20	44	<20	40	110
			TRH C15-C28	mg/kg	45	45	<45	40	113
			TRH C29-C36	mg/kg	45	<45	<45	40	95
			TRH C37-C40	mg/kg	100	<100	<100	-	-
			TRH C10-C36 Total	mg/kg	110	<110	<110	-	-
			TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	-	-
		TRH F Bands	TRH >C10-C16	mg/kg	25	44	<25	40	110
			TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	44	<25	-	-
			TRH >C16-C34 (F3)	mg/kg	90	<90	<90	40	110
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	-	-
SE237144.021	LB259641.004		TRH C10-C14	mg/kg	20	39	<20	40	98
			TRH C15-C28	mg/kg	45	<45	<45	40	98
			TRH C29-C36	mg/kg	45	<45	<45	40	90
			TRH C37-C40	mg/kg	100	<100	<100	-	-
			TRH C10-C36 Total	mg/kg	110	<110	<110	-	-
			TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	-	-

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

TRH (Total Recoverable Hydrocarbons) in Soil (continued)

Method: ME-(AU)-[ENV]AN403

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE237144.021	LB259641.004	TRH F Bands	TRH >C10-C16	mg/kg	25	40	<25	40	100
			TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	40	<25	-	-
			TRH >C16-C34 (F3)	mg/kg	90	<90	<90	40	98
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	-	-
SE237144.041	LB259642.004		TRH C10-C14	mg/kg	20	40	<20	40	100
			TRH C15-C28	mg/kg	45	<45	<45	40	100
			TRH C29-C36	mg/kg	45	<45	<45	40	100
			TRH C37-C40	mg/kg	100	<100	<100	-	-
			TRH C10-C36 Total	mg/kg	110	<110	<110	-	-
			TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	-	-
		TRH F Bands	TRH >C10-C16	mg/kg	25	40	<25	40	100
			TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	40	<25	-	-
			TRH >C16-C34 (F3)	mg/kg	90	<90	<90	40	103
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	-	-

VOC's in Soil

Method: ME-(AU)-[ENV]AN433

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE237144.002	LB259664.004	Monocyclic Aromatic Hydrocarbons	Benzene	mg/kg	0.1	3.7	<0.1	5	75
			Toluene	mg/kg	0.1	3.6	<0.1	5	72
			Ethylbenzene	mg/kg	0.1	3.8	<0.1	5	77
			m/p-xylene	mg/kg	0.2	7.5	<0.2	10	75
			o-xylene	mg/kg	0.1	4.2	<0.1	5	84
		Polycyclic	Naphthalene (VOC)	mg/kg	0.1	<0.1	<0.1	-	-
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	7.6	8.0	10	76
			d8-toluene (Surrogate)	mg/kg	-	6.9	8.9	10	69 ①
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.7	9.5	10	77
		Totals	Total Xylenes	mg/kg	0.3	12	<0.3	-	-
			Total BTEX	mg/kg	0.6	23	<0.6	-	-
SE237144.021	LB259665.004	Monocyclic Aromatic Hydrocarbons	Benzene	mg/kg	0.1	4.6	<0.1	5	92
			Toluene	mg/kg	0.1	4.4	<0.1	5	88
			Ethylbenzene	mg/kg	0.1	4.4	<0.1	5	87
			m/p-xylene	mg/kg	0.2	8.7	<0.2	10	87
			o-xylene	mg/kg	0.1	4.6	<0.1	5	92
		Polycyclic	Naphthalene (VOC)	mg/kg	0.1	<0.1	<0.1	-	-
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.1	10.3	10	91
			d8-toluene (Surrogate)	mg/kg	-	8.9	10.0	10	89
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.3	10.9	10	83
		Totals	Total Xylenes	mg/kg	0.3	13	<0.3	-	-
			Total BTEX	mg/kg	0.6	27	<0.6	-	-
SE237144.041	LB259666.004	Monocyclic Aromatic Hydrocarbons	Benzene	mg/kg	0.1	3.6	<0.1	5	71
			Toluene	mg/kg	0.1	3.9	<0.1	5	78
			Ethylbenzene	mg/kg	0.1	3.8	<0.1	5	76
			m/p-xylene	mg/kg	0.2	7.6	<0.2	10	76
			o-xylene	mg/kg	0.1	4.1	<0.1	5	82
		Polycyclic	Naphthalene (VOC)	mg/kg	0.1	<0.1	<0.1	-	-
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.0	7.7	10	90
			d8-toluene (Surrogate)	mg/kg	-	8.3	7.7	10	83
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.6	7.9	10	86
		Totals	Total Xylenes	mg/kg	0.3	12	<0.3	-	-
			Total BTEX	mg/kg	0.6	23	<0.6	-	-

VOCs in Water

Method: ME-(AU)-[ENV]AN433

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE237110.001	LB259754.028	Monocyclic Aromatic Hydrocarbons	Benzene	µg/L	0.5	57	<0.5	45.45	126
			Toluene	µg/L	0.5	57	<0.5	45.45	126
			Ethylbenzene	µg/L	0.5	53	<0.5	45.45	116
			m/p-xylene	µg/L	1	100	<1	90.9	115
			o-xylene	µg/L	0.5	53	<0.5	45.45	116
		Polycyclic	Naphthalene (VOC)	µg/L	0.5	58	<0.5	-	-
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/L	-	0.0	0.0	-	96
			d8-toluene (Surrogate)	mg/L	-	0.0	0.0	-	107
			Bromofluorobenzene (Surrogate)	mg/L	-	0.0	0.0	-	100

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-[ENV]AN433

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE237144.002	LB259664.004		TRH C6-C10	mg/kg	25	61	<25	92.5	65
			TRH C6-C9	mg/kg	20	55	<20	80	68
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	7.6	8.0	10	76
			d8-toluene (Surrogate)	mg/kg	-	6.9	8.9	10	69 ①
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.7	9.5	-	77
		VPH F	Benzene (F0)	mg/kg	0.1	3.7	<0.1	-	-
		Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	38	<25	62.5	60
SE237144.021	LB259665.004		TRH C6-C10	mg/kg	25	80	<25	92.5	86
			TRH C6-C9	mg/kg	20	72	<20	80	90
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.1	10.3	10	91
			d8-toluene (Surrogate)	mg/kg	-	8.9	10.0	10	89
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.3	10.9	-	83
		VPH F	Benzene (F0)	mg/kg	0.1	4.6	<0.1	-	-
		Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	54	<25	62.5	85
SE237144.041	LB259666.005		TRH C6-C10	mg/kg	25	68	<25	92.5	73
			TRH C6-C9	mg/kg	20	50	<20	80	62
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.0	7.7	10	90
			d8-toluene (Surrogate)	mg/kg	-	8.3	7.7	10	83
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.6	7.9	-	86
		VPH F	Benzene (F0)	mg/kg	0.1	3.6	<0.1	-	-
		Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	45	<25	62.5	71

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE237110.001	LB259754.028		TRH C6-C10	µg/L	50	900	<50	946.63	95
			TRH C6-C9	µg/L	40	790	<40	818.71	97
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/L	-	0.0	0.0	-	96
			d8-toluene (Surrogate)	mg/L	-	0.0	0.0	-	107
			Bromofluorobenzene (Surrogate)	mg/L	-	0.0	0.0	-	100
		VPH F	Benzene (F0)	µg/L	0.5		<0.5	-	-
		Bands	TRH C6-C10 minus BTEX (F1)	µg/L	50	580	<50	639.67	90

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The original result is the analyte concentration of the matrix spike. The Duplicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the

QC Sample	Sample Number	Parameter	Units	LOR

Samples analysed as received.

Solid samples expressed on a dry weight basis.

QC criteria are subject to internal review according to the SGS QA/QC plan and may be provided on request or alternatively can be found here: https://www.sgs.com.au/~/media/Local/Australia/Documents/Technical Documents/MP-AU-ENV-QU-022 QA QC Plan.pdf

*	NATA accreditation does not cover the performance of this service.
**	Indicative data, theoretical holding time exceeded.
***	Indicates that both * and ** apply.
-	Sample not analysed for this analyte.
IS	Insufficient sample for analysis.
LNR	Sample listed, but not received.
LOR	Limit of reporting.
QFH	QC result is above the upper tolerance.
QFL	QC result is below the lower tolerance.
①	At least 2 of 3 surrogates are within acceptance criteria.
②	RPD failed acceptance criteria due to sample heterogeneity.
③	Results less than 5 times LOR preclude acceptance criteria for RPD.
④	Recovery failed acceptance criteria due to matrix interference.
⑤	Recovery failed acceptance criteria due to the presence of significant concentration of analyte (i.e. the concentration of analyte exceeds the spike level).
⑥	LOR was raised due to sample matrix interference.
⑦	LOR was raised due to dilution of significantly high concentration of analyte in sample.
⑧	Reanalysis of sample in duplicate confirmed sample heterogeneity and inconsistency of results.
⑨	Recovery failed acceptance criteria due to sample heterogeneity.
⑩	LOR was raised due to high conductivity of the sample (required dilution).
†	Refer to relevant report comments for further information.

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CHAIN OF CUSTODY & ANALYSIS REQUEST

SGS Environmental Services
Unit 16, 33 Maddox Street
Alexandria NSW 2015
Telephone No: (02) 85940400
Facsimile No: (02) 85940499
Email: au.samplereceipt.sydney@sgs.com

Company Name:	Lanterra Consulting Pty Ltd	Project Name/No:	P22105 – Cardno, Polo Flat Rd, Cooma
Address:	Unit 13, 71 Leichhardt Street	Purchase Order No:	P22105
	Kingston, ACT, 2604	Results Required By:	**Standard TAT**
		Telephone:	0432 324 348
Contact Name:	Chris Gunton	Facsimile:	
		Email Results:	Chris@lanterra.com.au; jared@lanterra.com.au

Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	CEMENT SHEET	NO OF CONTAINERS	CL15 – TRH, BTEX, PAH, OCP/OPP, PCB, Phenols, 8 Metals	PFAS	pH, CEC, % Clay	HOLD	Combination 3
SW1	23/09/2022	1	X			4	X				
SS1	23/09/2022	2		X		1	X				
SS2	23/09/2022	3		X		1	X				
SS3	23/09/2022	4		X		1	X				
SS4	23/09/2022	5		X		1	X				
SS5	23/09/2022	6		X		1	X				
SS6	23/09/2022	7		X		2	X	X			
SS7	16/09/2022	8		X		2	X	X			
SS8	16/09/2022	9		X		2	X	X			
SS9	16/09/2022	10		X		2	X	X			

SGS EHS Sydney COC
SE237144

Relinquished By: C.Gunton	Date/Time: 23/09/2022 4pm	Received By:	Date/Time 27.9.22 10:20
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: (Yes) No	Temperature: Ambient / (Chilled) 14.2	Sample Cooler Sealed: (Yes) No	Laboratory Quotation No: 287189
	Comments:		

CHAIN OF CUSTODY & ANALYSIS REQUEST

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Alexandria NSW 2015
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	Kingston, ACT, 2604	Results Required By:	**Standard TAT**
		Telephone:	0432 324 348
Contact Name:	Chris Gunton	Facsimile:	
		Email Results:	Chris@lanterra.com.au; jared@lanterra.com.au

Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	CEMENT SHEET	NO OF CONTAINERS	CL15 – TRH, BTEX, PAH, OCP/OPP, PCB, Phenols, 8 Metals	PFAS	pH, CEC, % Clay	HOLD	Combination 3
SA1 0.0-0.1	16/09/2022	11		X		1	X				
SA1 0.5-0.6	16/09/2022			X		1					
SA2 0.0-0.1	16/09/2022	12		X		1	X				
SA2 0.5-0.6	16/09/2022			X		1					
SA3 0.0-0.1	16/09/2022			X		1					
SA3 0.5-0.6	16/09/2022	13		X		1	X				
SA4 0.0-0.1	16/09/2022	14		X		1	X				
SA4 0.5-0.6	16/09/2022			X		1					
SA5 0.0-0.1	16/09/2022	15		X		1	X				
SA5 0.5-0.6	16/09/2022			X		1					

Relinquished By: C.Gunton	Date/Time: 23/09/2022 4pm	Received By:	Date/Time 27/09/22 @ 10.20
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: (Yes)/ No	Temperature: Ambient / (Chilled)	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No: 287189
	Comments:		

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Company Name:	Lanterra Consulting Pty Ltd	Project Name/No:	P22105 – Cardno, Polo Flat Rd, Cooma
Address:	Unit 13, 71 Leichhardt Street	Purchase Order No:	P22105
	Kingston, ACT, 2604	Results Required By:	**Standard TAT**
		Telephone:	0432 324 348
Contact Name:	Chris Gunton	Facsimile:	
		Email Results:	Chris@lanterra.com.au; jared@lanterra.com.au

Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	CEMENT SHEET	NO OF CONTAINERS	CL15 – TRH, BTEX, PAH, OCP/OPP, PCB, Phenols, 8 Metals	PFAS	pH, CEC, % Clay	HOLD	Combination 3
SA6 0.0-0.1	16/09/2022			X		1					
SA6 0.5-0.6	16/09/2022	16		X		1	X				
SA7 0.0-0.1	16/09/2022	17		X		1	X				
SA7 0.5-0.6	16/09/2022			X		1					
SA8 0.0-0.1	16/09/2022	18		X		1	X				
SA8 0.5-0.6	16/09/2022			X		1					
SA8 1.0-1.1	16/09/2022			X		1					
SA9 0.0-0.1	16/09/2022			X		1					
SA9 0.5-0.6	16/09/2022	19		X		1	X				
SA9 1.0-1.1	16/09/2022			X		1					

Relinquished By: C.Gunton	Date/Time: 23/09/2022 4pm	Received By: S Subarey	Date/Time 27/09/22 @ 10:20
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: (Yes) No	Temperature: Ambient / (Chilled)	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No: 287189
	Comments:		

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	Kingston, ACT, 2604	Results Required By:	**Standard TAT**
		Telephone:	0432 324 348
Contact Name:	Chris Gunton	Facsimile:	
		Email Results:	Chris@lanterra.com.au; jared@lanterra.com.au

Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	CEMENT SHEET	NO OF CONTAINERS	CL15 – TRH, BTEX, PAH, OCP/OPP, PCB, Phenols, 8 Metals	PFAS	pH, CEC, % Clay	HOLD	Combination 3
SA10 0.0-0.1	16/09/2022	20		X		1	X				
SA10 0.5-0.6	16/09/2022			X		1					
TP1 0.0-0.1	15/09/2022	21		X		1	X				
TP1 0.5-0.6	15/09/2022			X		1					
TP2 0.0-0.1	15/09/2022	22		X		1	X				
TP2 0.5-0.6	15/09/2022			X		1					
TP3 0.0-0.1	15/09/2022	23		X		1	X				
TP3 0.5-0.6	15/09/2022			X		1					
TP4 0.0-0.1	15/09/2022	24		X		1	X				
TP4 0.5-0.6	15/09/2022			X		1					

Relinquished By: C.Gunton	Date/Time: 23/09/2022 4pm	Received By:	Date/Time 27/09/22 @10:20
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: (Yes) No	Temperature: Ambient / (Chilled)	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No: 287189
	Comments:		

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	Kingston, ACT, 2604	Results Required By:	**Standard TAT**
		Telephone:	0432 324 348
Contact Name:	Chris Gunton	Facsimile:	
		Email Results:	Chris@lanterra.com.au; jared@lanterra.com.au

Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	CEMENT SHEET	NO OF CONTAINERS	CL15 – TRH, BTEX, PAH, OCP/OPP, PCB, Phenols, 8 Metals	PFAS	pH, CEC, % Clay	HOLD	Combination 3
TP4 1.0-1.1	15/09/2022			X		1					
TP5 0.0-0.1	15/09/2022	25		X		1	X		X		
TP5 0.5-0.6	15/09/2022			X		1					
TP6 0.0-0.1	15/09/2022	26		X		1	X				
TP6 0.5-0.6	15/09/2022			X		1					
TP7 0.0-0.1	15/09/2022			X		1					
TP7 0.5-0.6	15/09/2022			X		1					
TP8 0.0-0.1	15/09/2022	27		X		1	X				
TP8 0.5-0.6	15/09/2022			X		1					
TP9 0.0-0.1	15/09/2022			X		1					

Relinquished By: C.Gunton	Date/Time: 23/09/2022 4pm	Received By:	Date/Time 27/09/22 @10:20
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: (Yes)/ No	Temperature: Ambient / (Chilled)	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No: 287189
	Comments:		

CHAIN OF CUSTODY & ANALYSIS REQUEST

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Address:	Unit 13, 71 Leichhardt Street	Purchase Order No:	P22105
	Kingston, ACT, 2604	Results Required By:	**Standard TAT**
		Telephone:	0432 324 348
Contact Name:	Chris Gunton	Facsimile:	
		Email Results:	Chris@lanterra.com.au; jared@lanterra.com.au

Client Sample ID	Date Sampled	**Lab Sample ID**	WATER	SOIL	CEMENT SHEET	NO OF CONTAINERS	**CL15** – TRH, BTEX, PAH, OCP/OPP, PCB, Phenols, 8 Metals	PFAS	pH, CEC, % Clay	HOLD	**Combination 3**										
TP9 0.5-0.6	15/09/2022			X		1															
TP10 0.0-0.1	15/09/2022	28		X		1	X														
TP10 0.5-0.6	15/09/2022			X		1															
TP11 0.0-0.1	15/09/2022	29		X		1	X														
TP11 0.5-0.6	15/09/2022			X		1															
TP12 0.0-0.1	15/09/2022	30		X		1	X														
TP12 0.5-0.6	15/09/2022			X		1															
TP13 0.0-0.1	15/09/2022	31		X		1	X														
TP13 0.5-0.6	15/09/2022			X		1															
TP13 1.0-1.1	15/09/2022			X		1															

Relinquished By: C.Gunton	Date/Time: 23/09/2022 4pm	Received By: B. Subaraj	Date/Time 27/09/22 @ 10:20
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: Yes/ No	Temperature: Ambient / Chilled	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No: 287189
	Comments:		

CHAIN OF CUSTODY & ANALYSIS REQUEST

SGS Environmental Services
Unit 16, 33 Maddox Street
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Telephone No: (02) 85940400
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Company Name:	Lanterra Consulting Pty Ltd	Project Name/No:	P22105 – Cardno, Polo Flat Rd, Cooma
Address:	Unit 13, 71 Leichhardt Street	Purchase Order No:	P22105
	Kingston, ACT, 2604	Results Required By:	**Standard TAT**
		Telephone:	0432 324 348
Contact Name:	Chris Gunton	Facsimile:	
		Email Results:	Chris@lanterra.com.au; jared@lanterra.com.au

Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	CEMENT SHEET	NO OF CONTAINERS	CL15 – TRH, BTEX, PAH, OCP/OPP, PCB, Phenols, 8 Metals	PFAS	pH, CEC, % Clay	HOLD	Combination 3											
TP14 0.0-0.1	15/09/2022	32		X		1	X															
TP14 0.5-0.6	15/09/2022			X		1																
TP15 0.0-0.1	15/09/2022	33		X		1	X															
TP15 0.5-0.6	15/09/2022			X		1																
TP16 0.0-0.1	15/09/2022	34		X		1	X															
TP16 0.5-0.6	15/09/2022			X		1																
TP17 0.0-0.1	15/09/2022	35		X		1	X															
TP17 0.5-0.6	15/09/2022			X		1																
TP18 0.0-0.1	15/09/2022	36		X		1	X															
TP18 0.5-0.6	15/09/2022			X		1																

Relinquished By: C.Gunton	Date/Time: 23/09/2022 4pm	Received By: B. Rubasey	Date/Time 27/09/22 @10.20
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: (Yes)/ No	Temperature: Ambient / (Chilled)	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No: 287189
	Comments:		

CHAIN OF CUSTODY & ANALYSIS REQUEST

SGS Environmental Services
Unit 16, 33 Maddox Street
Alexandria NSW 2015
Telephone No: (02) 85940400
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Company Name:	Lanterra Consulting Pty Ltd	Project Name/No:	P22105 – Cardno, Polo Flat Rd, Cooma
Address:	Unit 13, 71 Leichhardt Street	Purchase Order No:	P22105
	Kingston, ACT, 2604	Results Required By:	**Standard TAT**
		Telephone:	0432 324 348
Contact Name:	Chris Gunton	Facsimile:	
		Email Results:	Chris@lanterra.com.au; jared@lanterra.com.au

Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	CEMENT SHEET	NO OF CONTAINERS	CL15 – TRH, BTEX, PAH, OCP/OPP, PCB, Phenols, 8 Metals	PFAS	pH, CEC, % Clay	HOLD	Combination 3
TP19 0.0-0.1	15/09/2022	37		X		1	X				
TP19 0.5-0.6	15/09/2022			X		1					
TP20 0.0-0.1	15/09/2022	38		X		1	X				
TP20 0.5-0.6	15/09/2022			X		1					
TP21 0.0-0.1	15/09/2022	39		X		1	X				
TP21 0.5-0.6	15/09/2022			X		1					
TP22 0.0-0.1	15/09/2022	40		X		1	X				
TP22 0.5-0.6	15/09/2022			X		1					
TP23 0.0-0.1	15/09/2022	41		X		1	X				
TP23 0.5-0.6	15/09/2022			X		1					
TP24 0.0-0.1	15/09/2022	42		X		1	X				
TP24 0.5-0.6	15/09/2022			X		1					

Relinquished By: C.Gunton	Date/Time: 23/09/2022 4pm	Received By: S. Subaray	Date/Time 27/09/22 @ 10:20
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: (Yes)/ No	Temperature: Ambient / (Chilled)	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No: 287189
	Comments:		

SGS

CHAIN OF CUSTODY & ANALYSIS REQUEST

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Address:	Unit 13, 71 Leichhardt Street	Purchase Order No:	P22105
	Kingston, ACT, 2604	Results Required By:	**Standard TAT**
		Telephone:	0432 324 348
Contact Name:	Chris Gunton	Facsimile:	
		Email Results:	Chris@lanterra.com.au; jared@lanterra.com.au

Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	CEMENT SHEET	NO OF CONTAINERS	**CL15** – TRH, BTEX, PAH, OCP/OPP, PCB, Phenols, 8 Metals	PFAS	pH, CEC, % Clay	HOLD	**Combination 3**										
TP25 0.0-0.1	15/09/2022	43		X		1	X														
TP25 0.5-0.6	15/09/2022			X		1															
TP26 0.0-0.1	15/09/2022	44		X		1	X														
TP26 0.5-0.6	15/09/2022			X		1															
TP27 0.0-0.1	15/09/2022	45		X		1	X														
TP27 0.5-0.6	15/09/2022			X		1															
TP28 0.0-0.1	15/09/2022	46		X		1	X														
TP28 0.5-0.6	15/09/2022			X		1															
TP29 0.0-0.1	15/09/2022	47		X		1	X														
TP29 0.5-0.6	15/09/2022			X		1															

Relinquished By: C.Gunton	Date/Time: 23/09/2022 4pm	Received By: B. Subaraj	Date/Time 27/09/22 @ 10:20
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: (Yes)/ No	Temperature: Ambient / (Chilled)	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No: 287189
	Comments:		

CHAIN OF CUSTODY & ANALYSIS REQUEST

SGS Environmental Services
Unit 16, 33 Maddox Street
Alexandria NSW 2015
Telephone No: (02) 85940400
Facsimile No: (02) 85940499
Email: au.samplereceipt.sydney@sgs.com

Company Name:	Lanterra Consulting Pty Ltd	Project Name/No:	P22105 – Cardno, Polo Flat Rd, Cooma
Address:	Unit 13, 71 Leichhardt Street	Purchase Order No:	P22105
	Kingston, ACT, 2604	Results Required By:	**Standard TAT**
		Telephone:	0432 324 348
Contact Name:	Chris Gunton	Facsimile:	
		Email Results:	Chris@lanterra.com.au; jared@lanterra.com.au

Client Sample ID	Date Sampled	**Lab Sample ID**	WATER	SOIL	CEMENT SHEET	NO OF CONTAINERS	**CL15** – TRH, BTEX, PAH, OCP/OPP, PCB, Phenols, 8 Metals	PFAS	pH, CEC, % Clay	HOLD	**Combination 3**
TP30 0.0-0.1	15/09/2022	48		X		1	X				
TP30 0.5-0.6	15/09/2022			X		1					
TP31 0.0-0.1	15/09/2022	49		X		1	X		X		
TP31 0.5-0.6	15/09/2022			X		1					
TP32 0.0-0.1	15/09/2022	50		X		1	X				
TP32 0.5-0.6	15/09/2022			X		1					
TP33 0.0-0.1	15/09/2022	51		X		1	X				
TP33 0.5-0.6	15/09/2022			X		1					
TP34 0.0-0.1	15/09/2022	52		X		1	X				
TP34 0.5-0.6	15/09/2022			X		1					

Relinquished By: C.Gunton	Date/Time: 23/09/2022 4pm	Received By: S. Bubary	Date/Time 27/09/22 @10:20
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: (Yes) No	Temperature: Ambient / (Chilled)	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No: 287189
	Comments:		

CHAIN OF CUSTODY & ANALYSIS REQUEST

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Company Name:	Lanterra Consulting Pty Ltd	Project Name/No:	P22105 – Cardno, Polo Flat Rd, Cooma
Address:	Unit 13, 71 Leichhardt Street	Purchase Order No:	P22105
	Kingston, ACT, 2604	Results Required By:	**Standard TAT**
		Telephone:	0432 324 348
Contact Name:	Chris Gunton	Facsimile:	
		Email Results:	Chris@lanterra.com.au; jared@lanterra.com.au

Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	CEMENT SHEET	NO OF CONTAINERS	**CL15** – TRH, BTEX, PAH, OCP/OPP, PCB, Phenols, 8 Metals	PFAS	pH, CEC, % Clay	HOLD	**Combination 3**											
TP35 0.0-0.1	15/09/2022	53		X		1	X															
TP35 0.5-0.6	15/09/2022			X		1																
TP36 0.0-0.1	15/09/2022	54		X		1	X															
TP36 0.5-0.6	15/09/2022			X		1																
TP37 0.0-0.1	15/09/2022	55		X		1	X															
TP37 0.5-0.6	15/09/2022			X		1																
TP38 0.0-0.1	15/09/2022	56		X		1	X															
TP38 0.5-0.6	15/09/2022			X		1																
TP39 0.0-0.1	16/09/2022	57		X		1	X															
TP39 0.5-0.6	16/09/2022			X		1																

Relinquished By: C.Gunton	Date/Time: 23/09/2022 4pm	Received By: S. Suberry	Date/Time 27/09/22 @10:20
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: (Yes) No	Temperature: Ambient / (Chilled)	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No: 287189
	Comments:		

CHAIN OF CUSTODY & ANALYSIS REQUEST

SGS Environmental Services
Unit 16, 33 Maddox Street
Alexandria NSW 2015
Telephone No: (02) 85940400
Facsimile No: (02) 85940499
Email: au.samplereceipt.sydney@sgs.com

Company Name:	Lanterra Consulting Pty Ltd	Project Name/No:	P22105 – Cardno, Polo Flat Rd, Cooma
Address:	Unit 13, 71 Leichhardt Street	Purchase Order No:	P22105
	Kingston, ACT, 2604	Results Required By:	**Standard TAT**
		Telephone:	0432 324 348
Contact Name:	Chris Gunton	Facsimile:	
		Email Results:	Chris@lanterra.com.au; jared@lanterra.com.au

Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	CEMENT SHEET	NO OF CONTAINERS	**CL15** – TRH, BTEX, PAH, OCP/OPP, PCB, Phenols, 8 Metals	PFAS	pH, CEC, % Clay	CL10 – TRH, BTEX, PAH.9	**Combination 3**											
TP40 0.0-0.1	16/09/2022	58		X		1	X															
TP40 0.5-0.6	16/09/2022			X		1																
QC1	14/09/2022	59		X		1				X												
QC2	14/09/2022			X		1					X											**Please forward to Envirolab**
QC3	15/09/2022	60		X		1				X												
QC4	15/09/2022			X		1					X											**Please Forward to Envirolab**
QC5	15/09/2022	61		X		1				X												
QC6	15/09/2022			X		1					X											**Please Forward to Envirolab**
QC7	16/09/2022	62		X		1				X												
QC8	16/09/2022			X		1					X											**Please Forward to Envirolab**

Relinquished By: C.Gunton	Date/Time: 23/09/2022 4pm	Received By:	Date/Time 27/09/22 @ 10:20
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: Yes/ No	Temperature: Ambient / Chilled	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No: 287189
	Comments:		

SAMPLE RECEIPT ADVICE

SE237144

CLIENT DETAILS

Contact	Chris Gunton
Client	LANTERRA CONSULTING PTY LTD
Address	Unit 13, 71 Leichhardt Street Kingston ACT 2604
Telephone	0432 324 348
Facsimile	(Not specified)
Email	chris@lanterra.com.au
Project	**P22105-Cardno, Polo Flat Rd, Cooma**
Order Number	**P22105**
Samples	62

LABORATORY DETAILS

Manager	Huong Crawford
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
Samples Received	Tue 27/9/2022
Report Due	Wed 5/10/2022
SGS Reference	**SE237144**

SUBMISSION DETAILS

This is to confirm that 62 samples were received on Tuesday 27/9/2022. Results are expected to be ready by COB Wednesday 5/10/2022.
Please quote SGS reference SE237144 when making enquiries. Refer below for details relating to sample integrity upon receipt.

Samples clearly labelled	Yes	Complete documentation received	Yes
Sample container provider	SGS	Sample cooling method	Ice Bricks
Samples received in correct containers	Yes	Sample counts by matrix	61 Soil, 1 Water
Date documentation received	27/9/2022	Type of documentation received	COC
Samples received in good order	Yes	Samples received without headspace	Yes
Sample temperature upon receipt	14.2C	Sufficient sample for analysis	Yes
Turnaround time requested	Standard		

Unless otherwise instructed, water and bulk samples will be held for one month from date of report, and soil samples will be held for two months.

COMMENTS

PFAS subcontracted to SGS Melbourne, 10/585 Blackburn Road, Notting Hill, VIC, NATA Accreditation Numbe. 2562/14420.
% Clay subcontracted to SGS Cairns, 2/58 Comport St, Portsmith QLD 4870, NATA Accreditation Number: 2562, Site Number: 3146.
56 soil samples have been placed on hold as no tests have been assigned for them by the client. These samples will not be processed.

This document is issued by the Company under its General Conditions of Service accessible at www.sgs.com/en/Terms-and-Conditions.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

SAMPLE RECEIPT ADVICE

SE237144

CLIENT DETAILS

Client LANTERRA CONSULTING PTY LTD

Project P22105-Cardno, Polo Flat Rd, Cooma

SUMMARY OF ANALYSIS

No.	Sample ID	OC Pesticides in Soil	OP Pesticides in Soil	PAH (Polynuclear Aromatic Hydrocarbons) in Soil	PCBs in Soil	Speciated Phenols in Soil	TRH (Total Recoverable Hydrocarbons) in Soil	VOC's in Soil	Volatile Petroleum Hydrocarbons in Soil
002	SS1	30	14	26	11	18	10	11	7
003	SS2	30	14	26	11	18	10	11	7
004	SS3	30	14	26	11	18	10	11	7
005	SS4	30	14	26	11	18	10	11	7
006	SS5	30	14	26	11	18	10	11	7
007	SS6	30	14	26	11	18	10	11	7
008	SS7	30	14	26	11	18	10	11	7
009	SS8	30	14	26	11	18	10	11	7
010	SS9	30	14	26	11	18	10	11	7
011	SA1 0.0-0.1	30	14	26	11	18	10	11	7
012	SA2 0.0-0.1	30	14	26	11	18	10	11	7
013	SA3 0.5-0.6	30	14	26	11	18	10	11	7
014	SA4 0.0-0.1	30	14	26	11	18	10	11	7
015	SA5 0.0-0.1	30	14	26	11	18	10	11	7
016	SA6 0.5-0.6	30	14	26	11	18	10	11	7
017	SA7 0.0-0.1	30	14	26	11	18	10	11	7
018	SA8 0.0-0.1	30	14	26	11	18	10	11	7
019	SA9 0.5-0.6	30	14	26	11	18	10	11	7
020	SA10 0.0-0.1	30	14	26	11	18	10	11	7
021	TP1 0.0-0.1	30	14	26	11	18	10	11	7
022	TP2 0.0-0.2	30	14	26	11	18	10	11	7
023	TP3 0.0-0.1	30	14	26	11	18	10	11	7
024	TP4 0.0-0.1	30	14	26	11	18	10	11	7

CONTINUED OVERLEAF

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SAMPLE RECEIPT ADVICE

SE237144

CLIENT DETAILS

Client LANTERRA CONSULTING PTY LTD

Project P22105-Cardno, Polo Flat Rd, Cooma

SUMMARY OF ANALYSIS

No.	Sample ID	OC Pesticides in Soil	OP Pesticides in Soil	PAH (Polynuclear Aromatic Hydrocarbons) in Soil	PCBs in Soil	Speciated Phenols in Soil	TRH (Total Recoverable Hydrocarbons) in Soil	VOC's in Soil	Volatile Petroleum Hydrocarbons in Soil
025	TP5 0.0-0.1	30	14	26	11	18	10	11	7
026	TP6 0.0-0.1	30	14	26	11	18	10	11	7
027	TP8 0.0-0.1	30	14	26	11	18	10	11	7
028	TP10 0.0-0.1	30	14	26	11	18	10	11	7
029	TP11 0.0-0.1	30	14	26	11	18	10	11	7
030	TP12 0.0-0.1	30	14	26	11	18	10	11	7
031	TP13 0.0-0.1	30	14	26	11	18	10	11	7
032	TP14 0.0-0.1	30	14	26	11	18	10	11	7
033	TP15 0.0-0.1	30	14	26	11	18	10	11	7
034	TP16 0.0-0.1	30	14	26	11	18	10	11	7
035	TP17 0.0-0.1	30	14	26	11	18	10	11	7
036	TP18 0.0-0.1	30	14	26	11	18	10	11	7
037	TP19 0.0-0.1	30	14	26	11	18	10	11	7
038	TP20 0.0-0.1	30	14	26	11	18	10	11	7
039	TP21 0.0-0.1	30	14	26	11	18	10	11	7
040	TP22 0.0-0.1	30	14	26	11	18	10	11	7
041	TP23 0.0-0.1	30	14	26	11	18	10	11	7
042	TP24 0.0-0.1	30	14	26	11	18	10	11	7
043	TP25 0.0-0.1	30	14	26	11	18	10	11	7
044	TP26 0.0-0.1	30	14	26	11	18	10	11	7
045	TP27 0.0-0.1	30	14	26	11	18	10	11	7
046	TP28 0.0-0.1	30	14	26	11	18	10	11	7
047	TP29 0.0-0.1	30	14	26	11	18	10	11	7
048	TP30 0.0-0.1	30	14	26	11	18	10	11	7

CONTINUED OVERLEAF

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SAMPLE RECEIPT ADVICE

SE237144

CLIENT DETAILS

Client LANTERRA CONSULTING PTY LTD

Project P22105-Cardno, Polo Flat Rd, Cooma

SUMMARY OF ANALYSIS

No.	Sample ID	OC Pesticides in Soil	OP Pesticides in Soil	PAH (Polynuclear Aromatic Hydrocarbons) in Soil	PCBs in Soil	Speciated Phenols in Soil	TRH (Total Recoverable Hydrocarbons) in Soil	VOC's in Soil	Volatile Petroleum Hydrocarbons in Soil
049	TP31 0.0-0.1	30	14	26	11	18	10	11	7
050	TP32 0.0-0.1	30	14	26	11	18	10	11	7
051	TP33 0.0-0.1	30	14	26	11	18	10	11	7
052	TP34 0.0-0.1	30	14	26	11	18	10	11	7
053	TP35 0.0-0.1	30	14	26	11	18	10	11	7
054	TP36 0.0-0.1	30	14	26	11	18	10	11	7
055	TP37 0.0-0.1	30	14	26	11	18	10	11	7
056	TP38 0.0-0.1	30	14	26	11	18	10	11	7
057	TP39 0.0-0.1	30	14	26	11	18	10	11	7
058	TP40 0.0-0.1	30	14	26	11	18	10	11	7
059	QC1	-	-	26	-	-	10	11	7
060	QC3	-	-	26	-	-	10	11	7
061	QC5	-	-	26	-	-	10	11	7
062	QC7	-	-	26	-	-	10	11	7

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SAMPLE RECEIPT ADVICE

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CLIENT DETAILS

Client LANTERRA CONSULTING PTY LTD

Project P22105-Cardno, Polo Flat Rd, Cooma

SUMMARY OF ANALYSIS

No.	Sample ID	Mercury in Soil	Moisture Content	Total Recoverable Elements in Soil/Waste
002	SS1	1	1	7
003	SS2	1	1	7
004	SS3	1	1	7
005	SS4	1	1	7
006	SS5	1	1	7
007	SS6	1	1	7
008	SS7	1	1	7
009	SS8	1	1	7
010	SS9	1	1	7
011	SA1 0.0-0.1	1	1	7
012	SA2 0.0-0.1	1	1	7
013	SA3 0.5-0.6	1	1	7
014	SA4 0.0-0.1	1	1	7
015	SA5 0.0-0.1	1	1	7
016	SA6 0.5-0.6	1	1	7
017	SA7 0.0-0.1	1	1	7
018	SA8 0.0-0.1	1	1	7
019	SA9 0.5-0.6	1	1	7
020	SA10 0.0-0.1	1	1	7
021	TP1 0.0-0.1	1	1	7
022	TP2 0.0-0.2	1	1	7
023	TP3 0.0-0.1	1	1	7
024	TP4 0.0-0.1	1	1	7

CONTINUED OVERLEAF

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SAMPLE RECEIPT ADVICE

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CLIENT DETAILS

Client LANTERRA CONSULTING PTY LTD

Project P22105-Cardno, Polo Flat Rd, Cooma

SUMMARY OF ANALYSIS

No.	Sample ID	Exchangeable Cations and Cation Exchange Capacity	Mercury in Soil	Moisture Content	pH in soil (1:5)	Total Recoverable Elements in Soil/Waste
025	TP5 0.0-0.1	13	1	1	1	7
026	TP6 0.0-0.1	-	1	1	-	7
027	TP8 0.0-0.1	-	1	1	-	7
028	TP10 0.0-0.1	-	1	1	-	7
029	TP11 0.0-0.1	-	1	1	-	7
030	TP12 0.0-0.1	-	1	1	-	7
031	TP13 0.0-0.1	-	1	1	-	7
032	TP14 0.0-0.1	-	1	1	-	7
033	TP15 0.0-0.1	-	1	1	-	7
034	TP16 0.0-0.1	-	1	1	-	7
035	TP17 0.0-0.1	-	1	1	-	7
036	TP18 0.0-0.1	-	1	1	-	7
037	TP19 0.0-0.1	-	1	1	-	7
038	TP20 0.0-0.1	-	1	1	-	7
039	TP21 0.0-0.1	-	1	1	-	7
040	TP22 0.0-0.1	-	1	1	-	7
041	TP23 0.0-0.1	-	1	1	-	7
042	TP24 0.0-0.1	-	1	1	-	7
043	TP25 0.0-0.1	-	1	1	-	7
044	TP26 0.0-0.1	-	1	1	-	7
045	TP27 0.0-0.1	-	1	1	-	7
046	TP28 0.0-0.1	-	1	1	-	7
047	TP29 0.0-0.1	-	1	1	-	7
048	TP30 0.0-0.1	-	1	1	-	7

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CLIENT DETAILS

Client LANTERRA CONSULTING PTY LTD

Project P22105-Cardno, Polo Flat Rd, Cooma

SUMMARY OF ANALYSIS

No.	Sample ID	Exchangeable Cations and Cation Exchange Capacity	Mercury in Soil	Moisture Content	pH in soil (1:5)	Total Recoverable Elements in Soil/Waste
049	TP31 0.0-0.1	13	1	1	1	7
050	TP32 0.0-0.1	-	1	1	-	7
051	TP33 0.0-0.1	-	1	1	-	7
052	TP34 0.0-0.1	-	1	1	-	7
053	TP35 0.0-0.1	-	1	1	-	7
054	TP36 0.0-0.1	-	1	1	-	7
055	TP37 0.0-0.1	-	1	1	-	7
056	TP38 0.0-0.1	-	1	1	-	7
057	TP39 0.0-0.1	-	1	1	-	7
058	TP40 0.0-0.1	-	1	1	-	7
059	QC1	-	1	1	-	7
060	QC3	-	1	1	-	7
061	QC5	-	1	1	-	7
062	QC7	-	1	1	-	7

CONTINUED OVERLEAF

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CLIENT DETAILS

Client LANTERRA CONSULTING PTY LTD

Project P22105-Cardno, Polo Flat Rd, Cooma

SUMMARY OF ANALYSIS

No.	Sample ID	OC Pesticides in Water	PAH (Polynuclear Aromatic Hydrocarbons) in Water	Per- and Polyfluoroalkyl Substances (PFAS) in	TRH (Total Recoverable Hydrocarbons) in Water	VOCs in Water	Volatile Petroleum Hydrocarbons in Water
001	SW1	30	22	-	9	11	7
007	SS6	-	-	56	-	-	-
008	SS7	-	-	56	-	-	-
009	SS8	-	-	56	-	-	-
010	SS9	-	-	56	-	-	-

CONTINUED OVERLEAF

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CLIENT DETAILS

Client LANTERRA CONSULTING PTY LTD

Project P22105-Cardno, Polo Flat Rd, Cooma

SUMMARY OF ANALYSIS

No.	Sample ID	Particle sizing of soils <75µm by hydrometer	Particle sizing of soils by sieving
025	TP5 0.0-0.1	1	2

CONTINUED OVERLEAF

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CLIENT DETAILS

Client LANTERRA CONSULTING PTY LTD

Project P22105-Cardno, Polo Flat Rd, Cooma

SUMMARY OF ANALYSIS

No.	Sample ID	Particle sizing of soils <75µm by hydrometer	Particle sizing of soils by sieving
049	TP31 0.0-0.1	1	2

CONTINUED OVERLEAF

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CLIENT DETAILS

Client LANTERRA CONSULTING PTY LTD

Project P22105-Cardno, Polo Flat Rd, Cooma

SUMMARY OF ANALYSIS

No.	Sample ID	Mercury (dissolved) in Water	OP Pesticides in Water	PCBs in Water	Speciated Phenols in Water	Trace Metals (Dissolved) in Water by ICPMS
001	SW1	1	13	11	18	7

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Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

CERTIFICATE OF ANALYSIS 306705

Client Details

Client	Lanterra Consulting Pty Ltd
Attention	Chris Gunton
Address	Unit 4 / 19 Trenerry St, WESTON, ACT, 2611

Sample Details

Your Reference	**P22105- Cardno, Polo Flat Rd, Cooma**
Number of Samples	4 Soil
Date samples received	27/09/2022
Date completed instructions received	27/09/2022

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Report Details

Date results requested by	05/10/2022
Date of Issue	05/10/2022

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Accredited for compliance with ISO/IEC 17025 - Testing. **Tests not covered by NATA are denoted with ***

Results Approved By
Josh Williams, Organics and LC Supervisor
Loren Bardwell, Development Chemist

Authorised By

Nancy Zhang, Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil					
Our Reference		306705-1	306705-2	306705-3	306705-4
Your Reference	UNITS	QC2	QC4	QC6	QC8
Date Sampled		14/09/2022	15/09/2022	15/09/2022	16/09/2022
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	29/09/2022	29/09/2022	29/09/2022	29/09/2022
Date analysed	-	04/10/2022	04/10/2022	04/10/2022	04/10/2022
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	115	118	111	114

svTRH (C10-C40) in Soil					
Our Reference		306705-1	306705-2	306705-3	306705-4
Your Reference	UNITS	QC2	QC4	QC6	QC8
Date Sampled		14/09/2022	15/09/2022	15/09/2022	16/09/2022
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	29/09/2022	29/09/2022	29/09/2022	29/09/2022
Date analysed	-	03/10/2022	03/10/2022	03/10/2022	03/10/2022
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50
Surrogate o-Terphenyl	%	82	79	80	81

PAHs in Soil					
Our Reference		306705-1	306705-2	306705-3	306705-4
Your Reference	UNITS	QC2	QC4	QC6	QC8
Date Sampled		14/09/2022	15/09/2022	15/09/2022	16/09/2022
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	29/09/2022	29/09/2022	29/09/2022	29/09/2022
Date analysed	-	04/10/2022	04/10/2022	04/10/2022	04/10/2022
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	84	81	84	85

Acid Extractable metals in soil					
Our Reference		306705-1	306705-2	306705-3	306705-4
Your Reference	UNITS	QC2	QC4	QC6	QC8
Date Sampled		14/09/2022	15/09/2022	15/09/2022	16/09/2022
Type of sample		Soil	Soil	Soil	Soil
Date prepared	-	05/10/2022	05/10/2022	05/10/2022	05/10/2022
Date analysed	-	05/10/2022	05/10/2022	05/10/2022	05/10/2022
Arsenic	mg/kg	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	58	70	81	51
Copper	mg/kg	52	42	55	41
Lead	mg/kg	29	7	6	5
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	75	95	80	120
Zinc	mg/kg	110	39	46	41

Moisture					
Our Reference		306705-1	306705-2	306705-3	306705-4
Your Reference	UNITS	QC2	QC4	QC6	QC8
Date Sampled		14/09/2022	15/09/2022	15/09/2022	16/09/2022
Type of sample		Soil	Soil	Soil	Soil
Date prepared	-	28/09/2022	28/09/2022	28/09/2022	28/09/2022
Date analysed	-	29/09/2022	29/09/2022	29/09/2022	29/09/2022
Moisture	%	25	19	27	15

Method ID	Methodology Summary
Inorg-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
Metals-020	Determination of various metals by ICP-AES.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS and/or GC-MS/MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013. For soil results:- 1. 'EQ PQL'values are assuming all contributing PAHs reported as <PQL are actually at the PQL. This is the most conservative approach and can give false positive TEQs given that PAHs that contribute to the TEQ calculation may not be present. 2. 'EQ zero'values are assuming all contributing PAHs reported as <PQL are zero. This is the least conservative approach and is more susceptible to false negative TEQs when PAHs that contribute to the TEQ calculation are present but below PQL. 3. 'EQ half PQL'values are assuming all contributing PAHs reported as <PQL are half the stipulated PQL. Hence a mid-point between the most and least conservative approaches above. Note, the Total +ve PAHs PQL is reflective of the lowest individual PQL and is therefore "Total +ve PAHs" is simply a sum of the positive individual PAHs.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.

Method ID	Methodology Summary
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-7	[NT]
Date extracted	-			29/09/2022	[NT]	[NT]	[NT]	[NT]	29/09/2022	[NT]
Date analysed	-			04/10/2022	[NT]	[NT]	[NT]	[NT]	04/10/2022	[NT]
TRH C_6 - C_9	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	114	[NT]
TRH C_6 - C_{10}	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	114	[NT]
Benzene	mg/kg	0.2	Org-023	<0.2	[NT]	[NT]	[NT]	[NT]	121	[NT]
Toluene	mg/kg	0.5	Org-023	<0.5	[NT]	[NT]	[NT]	[NT]	116	[NT]
Ethylbenzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	109	[NT]
m+p-xylene	mg/kg	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	113	[NT]
o-Xylene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	115	[NT]
Naphthalene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	122	[NT]	[NT]	[NT]	[NT]	123	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-14	[NT]
Date extracted	-			28/09/2022	[NT]	[NT]	[NT]	[NT]	28/09/2022	[NT]
Date analysed	-			02/10/2022	[NT]	[NT]	[NT]	[NT]	02/10/2022	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	110	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	110	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	100	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	110	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	110	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	100	[NT]
Surrogate o-Terphenyl	%		Org-020	80	[NT]	[NT]	[NT]	[NT]	85	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-7	[NT]
Date extracted	-			29/09/2022	[NT]	[NT]	[NT]	[NT]	29/09/2022	[NT]
Date analysed	-			04/10/2022	[NT]	[NT]	[NT]	[NT]	04/10/2022	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	78	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	73	[NT]
Fluorene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	88	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	104	[NT]
Anthracene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	90	[NT]
Pyrene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	81	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	67	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	92	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	88	[NT]	[NT]	[NT]	[NT]	88	[NT]

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-7	[NT]
Date prepared	-			05/10/2022	[NT]	[NT]	[NT]	[NT]	05/10/2022	[NT]
Date analysed	-			05/10/2022	[NT]	[NT]	[NT]	[NT]	05/10/2022	[NT]
Arsenic	mg/kg	4	Metals-020	<4	[NT]	[NT]	[NT]	[NT]	102	[NT]
Cadmium	mg/kg	0.4	Metals-020	<0.4	[NT]	[NT]	[NT]	[NT]	99	[NT]
Chromium	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	100	[NT]
Copper	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	101	[NT]
Lead	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	100	[NT]
Mercury	mg/kg	0.1	Metals-021	<0.1	[NT]	[NT]	[NT]	[NT]	109	[NT]
Nickel	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	100	[NT]
Zinc	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	99	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

CHAIN OF CUSTODY & ANALYSIS REQUEST

SGS Environmental Services
Unit 16, 33 Maddox Street
Alexandria NSW 2015
Telephone No: (02) 85940400
Facsimile No: (02) 85940499
Email: au.samplereceipt.sydney@sgs.com

Company Name:	Lanterra Consulting Pty Ltd	Project Name/No:	P22105 – Cardno, Polo Flat Rd, Cooma
Address:	Unit 13, 71 Leichhardt Street	Purchase Order No:	P22105
	Kingston, ACT, 2604	Results Required By:	**Standard TAT**
		Telephone:	0432 324 348
Contact Name:	Chris Gunton	Facsimile:	
		Email Results:	Chris@lanterra.com.au; jared@lanterra.com.au

	Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	CEMENT SHEET	NO OF CONTAINERS	**CL15** – TRH, BTEX, PAH, OCP/OPP, PCB, Phenols, 8 Metals	PFAS	pH, CEC, % Clay	CL10 – TRH, BTEX, PAH.9	**Combination 3**										
	TP40 0.0-0.1	16/09/2022			X		1	X														
	TP40 0.5-0.6	16/09/2022			X		1															
	QC1	14/09/2022			X		1				X											
(1)	QC2	14/09/2022			X		1					X										**Please forward to Envirolab**
	QC3	15/09/2022			X		1				X											
(2)	QC4	15/09/2022			X		1					X										**Please Forward to Envirolab**
	QC5	15/09/2022			X		1				X											
(3)	QC6	15/09/2022			X		1					X										**Please Forward to Envirolab**
	QC7	16/09/2022			X		1				X											
(4)	QC8	16/09/2022			X		1					X										**Please Forward to Envirolab**

ENVIROLAB GROUP
Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 306705.
Date Received: 27/09/22
Time Received: 1730.
Received By: VC.
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

Relinquished By: C.Gunton	Date/Time: 23/09/2022 4pm	Received By: Victoria Chan	Date/Time 27/09/22 @ 1730.
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: (Yes)/No	Temperature: Ambient / (Chilled)	Sample Cooler Sealed: (Yes)/ No	Laboratory Quotation No: 287189
	Comments:		

Appendix D

LOTSEARCH

LOTSEARCH ENVIRO PROFESSIONAL

Date: 24 Jun 2022 09:16:22

Reference: LS033562 EP

Address: Monaro Highway, Cooma, NSW 2630

Disclaimer:
The purpose of this report is to provide an overview of some of the site history, environmental risk and planning information available, affecting an individual address or geographical area in which the property is located. It is not a substitute for an on-site inspection or review of other available reports and records. It is not intended to be, and should not be taken to be, a rating or assessment of the desirability or market value of the property or its features.
You should obtain independent advice before you make any decision based on the information within the report.
The detailed terms applicable to use of this report are set out at the end of this report.

Dataset Listing

Datasets contained within this report, detailing their source and data currency:

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	Dataset Buffer (m)	No. Features On-site	No. Features within 100m	No. Features within Buffer
Cadastre Boundaries	NSW Department of Customer Service - Spatial Services	17/06/2022	17/06/2022	Quarterly	-	-	-	-
Topographic Data	NSW Department of Customer Service - Spatial Services	25/06/2019	25/06/2019	Annually	-	-	-	-
List of NSW contaminated sites notified to EPA	Environment Protection Authority	25/05/2022	06/05/2022	Monthly	1000m	0	0	0
Contaminated Land Records of Notice	Environment Protection Authority	14/06/2022	14/06/2022	Monthly	1000m	0	0	0
Former Gasworks	Environment Protection Authority	03/06/2022	14/07/2021	Quarterly	1000m	0	0	0
National Waste Management Facilities Database	Geoscience Australia	26/05/2022	07/03/2017	Annually	1000m	0	0	0
National Liquid Fuel Facilities	Geoscience Australia	23/06/2022	13/07/2012	Annually	1000m	0	0	1
EPA PFAS Investigation Program	Environment Protection Authority	06/06/2022	14/07/2021	Monthly	2000m	0	0	0
Defence PFAS Investigation & Management Program - Investigation Sites	Department of Defence	15/06/2022	15/06/2022	Monthly	2000m	0	0	0
Defence PFAS Investigation & Management Program - Management Sites	Department of Defence	15/06/2022	15/06/2022	Monthly	2000m	0	0	0
Airservices Australia National PFAS Management Program	Airservices Australia	15/06/2022	15/06/2022	Monthly	2000m	0	0	0
Defence 3 Year Regional Contamination Investigation Program	Department of Defence	06/06/2022	06/06/2022	Quarterly	2000m	0	0	0
EPA Other Sites with Contamination Issues	Environment Protection Authority	16/02/2022	13/12/2018	Annually	1000m	0	0	0
Licensed Activities under the POEO Act 1997	Environment Protection Authority	14/06/2022	14/06/2022	Monthly	1000m	0	1	4
Delicensed POEO Activities still regulated by the EPA	Environment Protection Authority	14/06/2022	14/06/2022	Monthly	1000m	0	0	0
Former POEO Licensed Activities now revoked or surrendered	Environment Protection Authority	14/06/2022	14/06/2022	Monthly	1000m	3	4	4
UBD Business Directories (Premise & Intersection Matches)	Hardie Grant			Not required	150m	0	2	3
UBD Business Directories (Road & Area Matches)	Hardie Grant			Not required	150m	-	64	66
UBD Business Directory Dry Cleaners & Motor Garages/Service Stations (Premise & Intersection Matches)	Hardie Grant			Not required	500m	0	0	0
UBD Business Directory Dry Cleaners & Motor Garages/Service Stations (Road & Area Matches)	Hardie Grant			Not required	500m	-	4	4
Points of Interest	NSW Department of Customer Service - Spatial Services	19/08/2021	19/08/2021	Quarterly	1000m	0	0	34
Tanks (Areas)	NSW Department of Customer Service - Spatial Services	19/08/2021	19/08/2021	Quarterly	1000m	0	0	0
Tanks (Points)	NSW Department of Customer Service - Spatial Services	19/08/2021	19/08/2021	Quarterly	1000m	0	0	0
Major Easements	NSW Department of Customer Service - Spatial Services	19/08/2021	19/08/2021	Quarterly	1000m	2	4	11
State Forest	Forestry Corporation of NSW	25/02/2021	14/02/2021	Annually	1000m	0	0	0
NSW National Parks and Wildlife Service Reserves	NSW Office of Environment & Heritage	10/02/2022	31/12/2021	Annually	1000m	0	0	0
Hydrogeology Map of Australia	Commonwealth of Australia (Geoscience Australia)	08/10/2014	17/03/2000	Annually	1000m	1	1	1
Temporary Water Restriction (Botany Sands Groundwater Source) Order 2018	NSW Department of Planning, Industry and Environment	28/03/2022	23/02/2018	Annually	1000m	0	0	0
National Groundwater Information System (NGIS) Boreholes	Bureau of Meteorology; Water NSW	24/01/2022	24/01/2022	Annually	2000m	0	0	61

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	Dataset Buffer (m)	No. Features On-site	No. Features within 100m	No. Features within Buffer
NSW Seamless Geology Single Layer: Rock Units	Department of Regional NSW	17/02/2022	01/05/2021	Annually	1000m	1	1	5
NSW Seamless Geology – Single Layer: Trendlines	Department of Regional NSW	17/02/2022	01/05/2021	Annually	1000m	0	0	0
NSW Seamless Geology – Single Layer: Geological Boundaries and Faults	Department of Regional NSW	17/02/2022	01/05/2021	Annually	1000m	0	0	0
Naturally Occurring Asbestos Potential	NSW Dept. of Industry, Resources & Energy	04/12/2015	24/09/2015	Unknown	1000m	0	0	0
Atlas of Australian Soils	Australian Bureau of Agriculture and Resource Economics and Sciences (ABARES)	19/05/2017	17/02/2011	As required	1000m	1	1	2
Soil Landscapes of Central and Eastern NSW	NSW Department of Planning, Industry and Environment	14/10/2020	27/07/2020	Annually	1000m	1	2	3
Environmental Planning Instrument Acid Sulfate Soils	NSW Department of Planning, Industry and Environment	26/05/2022	06/05/2022	Monthly	500m	0	-	-
Atlas of Australian Acid Sulfate Soils	CSIRO	19/01/2017	21/02/2013	As required	1000m	1	1	1
Dryland Salinity - National Assessment	National Land and Water Resources Audit	18/07/2014	12/05/2013	None planned	1000m	0	0	0
Mining Subsidence Districts	NSW Department of Customer Service - Subsidence Advisory NSW	19/08/2021	05/08/2021	Quarterly	1000m	0	0	0
Current Mining Titles	NSW Department of Industry	25/05/2022	25/05/2022	Monthly	1000m	1	1	1
Mining Title Applications	NSW Department of Industry	25/05/2022	25/05/2022	Monthly	1000m	0	0	0
Historic Mining Titles	NSW Department of Industry	25/05/2022	25/05/2022	Monthly	1000m	11	14	14
Environmental Planning Instrument SEPP State Significant Precincts	NSW Department of Planning, Industry and Environment	15/11/2021	07/12/2018	Monthly	1000m	0	0	0
Environmental Planning Instrument Land Zoning	NSW Department of Planning, Industry and Environment	15/11/2021	05/11/2021	Monthly	1000m	1	7	40
Commonwealth Heritage List	Australian Government Department of the Agriculture, Water and the Environment	03/06/2022	13/04/2022	Annually	1000m	0	0	0
National Heritage List	Australian Government Department of the Agriculture, Water and the Environment	03/06/2022	13/04/2022	Annually	1000m	0	0	0
State Heritage Register - Curtilages	NSW Department of Planning, Industry and Environment	19/08/2021	25/06/2021	Quarterly	1000m	0	0	0
Environmental Planning Instrument Local Heritage	NSW Department of Planning, Industry and Environment	26/05/2022	01/04/2022	Monthly	1000m	0	0	2
Bush Fire Prone Land	NSW Rural Fire Service	20/06/2022	08/12/2021	Weekly	1000m	2	2	2
Vegetation of Southern Forests	NSW Office of Environment & Heritage	09/12/2014	10/10/2011	Unknown	1000m	1	1	1
Ramsar Wetlands of Australia	Australian Government Department of Agriculture, Water and the Environment	28/03/2022	19/03/2020	Annually	1000m	0	0	0
Groundwater Dependent Ecosystems	Bureau of Meteorology	14/08/2017	15/05/2017	Annually	1000m	0	0	0
Inflow Dependent Ecosystems Likelihood	Bureau of Meteorology	14/08/2017	15/05/2017	Unknown	1000m	0	0	0
NSW BioNet Species Sightings	NSW Office of Environment & Heritage	20/06/2022	20/06/2022	Weekly	10000m	-	-	-

Site Diagram

Monaro Highway, Cooma, NSW 2630



Legend

- Site Boundary
- Internal Parcel Boundaries

Total Area: 262501m²

Total Perimeter: 2.28km

Scale: 0 25 50 100 150 200 250 Meters

Data Source Aerial Imagery: © Aerometrex Pty Ltd

Disclaimers:

Measurements are approximate only and may have been simplified or smaller lengths removed for readability.

Parcels that make up a small percentage of the total site area have not been labelled for increased legibility.

Coordinate System: GDA 1994 MGA Zone 56

Date: 24 June 2022

Contaminated Land

Monaro Highway, Cooma, NSW 2630

List of NSW contaminated sites notified to EPA

Records from the NSW EPA Contaminated Land list within the dataset buffer:

Map Id	Site	Address	Suburb	Activity	Management Class	Status	Location Confidence	Dist	Direction
N/A	No records in buffer								

The values within the EPA site management class in the table above, are given more detailed explanations in the table below:

EPA site management class	Explanation
Contamination being managed via the planning process (EP&A Act)	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation. The contamination of this site is managed by the consent authority under the Environmental Planning and Assessment Act 1979 (EP&A Act) planning approval process, with EPA involvement as necessary to ensure significant contamination is adequately addressed. The consent authority is typically a local council or the Department of Planning and Environment.
Contamination currently regulated under CLM Act	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation under the Contaminated Land Management Act 1997 (CLM Act). Management of the contamination is regulated by the EPA under the CLM Act. Regulatory notices are available on the EPA's Contaminated Land Public Record of Notices.
Contamination currently regulated under POEO Act	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation. Management of the contamination is regulated under the Protection of the Environment Operations Act 1997 (POEO Act). The EPA's regulatory actions under the POEO Act are available on the POEO public register.
Contamination formerly regulated under the CLM Act	The EPA has determined that the contamination is no longer significant enough to warrant regulation under the Contaminated Land Management Act 1997 (CLM Act). The contamination was addressed under the CLM Act.
Contamination formerly regulated under the POEO Act	The EPA has determined that the contamination is no longer significant enough to warrant regulation. The contamination was addressed under the Protection of the Environment Operations Act 1997 (POEO Act).
Contamination was addressed via the planning process (EP&A Act)	The EPA has determined that the contamination is no longer significant enough to warrant regulation. The contamination was addressed by the appropriate consent authority via the planning process under the Environmental Planning and Assessment Act 1979 (EP&A Act).
Ongoing maintenance required to manage residual contamination (CLM Act)	The EPA has determined that ongoing maintenance, under the Contaminated Land Management Act 1997 (CLM Act), is required to manage the residual contamination. Regulatory notices under the CLM Act are available on the EPA's Contaminated Land Public Record of Notices.
Regulation being finalised	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation under the Contaminated Land Management Act 1997. A regulatory approach is being finalised.
Regulation under the CLM Act not required	The EPA has completed an assessment of the contamination and decided that regulation under the Contaminated Land Management Act 1997 is not required.
Under assessment	The contamination is being assessed by the EPA to determine whether regulation is required. The EPA may require further information to complete the assessment. For example, the completion of management actions regulated under the planning process or Protection of the Environment Operations Act 1997. Alternatively, the EPA may require information via a notice issued under s77 of the Contaminated Land Management Act 1997 or issue a Preliminary Investigation Order.

NSW EPA Contaminated Land List Data Source: Environment Protection Authority

© State of New South Wales through the Environment Protection Authority

Contaminated Land

Monaro Highway, Cooma, NSW 2630

Contaminated Land: Records of Notice

Record of Notices within the dataset buffer:

Map Id	Name	Address	Suburb	Notices	Area No	Location Confidence	Distance	Direction
N/A	No records in buffer							

Contaminated Land Records of Notice Data Source: Environment Protection Authority
© State of New South Wales through the Environment Protection Authority
Terms of use and disclaimer for Contaminated Land: Record of Notices, please visit
http://www.epa.nsw.gov.au/clm/clmdisclaimer.htm

Former Gasworks

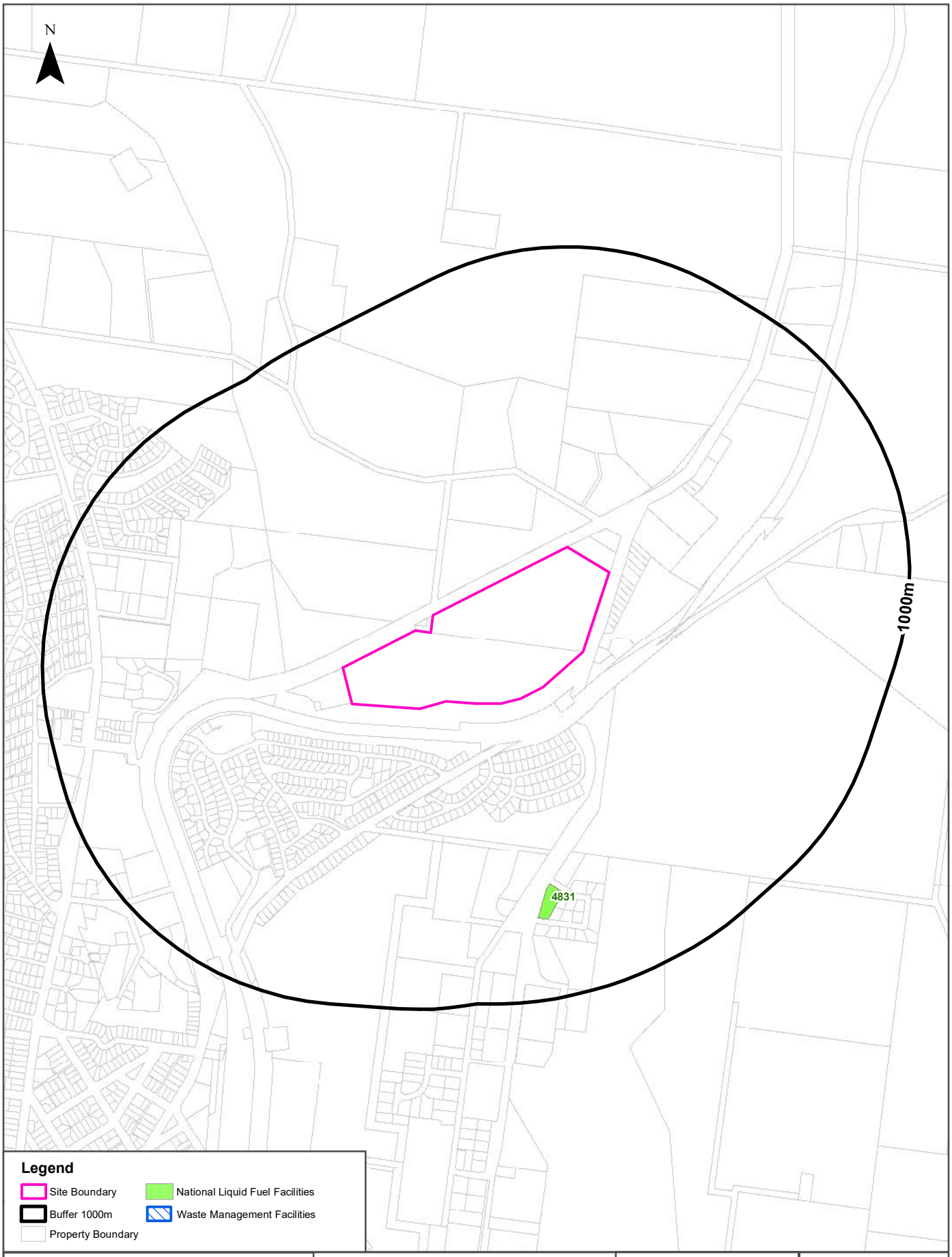
Former Gasworks within the dataset buffer:

Map Id	Location	Council	Further Info	Location Confidence	Distance	Direction
N/A	No records in buffer					

Former Gasworks Data Source: Environment Protection Authority
© State of New South Wales through the Environment Protection Authority

Waste Management & Liquid Fuel Facilities

Monaro Highway, Cooma, NSW 2630



Waste Management & Liquid Fuel Facilities

Monaro Highway, Cooma, NSW 2630

National Waste Management Site Database

Sites on the National Waste Management Site Database within the dataset buffer:

Site Id	Owner	Name	Address	Suburb	Class	Landfill	Reprocess	Transfer	Comments	Loc Conf	Dist	Direction
N/A	No records in buffer											

Waste Management Facilities Data Source: Geoscience Australia
Creative Commons 3.0 © Commonwealth of Australia http://creativecommons.org/licenses/by/3.0/au/deed.en

National Liquid Fuel Facilities

National Liquid Fuel Facilties within the dataset buffer:

Map Id	Owner	Name	Address	Suburb	Class	Operational Status	Operator	Revision Date	Loc Conf	Dist	Direction
4831	Caltex	Caltex Cooma	28 Polo Flat Road	Polo Flat	Petrol Station	Operational		25/07/2011	Premise Match	622m	South

National Liquid Fuel Facilities Data Source: Geoscience Australia
Creative Commons 3.0 © Commonwealth of Australia http://creativecommons.org/licenses/by/3.0/au/deed.en

PFAS Investigation & Management Programs

Monaro Highway, Cooma, NSW 2630

EPA PFAS Investigation Program

Sites that are part of the EPA PFAS investigation program, within the dataset buffer:

Map ID	Site	Address	Loc Conf	Dist	Dir
N/A	No records in buffer				

EPA PFAS Investigation Program: Environment Protection Authority
© State of New South Wales through the Environment Protection Authority

Defence PFAS Investigation Program

Sites being investigated by the Department of Defence for PFAS contamination within the dataset buffer:

Map ID	Base Name	Address	Loc Conf	Dist	Dir
N/A	No records in buffer				

Defence PFAS Investigation Program Data Custodian: Department of Defence, Australian Government

Defence PFAS Management Program

Sites being managed by the Department of Defence for PFAS contamination within the dataset buffer:

Map ID	Base Name	Address	Loc Conf	Dist	Dir
N/A	No records in buffer				

Defence PFAS Management Program Data Custodian: Department of Defence, Australian Government

Airservices Australia National PFAS Management Program

Sites being investigated or managed by Airservices Australia for PFAS contamination within the dataset buffer:

Map ID	Site Name	Impacts	Loc Conf	Dist	Dir
N/A	No records in buffer				

Airservices Australia National PFAS Management Program Data Custodian: Airservices Australia

Defence Sites

Monaro Highway, Cooma, NSW 2630

Defence 3 Year Regional Contamination Investigation Program

Sites which have been assessed as part of the Defence 3 Year Regional Contamination Investigation Program within the dataset buffer:

Property ID	Base Name	Address	Known Contamination	Loc Conf	Dist	Dir
N/A	No records in buffer					

Defence 3 Year Regional Contamination Investigation Program, Data Custodian: Department of Defence, Australian Government

EPA Other Sites with Contamination Issues

Monaro Highway, Cooma, NSW 2630

EPA Other Sites with Contamination Issues

This dataset contains other sites identified on the EPA website as having contamination issues. This dataset currently includes:

- James Hardie asbestos manufacturing and waste disposal sites
- Radiological investigation sites in Hunter's Hill
- Pasminco Lead Abatement Strategy Area

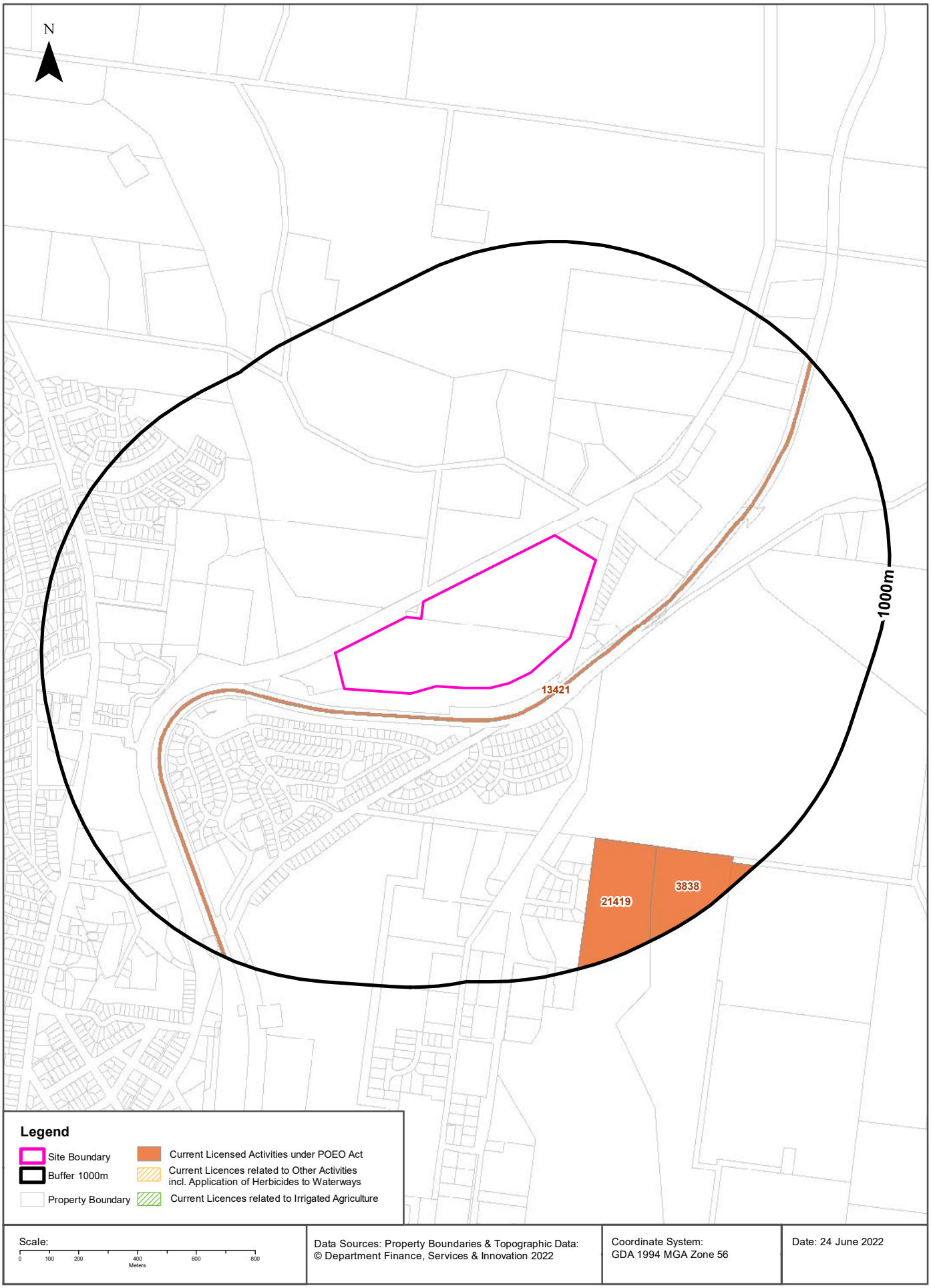
Sites within the dataset buffer:

Site Id	Site Name	Site Address	Dataset	Comments	Location Confidence	Distance	Direction
N/A	No records in buffer						

EPA Other Sites with Contamination Issues: Environment Protection Authority
© State of New South Wales through the Environment Protection Authority

Current EPA Licensed Activities

Monaro Highway, Cooma, NSW 2630



EPA Activities

Monaro Highway, Cooma, NSW 2630

Licensed Activities under the POEO Act 1997

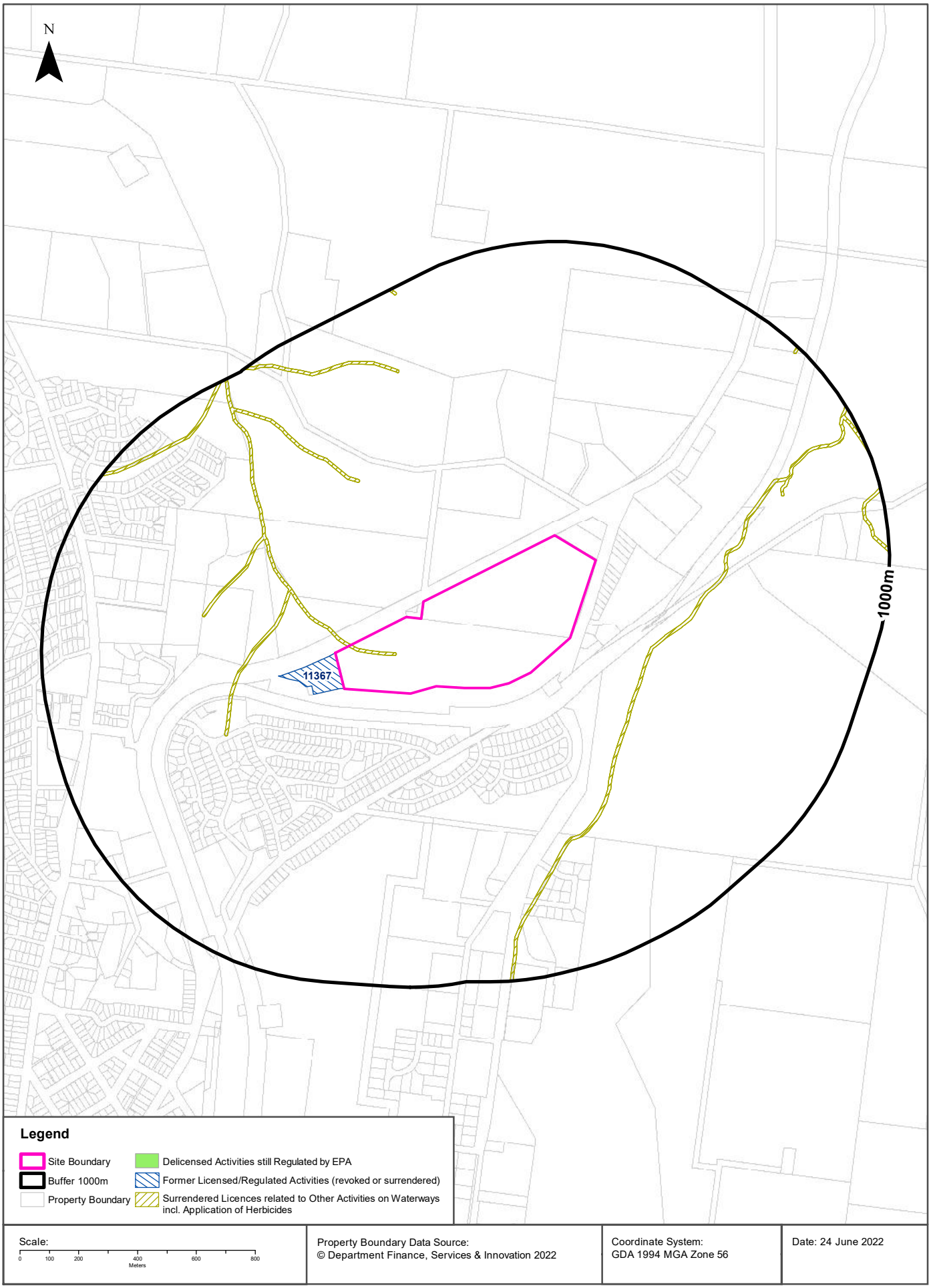
Licensed activities under the Protection of the Environment Operations Act 1997, within the dataset buffer:

EPL	Organisation	Name	Address	Suburb	Activity	Loc Conf	Distance	Direction
13421	UGL REGIONAL LINX PTY LTD		COUNTRY REGIONAL NETWORK, ORANGE, NSW 2800		Railway systems activities	Network of Features	74m	South
21419	WEBUILD S.P.A.		91 POLO FLAT ROAD, POLO FLAT, NSW 2630		Concrete works	Premise Match	602m	South East
3838	MONBEEF PTY LIMITED	MONBEEF MEAT PROCESSING PLANT AND PREMISES	CARLAMINDA ROAD	COOMA	Rendering or fat extraction	Premise Match	730m	South East
3838	MONBEEF PTY LIMITED	MONBEEF MEAT PROCESSING PLANT AND PREMISES	CARLAMINDA ROAD	COOMA	Slaughtering or processing animals	Premise Match	730m	South East

POEO Licence Data Source: Environment Protection Authority
© State of New South Wales through the Environment Protection Authority

Delicensed & Former Licensed EPA Activities

Monaro Highway, Cooma, NSW 2630



EPA Activities

Monaro Highway, Cooma, NSW 2630

Delicensed Activities still regulated by the EPA

Delicensed activities still regulated by the EPA, within the dataset buffer:

Licence No	Organisation	Name	Address	Suburb	Activity	Loc Conf	Distance	Direction
N/A	No records in buffer							

Delicensed Activities Data Source: Environment Protection Authority
© State of New South Wales through the Environment Protection Authority

Former Licensed Activities under the POEO Act 1997, now revoked or surrendered

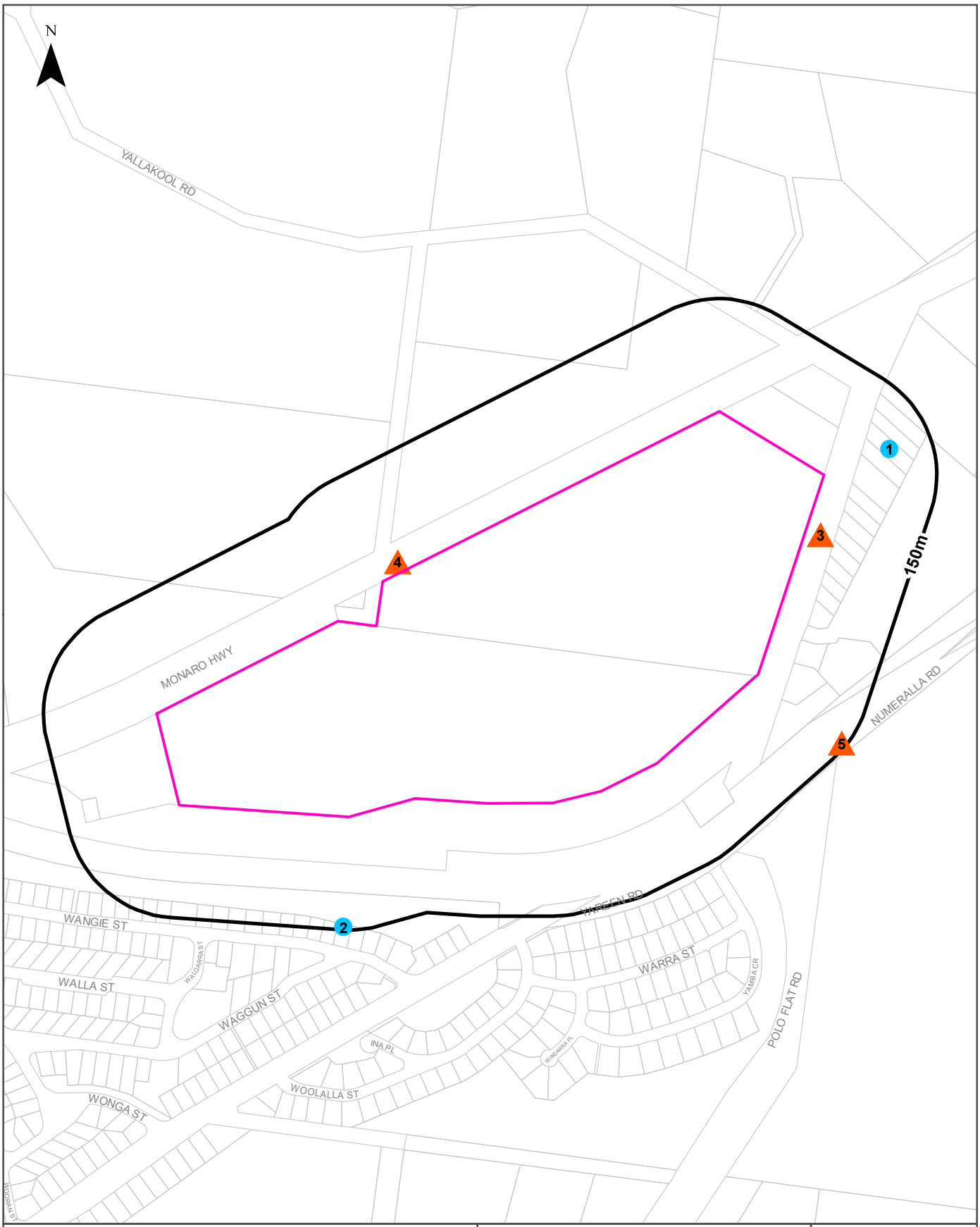
Former Licensed activities under the Protection of the Environment Operations Act 1997, now revoked or surrendered, within the dataset buffer:

Licence No	Organisation	Location	Status	Issued Date	Activity	Loc Conf	Distance	Direction
4653	LUHRMANN ENVIRONMENT MANAGEMENT PTY LTD	WATERWAYS THROUGHOUT NSW	Surrendered	06/09/2000	Other Activities / Non Scheduled Activity - Application of Herbicides	Network of Features	0m	On-site
4838	Robert Orchard	Various Waterways throughout New South Wales - SYDNEY NSW 2000	Surrendered	07/09/2000	Other Activities / Non Scheduled Activity - Application of Herbicides	Network of Features	0m	On-site
6630	SYDNEY WEED & PEST MANAGEMENT PTY LTD	WATERWAYS THROUGHOUT NSW - PROSPECT, NSW, 2148	Surrendered	09/11/2000	Other Activities / Non Scheduled Activity - Application of Herbicides	Network of Features	0m	On-site
11367	TRANSGRID	Monaro Highway, COOMA, NSW 2630	Surrendered	30/03/2001	Hazardous, Industrial or Group A Waste Generation or Storage	Premise Match	0m	West

Former Licensed Activities Data Source: Environment Protection Authority
© State of New South Wales through the Environment Protection Authority

Historical Business Directories

Monaro Highway, Cooma, NSW 2630



Legend

- Site Boundary
- Buffer 150m
- Property Boundary
- Business directory records mapped to a specific premise
- Business directory records mapped to a road intersection
- Business directory records mapped to a road corridor
- Business directory records mapped to a general area

Scale: 0 90 180 270 360 Meters

Coordinate System: GDA 1994 MGA Zone 56

Date: 24 June 2022

Data Sources: Reproduced with permission of UBD and Hardie Grant Media Pty Ltd DD 01/08/2018

Historical Business Directories

Monaro Highway, Cooma, NSW 2630

Business Directory Records 1950-1991
Premise or Road Intersection Matches

Universal Business Directory records from years 1991, 1982, 1970, 1961 & 1950, mapped to a premise or road intersection within the dataset buffer:

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
1	MOTELS.	Cooma Gateway Holiday Motel., 13 Polo Flat Rd., Cooma 2630	146071	1991	Premise Match	74m	North East
	MOTELS.	Cooma Gateway Holiday Motel., 13 Polo Flat Road., Cooma 2630	146066	1991	Premise Match	74m	North East
2	PEST CONTROL.	Southern Tablelands Pest Control., 10 Wangle St., Cooma 2630	146177	1991	Premise Match	141m	South West

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Business Directory Records 1950-1991
Road or Area Matches

Universal Business Directory records from years 1991, 1982, 1970, 1961 & 1950, mapped to a road or an area, within the dataset buffer. Records are mapped to the road when a building number is not supplied, cannot be found, or the road has been renumbered since the directory was published:

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
3	CARPET &/OR CARTAGE CONTRACTORS	Burchall A. J. Transport., Polo Flat Rd., Cooma 2630	145826	1991	Road Match	0m
	MOTOR WRECKERS.	Cooma Auto Wreckers., Polo Flat Rd Cooma 2630	146153	1991	Road Match	0m
	MOTOR WRECKERS.	Cooma Auto Wreckers., Polo Flat Rd., Cooma 2630	146154	1991	Road Match	0m
	FURNITURE RETAIL-HOUSEHOLD.	Cooma Copper-N-Pine Shop The., Shop 5 Ortner Trading Centre Polo Flat Rd., Cooma 2630	145926	1991	Road Match	0m
	GIFT SHOPS.	Cooma Copper-N-Pine Shop The., Shop 5 Ortner Trading Centre Polo Flat Rd., Cooma 2630	145946	1991	Road Match	0m
	CRANE &/OR TRAVEL TOWER PROPRIETORS &/OR HIRERS.	Cooma Cranes., Polo Flat Rd., Cooma 2630	145856	1991	Road Match	0m
	CONCRETE-READY MIXED.	Cooma Sand & Concrete Pty. Ltd., Polo Flat Rd., Cooma 2630	145855	1991	Road Match	0m
	IMPORTERS.	High Performance Imports Pty. Ltd., Polo Flat Rd., Cooma 2630	146028	1991	Road Match	0m
	AGRICULTURAL SUPPLIES.	Monaro Ag Supplies., Polo Flat Rd., Cooma 2630	145717	1991	Road Match	0m
	BEARINGS &/OR BUSH MFRS. &/OR IMPS. &/OR DISTS.	Monaro Ag Supplies., Polo Flat Rd., Cooma 2630	145762	1991	Road Match	0m
	HYDRAULIC HOSE MFRS. &/OR DISTS.	Monaro Ag Supplies., Polo Flat Rd., Cooma 2630	146024	1991	Road Match	0m
	LAWN MOWER SALES &/OR SERVICE.	Monaro Ag Supplies., Polo Flat Rd., Cooma 2630	146044	1991	Road Match	0m
	MOTOR CLUTCH SPECIALISTS.	Monaro Ag Supplies., Polo Flat Rd., Cooma 2630	146101	1991	Road Match	0m
	MACHINERY RECONDITIONERS.	Monaro Track & Machinery Repairs., Polo Flat Rd., Cooma 2630	146055	1991	Road Match	0m
	TRUCK &/OR BUS REPAIRS.	Monaro Truck & Machinery Repairs., Polo Flat Rd., Cooma 2630	146328	1991	Road Match	0m
	ENGINEERS GENERAL.	Monaro Welding Pty. Ltd., Polo Flat Rd., Cooma 2630	145898	1991	Road Match	0m
	ENGINEERS-FABRICATING.	Monaro Welding Pty. Ltd., Polo Flat Rd., Cooma 2630	145896	1991	Road Match	0m
	ENGINEERS-STRUCTURAL.	Monaro Welding Pty. Ltd., Polo Flat Rd., Cooma 2630	145900	1991	Road Match	0m
	STEEL FABRICATORS	Monaro Welding Pty. Ltd., Polo Flat Rd., Cooma 2630	146277	1991	Road Match	0m
	WELDERS-ALUMINIUM.	Monaro Welding Pty. Ltd., Polo Flat Rd., Cooma 2630	146375	1991	Road Match	0m
	WOOL BROKERS	NZT., Polo Flat Rd, Cooma 2630	146383	1991	Road Match	0m
	JOINERY MANUFACTURERS	Coomalock Homes Pty. Ltd., Polo Flat Rd., Cooma 2630	154735	1982	Road Match	0m
	BRICK MFRS. &/OR DISTS	Monaro Bricks Ltd., Polo Flat Rd., Cooma 2630	154510	1982	Road Match	0m
4	CAMPING GROUNDS &/OR CARAVAN PARKS.	Gateway Caravan Park., Canberra Hway., Cooma 2630	145815	1991	Road Match	0m
	MOTOR CAR DEALERS - NEW &/OR USED.	M. & T. Motors., Monaro Hway., Cooma 2630	146095	1991	Road Match	0m
	MOTOR WRECKERS.	M. & T. Motors., Monaro Hway., Cooma 2630	146156	1991	Road Match	0m
	GOVERNMENT DEPARTMENTS.	Snowy Mountains Council., Monaro Hway., Cooma 2630	145966	1991	Road Match	0m
	ENGINEERS-CONSULTING.	Snowy Mountains Engineering Corporation., Monaro Hway., Cooma 2630	145894	1991	Road Match	0m

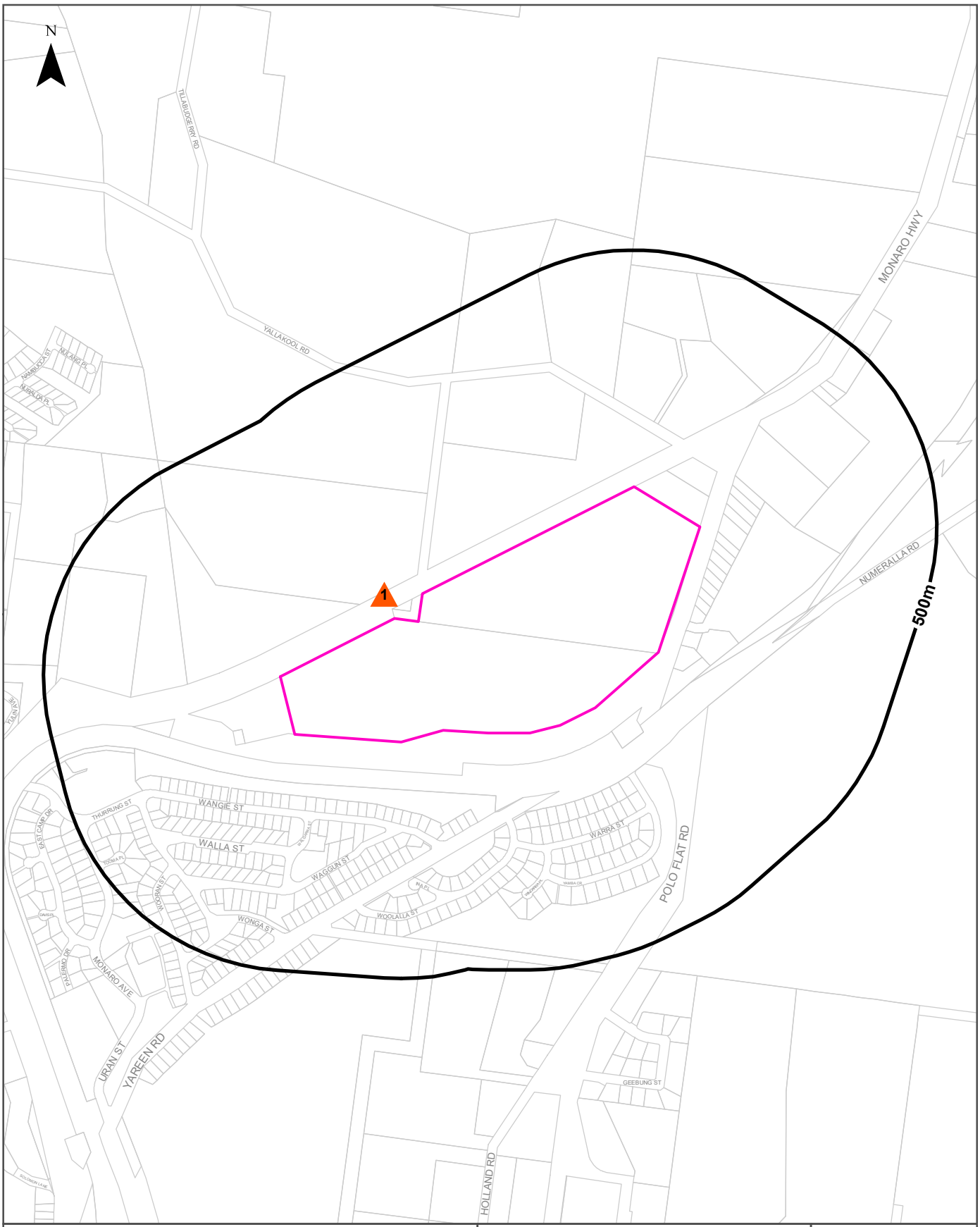
Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
4	GOVERNMENT DEPARTMENTS.	Snowy Mountains Engineering Corporation., Monaro Hway., Cooma 2630	145967	1991	Road Match	0m
	GOVERNMENT DEPARTMENTS.	Snowy Mountains Hydro-Electric Authority., Monaro Hway., Cooma 2630	145968	1991	Road Match	0m
	LANDSCAPE GARDENERS	Field, D., 'Jenasta', Monaro Highway., Cooma 2630	154739	1982	Road Match	0m
	CAMPING GROUNDS &/OR CARAVAN PARKS	Gateway Caravan Park, Canberra Highway., Cooma 2630	154556	1982	Road Match	0m
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS	Golden Fleece Monaro, Monaro Highway., Cooma 2630	154820	1982	Road Match	0m
	NEWSPAPER PUBLISHERS &/OR PRINTERS	Hayden Offset Printers, Monaro Highway., Cooma 2630	154856	1982	Road Match	0m
	MOTELS	Honeymoon, Monaro Highway., Cooma 2630	154777	1982	Road Match	0m
	EARTH MOVING EQUIPMENT MFRS. &/OR IMPS. &/OR DISTS	I.S.A.S (N.S.W.) Ltd., Sydney Rd., Cooma 2630	154603	1982	Road Match	0m
	TRACTOR IMPS. &/ OR MFRS. &/OR DISTS	I.S.A.S. (N.S.W.) Ltd., Sydney Rd., Cooma 2630	154966	1982	Road Match	0m
	GRAVEL, SAND &/OR SOIL SUPPLIES	Revelant. G. & P., Nimmitabel Rd., Cooma 2630	154681	1982	Road Match	0m
	GOVERNMENT DEPARTMENTS	Snowy Mountains Council. Monaro Highway., Cooma 2630	154676	1982	Road Match	0m
	ENGINEERS - CONSULTING	Snowy Mountains Engineering Corporation, Monaro Highway., Cooma 2630	154628	1982	Road Match	0m
	GOVERNMENT DEPARTMENTS	Snowy Mountains Engineering Corporation. Monaro Highway., Cooma 2630	154677	1982	Road Match	0m
	GOVERNMENT DEPARTMENTS	Snowy Mountains Hydro-Electric Authority. Monaro Highway., North Cooma 2630	154678	1982	Road Match	0m
	MOTELS	Barbara Motel, Canberra Rd. Cooma 2630	585423	1970	Road Match	0m
	MOTOR ELECTRICIANS	East Cooma Service Station, Canberra Rd. Cooma 2630	585459	1970	Road Match	0m
	MOTOR GARAGES & ENGINEERS	East Cooma Service Station, Canberra Rd. Cooma 2630	585470	1970	Road Match	0m
	EARTH MOVING EQUIPMENT MFRS. &/OR DISTRIBUTORS	Isas (N.S.W.) Ltd., Sydney Rd. Cooma 2630	585175	1970	Road Match	0m
	TRACTOR IMPORTERS &/OR MANUFACTURERS &/OR DISTRIBUTORS	Isas (N.S.W.) Ltd., Sydney Rd. Cooma 2630	585677	1970	Road Match	0m
	MOTELS	Kirby Motel, Canberra Rd. Cooma 2630	585429	1970	Road Match	0m
	RESTAURANT	Kirby Motel, Canberra Rd. Cooma 2630	585568	1970	Road Match	0m
	MOTELS	Motel Kirby, Canberra Rd. Cooma 2630	585431	1970	Road Match	0m
	TIMBER MERCHANTS & SAWM/LLERS	Rayner Bros. Pty. Ltd., Canberra Rd. Cooma 2630	585662	1970	Road Match	0m
	REAL ESTATE AGENTS-VALUERS	House, I., Cnr. Mann & Donnison Sts., Cooma	196023	1961	Road Match	0m
	EARTH MOVING EQUIPMENT MAINTENANCE & REPAIRERS	Isa's (N.S.W.) Ltd., Sydney Rd,. Cooma	195552	1961	Road Match	0m
	HOLIDAY ACCOMMODATION	Kirbys Motel, Canberra Rd., Cooma	195729	1961	Road Match	0m
	MOTELS	Kirby's Motel, Canberra Rd., Cooma	195845	1961	Road Match	0m
	MACHINERY MERCHANTS & IMPORTERS	Moore Road Machinery Pty. Ltd., Monaro Highway,. Cooma	195804	1961	Road Match	0m
	MOTOR ACCESSORIES & SPARE PARTS DEALERS	Mo-Ro Service Station, Canberra Rd., Cooma	195857	1961	Road Match	0m
	MOTOR CAR & TRUCK DEALERS-NEW & USED	Mo-Ro Service Station, Canberra Rd., Cooma	195875	1961	Road Match	0m
	MOTOR GARAGES & ENGINEERS	Mo-Ro Service Station, Canberra Rd., Cooma	195897	1961	Road Match	0m
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Mo-Ro Service Station, Canberra Rd., Cooma	195937	1961	Road Match	0m
	TYRE & TUBE DEALERS	Mo-Ro Service Station, Canberra Rd., Cooma	196157	1961	Road Match	0m

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
4	TIMBER MERCHANTS & SAWMILLERS	Raynor Bros., Canberra Rd., Cooma	196132	1961	Road Match	0m
	AGRICULTURAL MACHINERY DEALERS	Waugh and Josephson, Canberra Rd., Cooma	195345	1961	Road Match	0m
	EARTH MOVING EQUIPMENT MAINTENANCE & REPAIRERS	Waugh and Josephson, Canberra Rd., Cooma	195554	1961	Road Match	0m
5	CONCRETE BLOCK & BRICK MANUFACTURERS	Schueck, K., Numeralla Rd., Cooma	366700	1961	Road Match	135m
	MONUMENTAL MASONS	Schueck, K., Numeralla Rd., Cooma	195839	1961	Road Match	135m

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Dry Cleaners, Motor Garages & Service Stations

Monaro Highway, Cooma, NSW 2630



Legend

- Site Boundary
- Buffer 500m
- Property Boundary
- Business directory records mapped to a specific premise
- Business directory records mapped to a road intersection
- Business directory records mapped to a road corridor
- Business directory records mapped to a general area

Scale: 0 150 300 450 600 Meters

Coordinate System: GDA 1994 MGA Zone 56

Date: 24 June 2022

Data Sources: Reproduced with permission of UBD and Hardie Grant Media Pty Ltd DD 01/08/2018

Historical Business Directories

Monaro Highway, Cooma, NSW 2630

Dry Cleaners, Motor Garages & Service Stations Premise or Road Intersection Matches

Dry Cleaners, Motor Garages & Service Stations from UBD Business Directories, mapped to a premise or road intersection, within the dataset buffer.

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
N/A	No records in buffer						

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Dry Cleaners, Motor Garages & Service Stations Road or Area Matches

Dry Cleaners, Motor Garages & Service Stations from UBD Business Directories, mapped to a road or an area, within the dataset buffer. Records are mapped to the road when a building number is not supplied, cannot be found, or the road has been renumbered since the directory was published.

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
1	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS	Golden Fleece Monaro, Monaro Highway., Cooma 2630	154820	1982	Road Match	0m
	MOTOR GARAGES & ENGINEERS	East Cooma Service Station, Canberra Rd. Cooma 2630	585470	1970	Road Match	0m
	MOTOR GARAGES & ENGINEERS	Mo-Ro Service Station, Canberra Rd., Cooma	195897	1961	Road Match	0m
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Mo-Ro Service Station, Canberra Rd., Cooma	195937	1961	Road Match	0m

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Aerial Imagery 2020

Monaro Highway, Cooma, NSW 2630



Aerial Imagery 2015

Monaro Highway, Cooma, NSW 2630



Scale: 0 80 160 240 320 Meters	Data Source Aerial Imagery: © 2022 Google Inc, used with permission. Google and the Google logo are registered trademarks of Google Inc.	Coordinate System: GDA 1994 MGA Zone 56	Date: 22 June 2022

Aerial Imagery 2011

Monaro Highway, Cooma, NSW 2630



Scale:
0 80 160 240 320
Meters

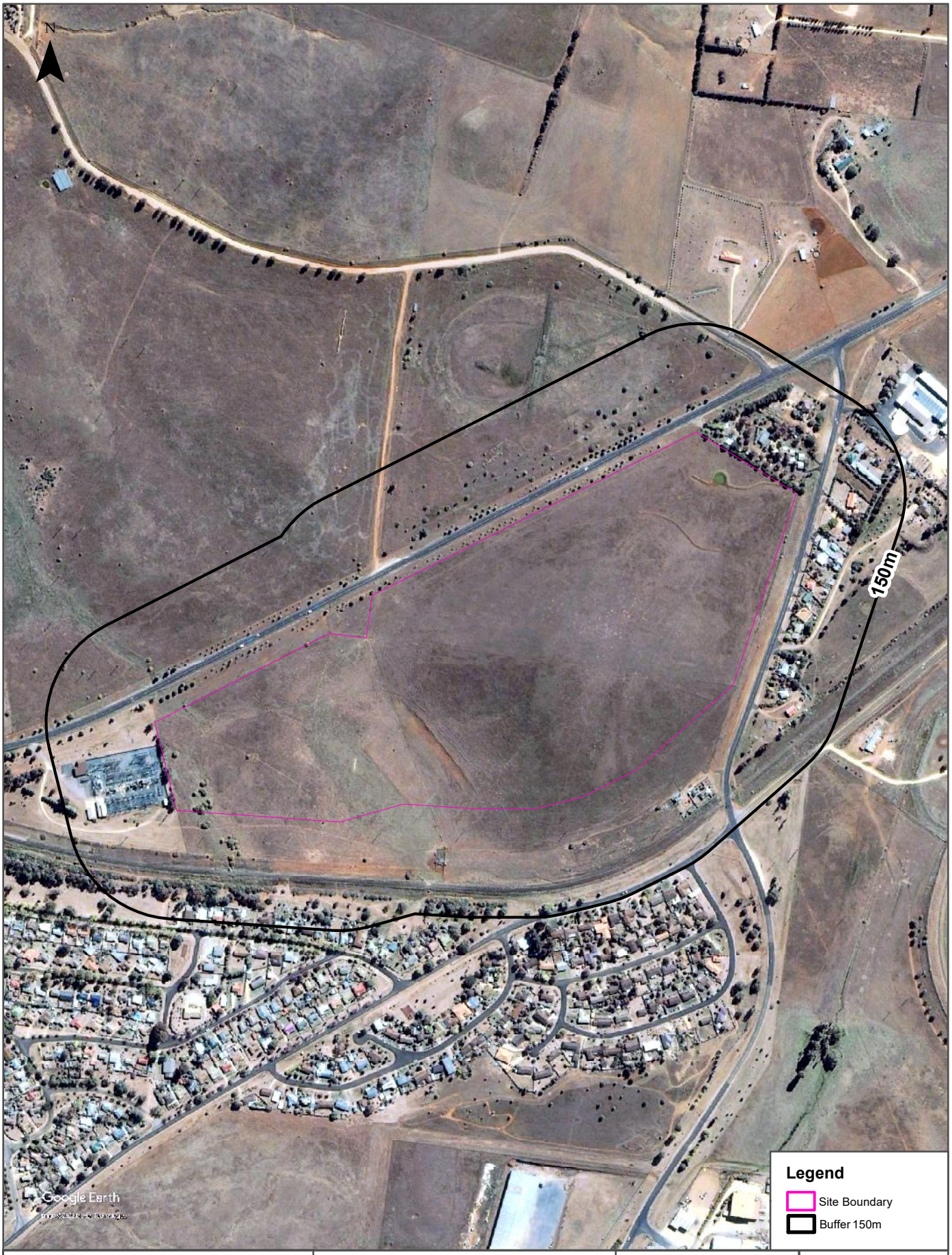
Data Source Aerial Imagery: © 2022 Google Inc, used with permission. Google and the Google logo are registered trademarks of Google Inc.

Coordinate System:
GDA 1994 MGA Zone 56

Date: 22 June 2022

Aerial Imagery 2002

Monaro Highway, Cooma, NSW 2630



Scale:
0 80 160 240 320
Meters

Data Source Aerial Imagery: © 2022 Google Inc, used with permission. Google and the Google logo are registered trademarks of Google Inc.

Coordinate System:
GDA 1994 MGA Zone 56

Date: 22 June 2022

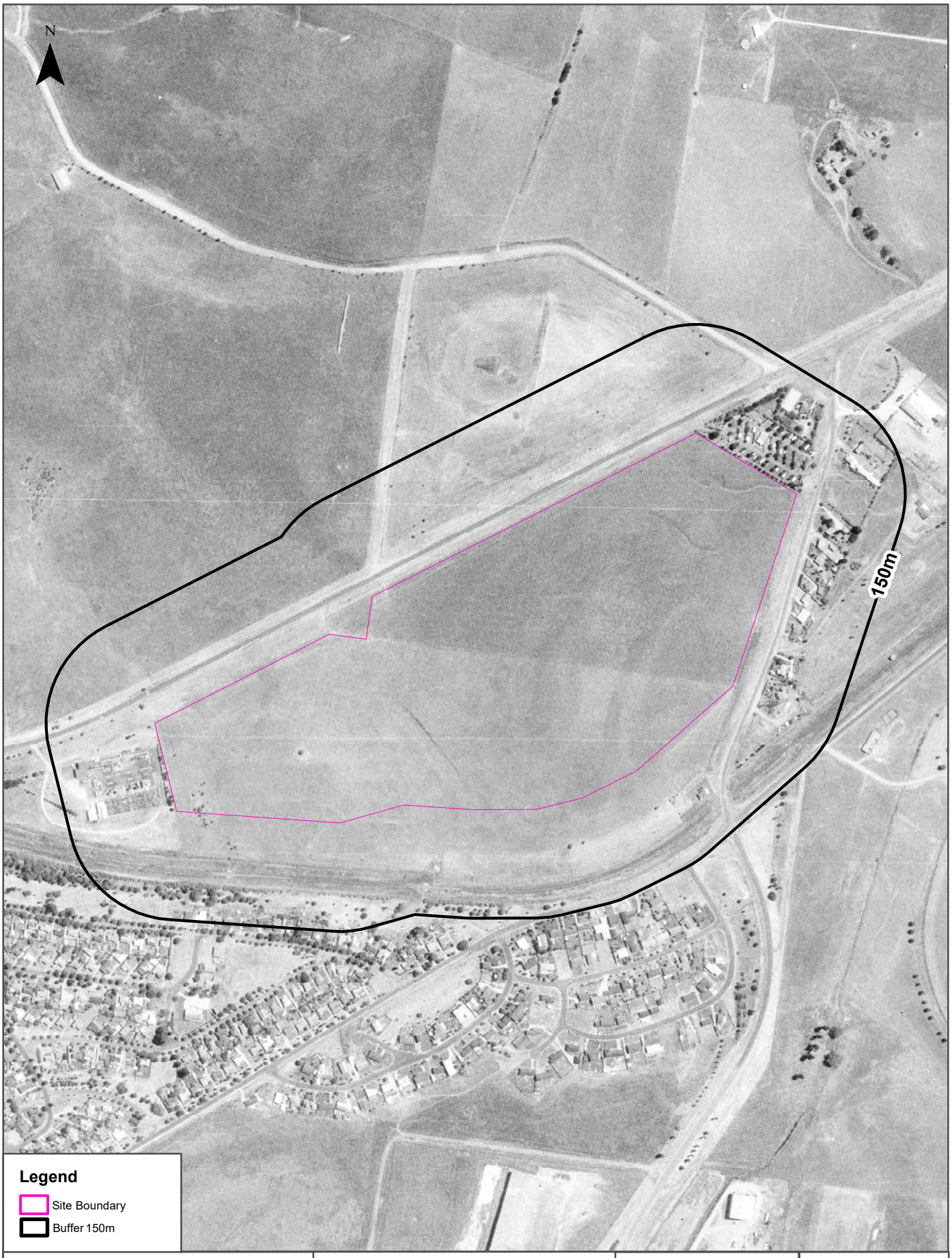
Aerial Imagery 1998

Monaro Highway, Cooma, NSW 2630



Aerial Imagery 1985

Monaro Highway, Cooma, NSW 2630



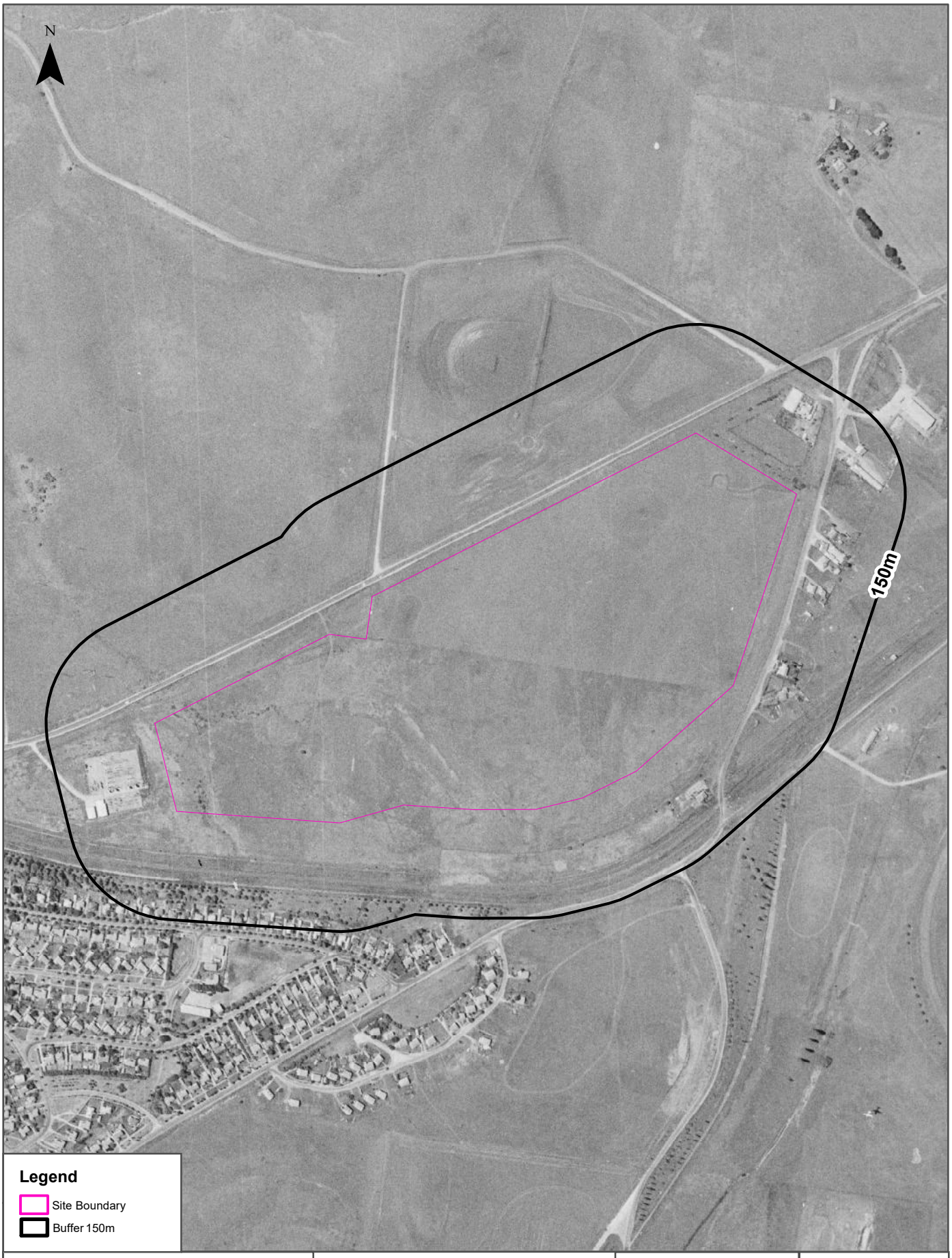
Aerial Imagery 1977

Monaro Highway, Cooma, NSW 2630



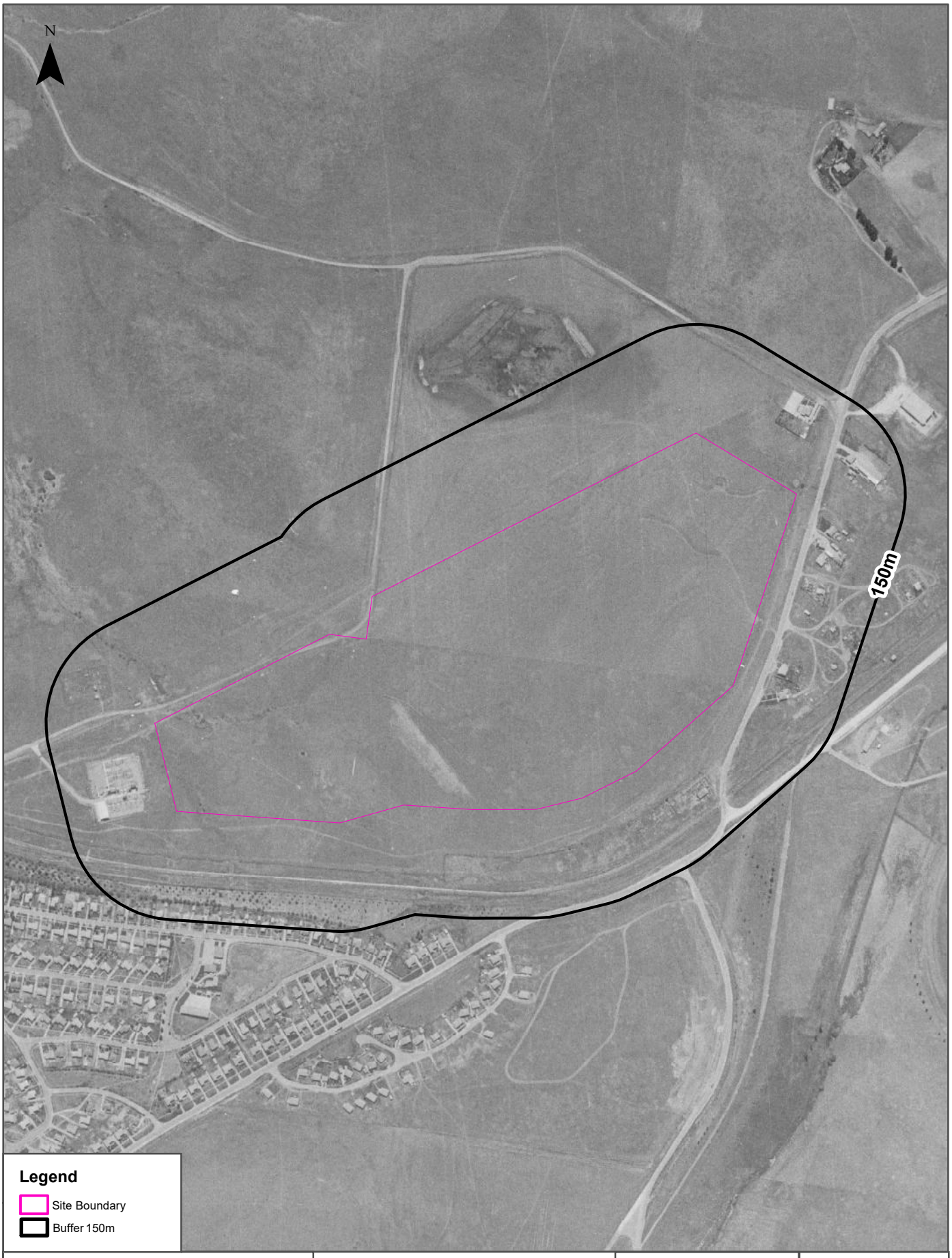
Aerial Imagery 1967

Monaro Highway, Cooma, NSW 2630



Aerial Imagery 1960

Monaro Highway, Cooma, NSW 2630



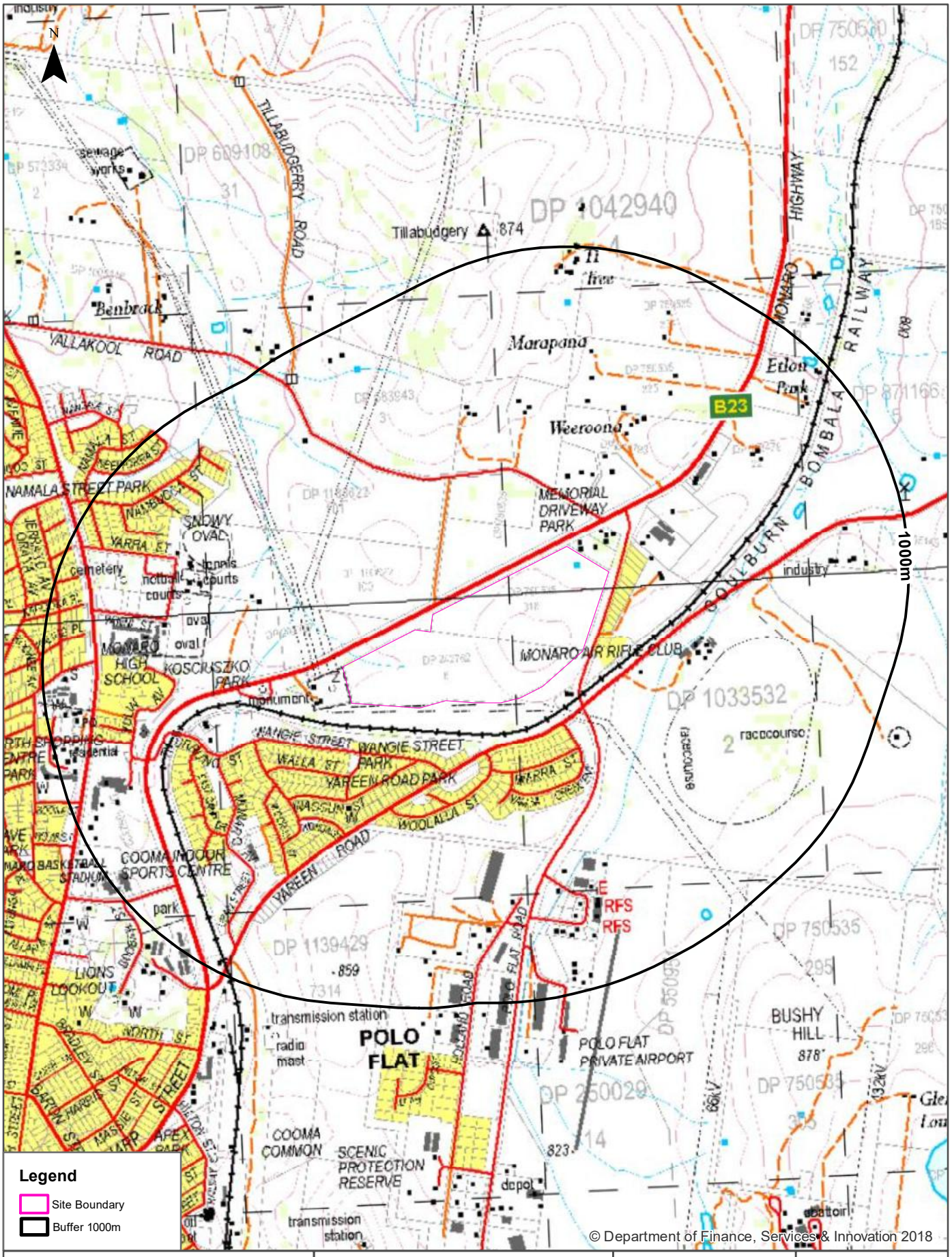
Aerial Imagery 1944

Monaro Highway, Cooma, NSW 2630



Topographic Map 2015

Monaro Highway, Cooma, NSW 2630



Scale: 0 200 400 600 800 Meters

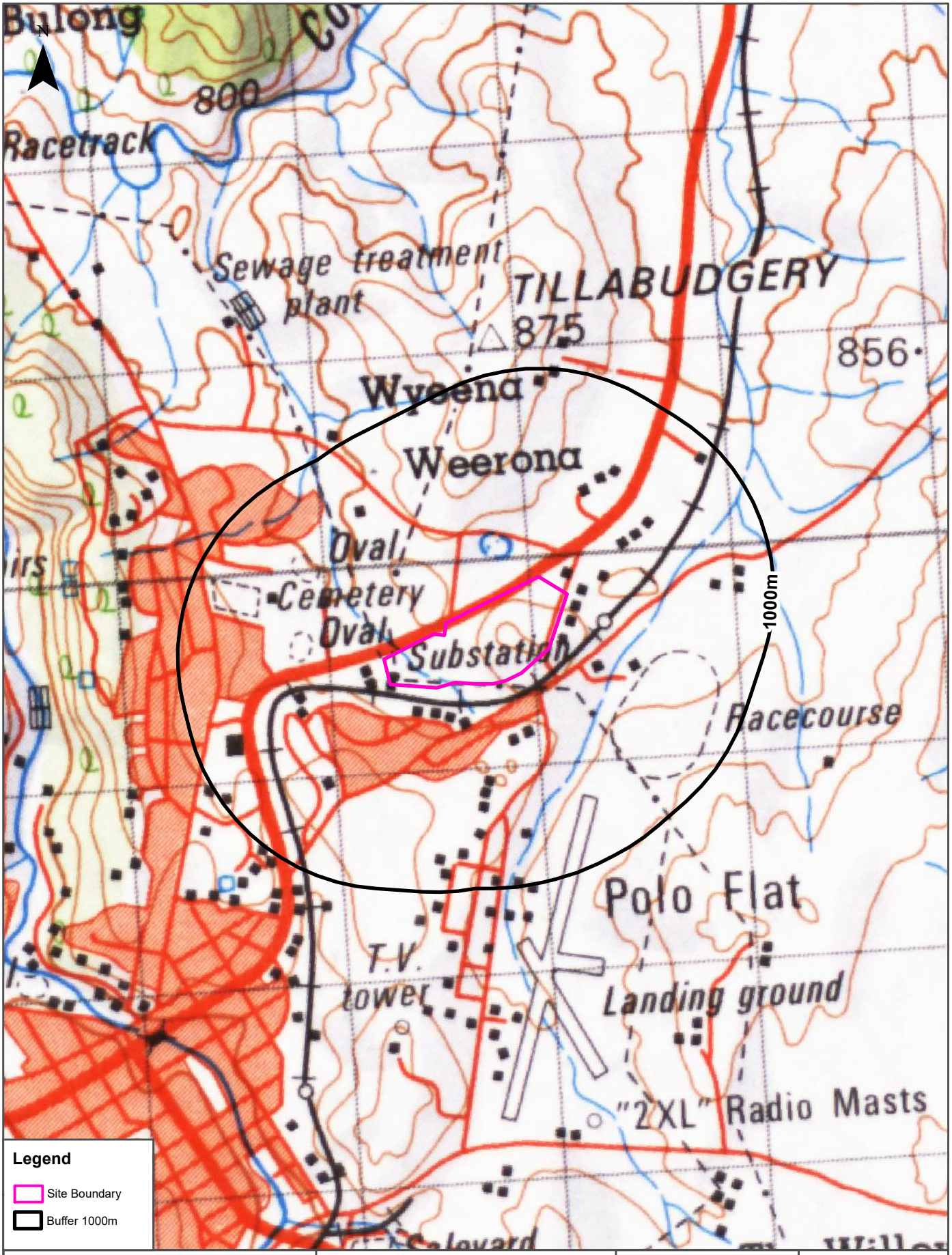
Data Sources: Topographic Map Data © NSW Land and Property Information

Coordinate System: GDA 1994 MGA Zone 56

Date: 24 June 2022

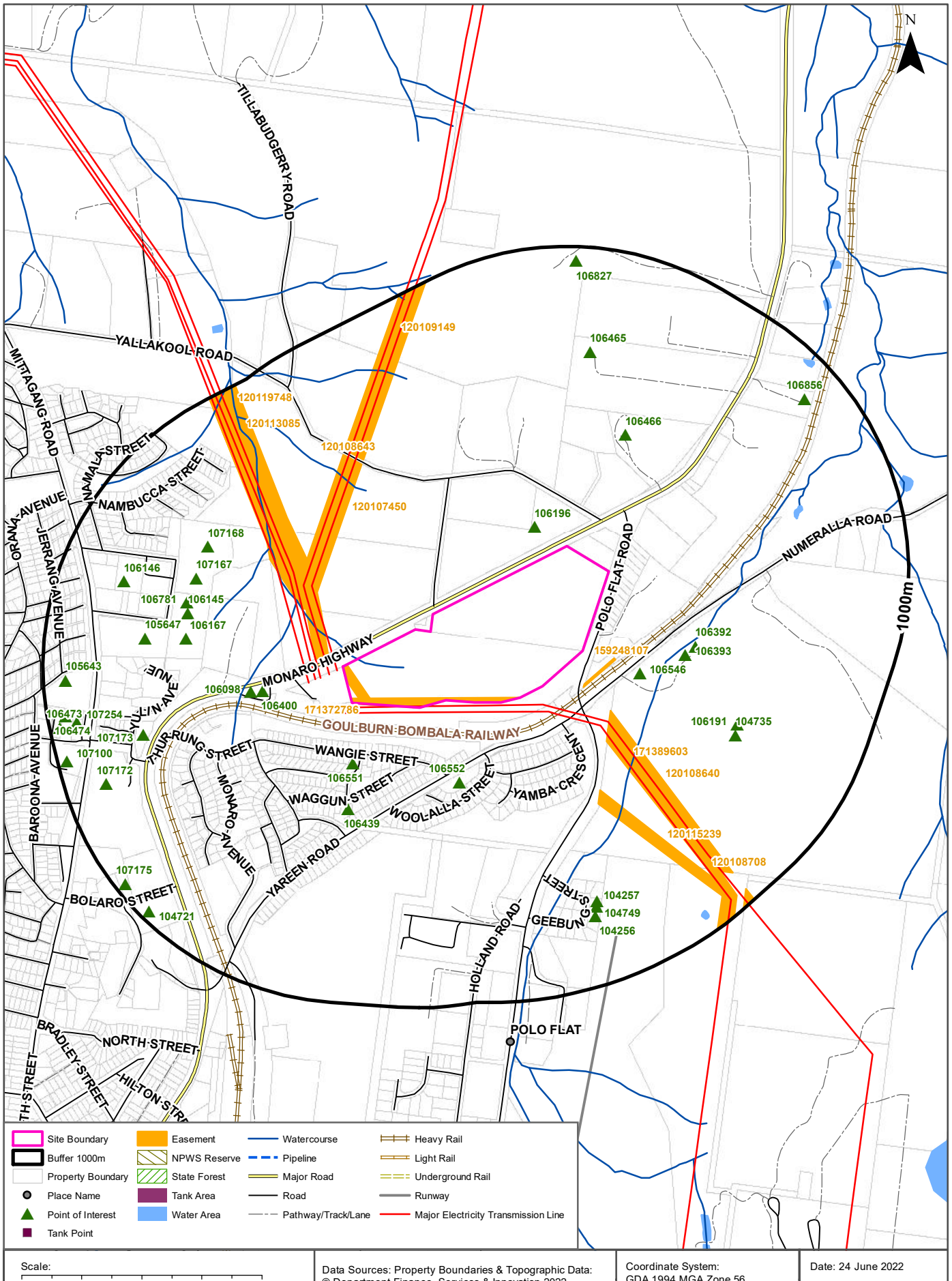
Historical Map 1977

Monaro Highway, Cooma, NSW 2630



Topographic Features

Monaro Highway, Cooma, NSW 2630



Scale: 0 100 200 400 600 800 Meters

Data Sources: Property Boundaries & Topographic Data: © Department Finance, Services & Innovation 2022

Coordinate System: GDA 1994 MGA Zone 56

Date: 24 June 2022

Topographic Features

Monaro Highway, Cooma, NSW 2630

Points of Interest

What Points of Interest exist within the dataset buffer?

Map Id	Feature Type	Label	Distance	Direction
106196	Park	MEMORIAL DRIVEWAY PARK	107m	North
106551	Park	WANGIE STREET PARK	200m	South West
106546	Community Facility	COOMA PONY CLUB	205m	East
106552	Park	YAREEN ROAD PARK	270m	South
106400	Monument	KOSCIUSZKO MEMORIAL	280m	West
106098	Park	KOSCIUSZKO PARK	318m	West
106393	Sports Centre	MONARO AIR RIFLE CLUB	328m	East
106392	Community Facility	COOMA BOCCE SPORTING CLUB	352m	East
106439	Place Of Worship	BRETHREN CHURCH	353m	South West
106466	Homestead	WEEROONA	420m	North East
106167	Sports Field	OVAL	531m	West
106145	Sports Field	OVAL	547m	West
106781	Sports Court	NETBALL COURTS	563m	West
106191	Park	TI-TREE RECREATION RESERVE	570m	East
107167	Sports Court	TENNIS COURTS	571m	West
104735	Racecourse	TI-TREE RACECOURSE	583m	East
107168	Sports Field	SNOWY OVAL	602m	West
106465	Homestead	MARAPANA	652m	North
105647	High School	MONARO HIGH SCHOOL	666m	West
107173	Tourist Information Centre	SNOWY HYDRO INFORMATION AND EDUCATION CENTRE	701m	West
104749	SES Facility	COOMA-MONARO SES	726m	South East
104257	Firestation - Bush	COOMA-MONARO FIRE CONTROL CENTRE	741m	South
104256	Firestation - Bush	COOMA RFB	772m	South
106146	Cemetery	COOMA CEMETERY	783m	West
107172	Community Facility	SNOWY MOUNTAINS AUTHORITY	863m	West
106856	Homestead	ETLON PARK	870m	North East
107254	Post Office	COOMA NORTH POST OFFICE	906m	West
105643	Primary School	COOMA NORTH PUBLIC SCHOOL	926m	West
106474	Place Of Worship	MORMON CHURCH	940m	West
106827	Homestead	TI TREE	953m	North
106473	Park	COOMA NORTH SHOPPING CENTRE PARK	965m	West

Map Id	Feature Type	Label	Distance	Direction
107175	Sports Centre	COOMA INDOOR SPORTS CENTRE	967m	South West
107100	Nursing Home	YALLAMBEE LODGE COOMA	969m	West
104721	Park	Park	970m	South West

Topographic Data Source: © Land and Property Information (2015)
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Topographic Features

Monaro Highway, Cooma, NSW 2630

Tanks (Areas)

What are the Tank Areas located within the dataset buffer?
Note. The large majority of tank features provided by LPI are derived from aerial imagery & are therefore primarily above ground tanks.

Map Id	Tank Type	Status	Name	Feature Currency	Distance	Direction
N/A	No records in buffer					

Tanks (Points)

What are the Tank Points located within the dataset buffer?
Note. The large majority of tank features provided by LPI are derived from aerial imagery & are therefore primarily above ground tanks.

Map Id	Tank Type	Status	Name	Feature Currency	Distance	Direction
N/A	No records in buffer					

Tanks Data Source: © Land and Property Information (2015)
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Major Easements

What Major Easements exist within the dataset buffer?
Note. Easements provided by LPI are not at the detail of local governments. They are limited to major easements such as Right of Carriageway, Electrical Lines (66kVa etc.), Easement to drain water & Significant subterranean pipelines (gas, water etc.).

Map Id	Easement Class	Easement Type	Easement Width	Distance	Direction
171372786	Primary	Electricity	30m & Var	0m	On-site
120108640	Primary	Undefined		0m	On-site
120107450	Primary	Undefined		65m	North West
159248107	Primary	Right of way	5.795m	87m	East
120108643	Primary	Undefined		227m	North West
171389603	Primary	Electricity	30m	252m	South East
120115239	Primary	Undefined		396m	South East
120113085	Primary	Undefined		483m	North West
120119748	Primary	Undefined		715m	North West
120108708	Primary	Undefined		821m	South East
120109149	Primary	Undefined		836m	North

Easements Data Source: © Land and Property Information (2015)
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Topographic Features

Monaro Highway, Cooma, NSW 2630

State Forest

What State Forest exist within the dataset buffer?

State Forest Number	State Forest Name	Distance	Direction
N/A	No records in buffer		

State Forest Data Source: © NSW Department of Finance, Services & Innovation (2018)
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National Parks and Wildlife Service Reserves

What NPWS Reserves exist within the dataset buffer?

Reserve Number	Reserve Type	Reserve Name	Gazetted Date	Distance	Direction
N/A	No records in buffer				

NPWS Data Source: © NSW Department of Finance, Services & Innovation (2018)
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Elevation Contours (m AHD)

Monaro Highway, Cooma, NSW 2630



Hydrogeology & Groundwater

Monaro Highway, Cooma, NSW 2630

Hydrogeology

Description of aquifers within the dataset buffer:

Description	Distance	Direction
Fractured or fissured, extensive aquifers of low to moderate productivity	0m	On-site

Hydrogeology Map of Australia : Commonwealth of Australia (Geoscience Australia)
Creative Commons 3.0 © Commonwealth of Australia http://creativecommons.org/licenses/by/3.0/au/deed.en

Temporary Water Restriction (Botany Sands Groundwater Source) Order 2018

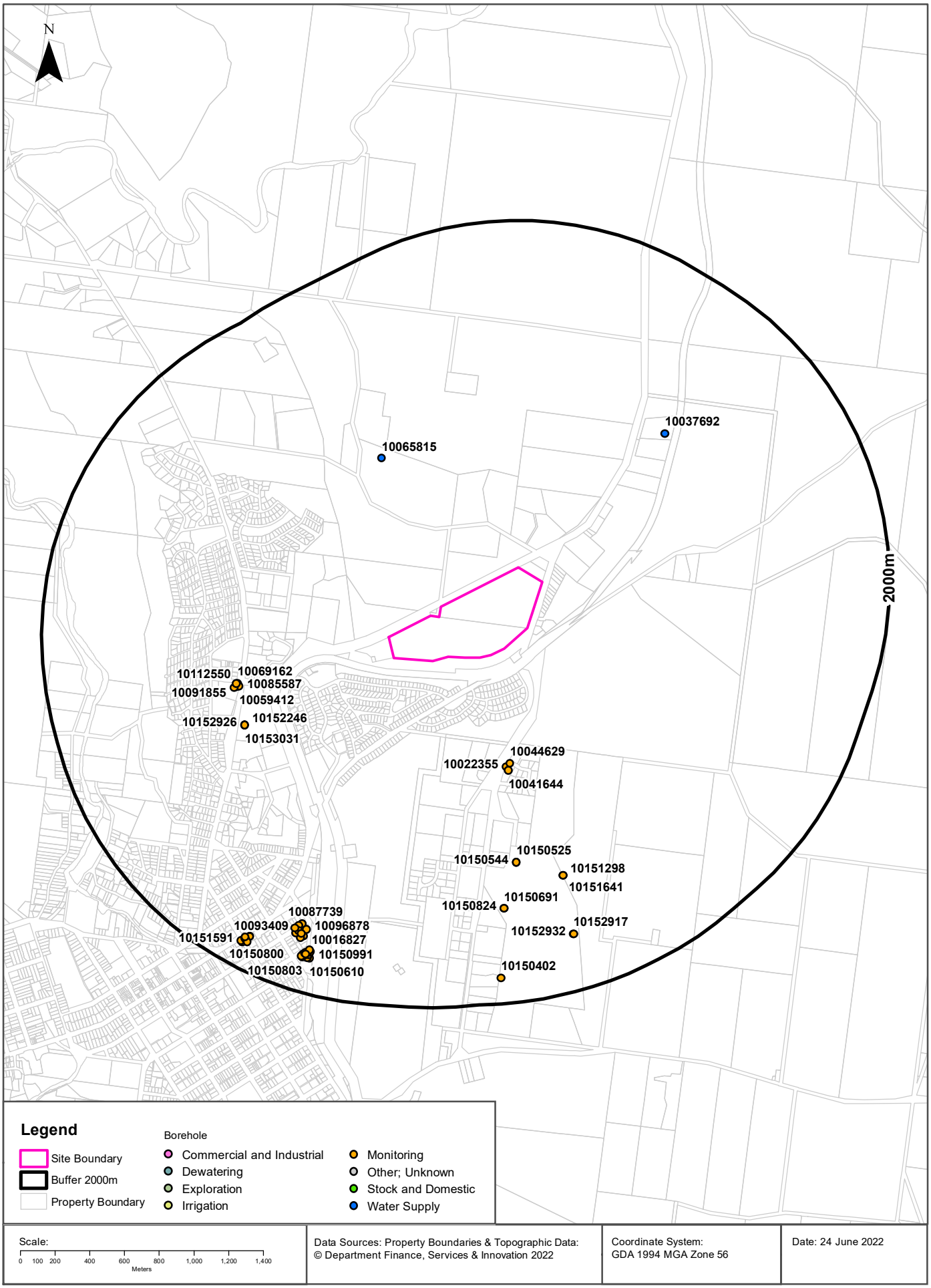
Temporary water restrictions relating to the Botany Sands aquifer within the dataset buffer:

Prohibition Area No.	Prohibition	Distance	Direction
N/A	No records in buffer		

Temporary Water Restriction (Botany Sands Groundwater Source) Order 2018 Data Source : NSW Department of Primary Industries

Groundwater Boreholes

Monaro Highway, Cooma, NSW 2630



Hydrogeology & Groundwater

Monaro Highway, Cooma, NSW 2630

Groundwater Boreholes

Boreholes within the dataset buffer:

NGIS Bore ID	NSW Bore ID	Bore Type	Status	Drill Date	Bore Depth (m)	Reference Elevation	Height Datum	Salinity (mg/L)	Yield (L/s)	SWL (mbgl)	Distance	Direction
10044629	GW416238	Monitoring	Functional	23/04/2013	6.00		AHD			3.00	634m	South
10022355	GW416237	Monitoring	Functional	23/04/2013	6.00		AHD			3.50	649m	South
10041644	GW416239	Monitoring	Functional	23/04/2013	2.80		AHD				671m	South
10085587	GW416417	Monitoring	Functional	05/09/2013	10.00		AHD			5.50	905m	West
10069162	GW416415	Monitoring	Functional	05/09/2013	11.50		AHD			5.50	908m	West
10065815	GW416056	Water Supply	Abandoned	02/04/2005	48.00		AHD				914m	North West
10112550	GW416414	Monitoring	Functional	05/09/2013	15.00		AHD			5.50	916m	West
10059412	GW416418	Monitoring	Functional	05/09/2013	14.00		AHD			5.60	920m	West
10091855	GW416416	Monitoring	Functional	06/09/2013	13.50		AHD			5.60	934m	West
10152246	GW417498	Monitoring	Functioning	18/02/2011	10.00		AHD				942m	South West
10152926	GW417498	Monitoring	Functioning	18/02/2011	10.00		AHD				942m	South West
10153031	GW417498	Monitoring	Functioning	18/02/2011	10.00		AHD				942m	South West
10037692	GW415904	Water Supply	Functioning	10/08/2011	36.00		AHD		0.600	4.00	1109m	North East
10150525	GW116336	Monitoring	Functioning	27/05/2019	13.00		AHD				1200m	South
10150544	GW116336	Monitoring	Functioning	27/05/2019	13.00		AHD				1200m	South
10151298	GW116337	Monitoring	Functioning	28/05/2019	18.00		AHD				1340m	South
10151641	GW116337	Monitoring	Functioning	28/05/2019	18.00		AHD				1340m	South
10150691	GW116338	Monitoring	Functioning	29/05/2019	11.00		AHD				1454m	South
10150824	GW116338	Monitoring	Functioning	29/05/2019	11.00		AHD				1454m	South
10087739	GW416412	Monitoring	Functioning	22/02/2012	3.00		AHD				1621m	South West
10111167	GW416341	Unknown	Functioning	06/11/2013	10.00		AHD				1621m	South West
10097165	GW416411	Monitoring	Functioning	21/02/2012	13.00		AHD				1637m	South West
10096878	GW416342	Monitoring	Functioning	09/08/2011	13.00		AHD				1644m	South West
10109442	GW416408	Monitoring	Functioning	21/02/2012	12.00		AHD				1658m	South West
10097892	GW416297	Monitoring	Functioning	08/08/2011	15.00		AHD				1664m	South West
10100718	GW416335	Monitoring	Functioning	09/08/2011	14.50		AHD				1676m	South West
10064110	GW416318	Monitoring	Functioning	09/08/2011	15.50		AHD				1678m	South West
10152917	GW116457	Monitoring	Functioning	30/05/2019	30.00		AHD				1678m	South
10152932	GW116450	Monitoring	Functioning	28/05/2019	13.50		AHD				1680m	South
10093409	GW416413	Monitoring	Functioning	06/09/2012	9.60		AHD				1682m	South West

NGIS Bore ID	NSW Bore ID	Bore Type	Status	Drill Date	Bore Depth (m)	Reference Elevation	Height Datum	Salinity (mg/L)	Yield (L/s)	SWL (mbgl)	Distance	Direction
10016827	GW416371	Monitoring	Functioning	09/08/2011	11.50		AHD				1687m	South West
10087745	GW416334	Monitoring	Functioning	09/08/2011	10.00		AHD				1698m	South West
10152876	GW417509	Monitoring	Functioning	05/08/2012	8.00		AHD				1753m	South West
10150991	GW417500	Monitoring	Functioning	05/08/2012	8.00		AHD				1760m	South West
10151444	GW417514	Monitoring	Functioning	04/05/2010	13.10		AHD				1766m	South West
10152056	GW417511	Monitoring	Functioning	04/05/2010	10.00		AHD				1771m	South West
10152792	GW417503	Monitoring	Functioning	05/08/2012	8.00		AHD				1772m	South West
10151760	GW417502	Monitoring	Functioning	05/08/2012	8.00		AHD				1775m	South West
10151029	GW417501	Monitoring	Functioning	05/08/2012	7.90		AHD				1778m	South West
10152784	GW417512	Monitoring	Functioning	04/05/2010	10.00		AHD				1778m	South West
10152094	GW417513	Monitoring	Functioning	04/05/2010	15.00		AHD				1781m	South West
10154947	GW417513	Monitoring	Proposed	04/05/2010	10.00		AHD				1781m	South West
10151994	GW417505	Monitoring	Functioning	05/08/2012	8.00		AHD				1786m	South West
10152657	GW417504	Monitoring	Functioning	05/08/2012	7.80		AHD				1792m	South West
10150748	GW417506	Monitoring	Functioning	05/08/2012	8.00		AHD				1795m	South West
10150610	GW417515	Monitoring	Functioning	04/05/2010	10.00		AHD				1796m	South West
10152702	GW417510	Monitoring	Functioning	05/08/2012	8.00		AHD				1797m	South West
10150993	GW417507	Monitoring	Functioning	05/08/2012	8.00		AHD				1798m	South West
10150803	GW417508	Monitoring	Functioning	05/08/2012	8.00		AHD				1802m	South West
10151140	GW417835	Monitoring	Functioning	11/05/2004	5.80		AHD				1805m	South West
10151652	GW417832	Monitoring	Functioning	24/03/1999	6.00		AHD				1807m	South West
10151866	GW417826	Monitoring	Functioning	23/03/1999	6.20		AHD				1822m	South West
10151739	GW417825	Monitoring	Functioning	24/03/1999	6.00		AHD				1828m	South West
10150809	GW417831	Monitoring	Unknown	24/03/1999	6.20		AHD				1832m	South West
10151666	GW417827	Monitoring	Functioning	23/03/1999	3.00		AHD				1833m	South West
10151217	GW417828	Monitoring	Functioning	23/03/1999	1.50		AHD				1837m	South West
10150800	GW417829	Monitoring	Unknown	23/03/1999	1.70		AHD				1840m	South West
10151853	GW417830	Monitoring	Unknown	24/03/1999	6.00		AHD				1841m	South West
10151591	GW417833	Monitoring	Functioning	24/01/2002	6.00		AHD				1851m	South West
10150402	GW116448	Monitoring	Functioning	29/05/2019	12.50		AHD				1852m	South
10151462	GW417834	Monitoring	Functioning	24/01/2002	6.00		AHD				1857m	South West

Borehole Data Source: Bureau of Meteorology; Water NSW. Creative Commons 3.0 © Commonwealth of Australia http://creativecommons.org/licenses/by/3.0/au/deed.en

Hydrogeology & Groundwater

Monaro Highway, Cooma, NSW 2630

Driller's Logs

Drill log data relevant to the boreholes within the dataset buffer:

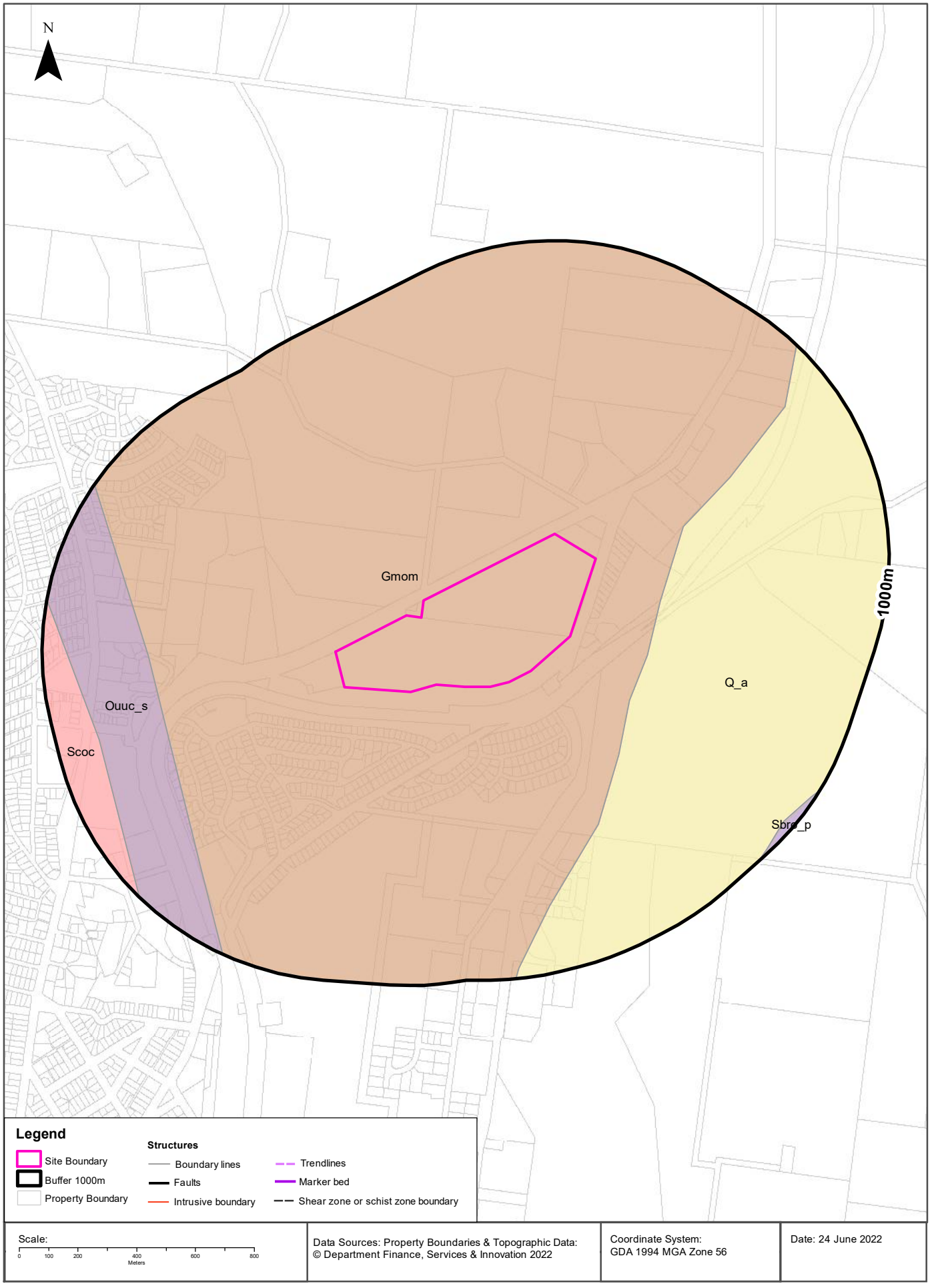
NGIS Bore ID	Drillers Log	Distance	Direction
10044629	0.00m-0.20m bitumen 0.20m-0.50m silt, sandy, orange, loose - trace gravel 0.50m-1.00m silty clay, with gravel, firm, brown 1.00m-2.50m silty clay, with gravel, firm and colour change - dark brown 2.50m-4.00m silty clay, firm, brown, trace gravel 4.00m-4.50m silty clay, firm, brown - trace gravel, groundwater encountered 4.50m-4.60m silty clay, firm to very stiff 4.60m-6.00m silty clay, end of hole	634m	South
10022355	0.00m-0.30m base, gravel 0.30m-0.50m silty clay, brown, friable - trace gravel 0.50m-1.00m silty clay, brown, firm - trace gravel 1.00m-4.00m silty clay, mottled, brown orange, firm - trace gravel 4.00m-4.50m silty clay, groundwater encountered 4.50m-5.00m silty clay, colour change - brown 5.00m-6.00m silty clay	649m	South
10041644	0.00m-0.30m concrete 0.30m-0.40m silt, clay, gravel, friable, dark brown 0.40m-1.00m silty clay, firm, dark brown, trace gravel 1.00m-2.50m silty clay, stiff and colour change, dark brown 2.50m-2.80m silty clay	671m	South
10085587	0.00m-1.80m granite, weathered 1.80m-10.00m granite, hard, dry, grey	905m	West
10069162	0.00m-1.00m fill, gravelly clay and basalt, dark brown with pieces of basalt ranging from med gravel to cobbles, dry 1.00m-8.10m granite, weathered, grey brown, consistency of clayey sand, fine to coarse grained, moist 8.10m-11.50m granite, hard, grey, dry	908m	West
10065815	0.00m-1.00m topsoil 1.00m-12.00m granite, soft 12.00m-48.00m granite	914m	North West
10112550	0.00m-2.00m fill, clayey sand, weathered granite, brown fine to coarse grained, moist 2.00m-4.00m clayey sand, weathered granite, brown, fine to coarse grained, dry 4.00m-5.30m Granite, weathered, grey, comprised of fine to coarse grained sand, dry 5.30m-6.80m Granite, weathered, grey brown, comprised of fine to coarse grained sand, dry 6.80m-15.00m granite, hard, dry, grey	916m	West
10059412	0.00m-0.10m concrete 0.10m-8.20m granite, weathered, clayey sand, grey brown, dry to moist, fine to coarse grained sand 8.20m-14.00m granite, hard, dry, grey	920m	West
10091855	0.00m-0.10m concrete 0.10m-4.90m granite, weathered, grey brown, comprised of fine to coarse grained sand, dry 4.90m-13.50m granite,hard, dry, grey	934m	West
10037692	0.00m-3.00m Clay 3.00m-11.00m Granite, decomposed 11.00m-24.00m Clay, grey granite 24.00m-30.00m Granite, grey and black	1109m	North East
10087739	0.00m-0.05m Bitamen 0.05m-3.00m Schist	1621m	South West
10111167	0.00m-0.10m Bitamen 0.10m-0.30m Sand, gravelly, med brown 0.30m-10.00m Schist, weathered, grey	1621m	South West
10097165	0.00m-0.25m Bitamen 0.25m-1.70m Fill 1.70m-4.70m Schist 4.70m-13.00m Silty clay	1637m	South West
10096878	0.00m-0.30m Sand, silty, fine grained 0.30m-0.40m Sand, med grained 0.40m-13.00m Schist, weathered grey	1644m	South West
10109442	0.00m-0.06m Bitamen 0.06m-12.00m Schist, differing degrees of hardness	1658m	South West
10100718	0.00m-0.10m Bitumen at surface 0.10m-0.70m Sand, silty 0.70m-14.50m Schist, weathered	1676m	South West

NGIS Bore ID	Drillers Log	Distance	Direction
10064110	0.00m-0.05m Bitumen at surface 0.05m-0.40m Fill sandy Gravel 0.40m-1.30m Fill,gravelling Sand. 1.30m-15.00m Schist, bedrock	1678m	South West
10093409	0.00m-0.16m Concrete 0.16m-0.26m Sand, gravelly 0.26m-9.60m Schist	1682m	South West
10016827	0.00m-11.50m Schist, weathered	1687m	South West
10087745	0.00m-0.03m Sand, light brown 0.03m-10.00m Schist, weathered	1698m	South West

Drill Log Data Source: Bureau of Meteorology; Water NSW. Creative Commons 3.0 © Commonwealth of Australia http://creativecommons.org/licenses/by/3.0/au/deed.en

Geology

Monaro Highway, Cooma, NSW 2630



Geology

Monaro Highway, Cooma, NSW 2630

Geological Units

What are the Geological Units within the dataset buffer?

Unit Code	Unit Name	Description	Unit Stratigraphy	Age	Dominant Lithology	Distance
Gmom	Monaro Volcanics	Medium- to very coarse-grained porphyritic dolerite, massive to vesicular dark blue-grey to black porphyritic basalt, coarse- to very fine-grained. Lacustrine to fluvial unconsolidated sedimentary rocks and silcrete form the sub-basaltic component.	/Monaro Volcanic Complex//Monaro Volcanics//	Ypresian (base) to Rupelian (top)	Dolerite	0m
Q_a	Alluvium	Unconsolidated grey to brown to beige humic (±)micaceous silty clay, quartz-(±)lithic silt, fine- to medium-grained quartz-rich to quartz-lithic sand, polymictic pebble to cobble gravel (as sporadic lenses); sporadic palaeosol horizons.	/Alluvium////	Quaternary (base) to Now (top)	Clastic sediment	253m
Ouuc_s	Cooma Metamorphic Complex - schist	Mica schist, biotite schist, andalusite-sillimanite bearing schist, orthoclase-cordierite knotted schists.	/Ungrouped Ordovician units//Cooma Metamorphic Complex/Cooma Metamorphic Complex - schist/	Early Ordovician (base) to Early Ordovician (top)	Schist	623m
Scoc	Cooma Granodiorite	Biotite granite, foliated granite, leucogranite, diorite, tonalitic gneiss.	Cooma Supersuite/Cooma Suite//Cooma Granodiorite//	Pridoli (base) to Pridoli (top)	Granite	854m
Sbro_p	Colinton Volcanics - dacite, tuff, slate	Unnamed sheared dacite and tuff; lenses of slaty shale.	/Bredbo Group//Colinton Volcanics/Colinton Volcanics - dacite, tuff, slate/	Gorstian (base) to Pridoli (top)	Dacite	963m

Linear Geological Structures

What are the Dyke, Sill, Fracture, Lineament and Vein trendlines within the dataset buffer?

Map ID	Feature Description	Map Sheet Name	Distance
No Features			

What are the Faults, Shear zones or Schist zones, Intrusive boundaries & Marker beds within the dataset buffer?

Map ID	Boundary Type	Description	Map Sheet Name	Distance
No Features				

Geological Data Source: Statewide Seamless Geology v2.1, Department of Regional NSW
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Naturally Occurring Asbestos Potential

Monaro Highway, Cooma, NSW 2630

Naturally Occurring Asbestos Potential

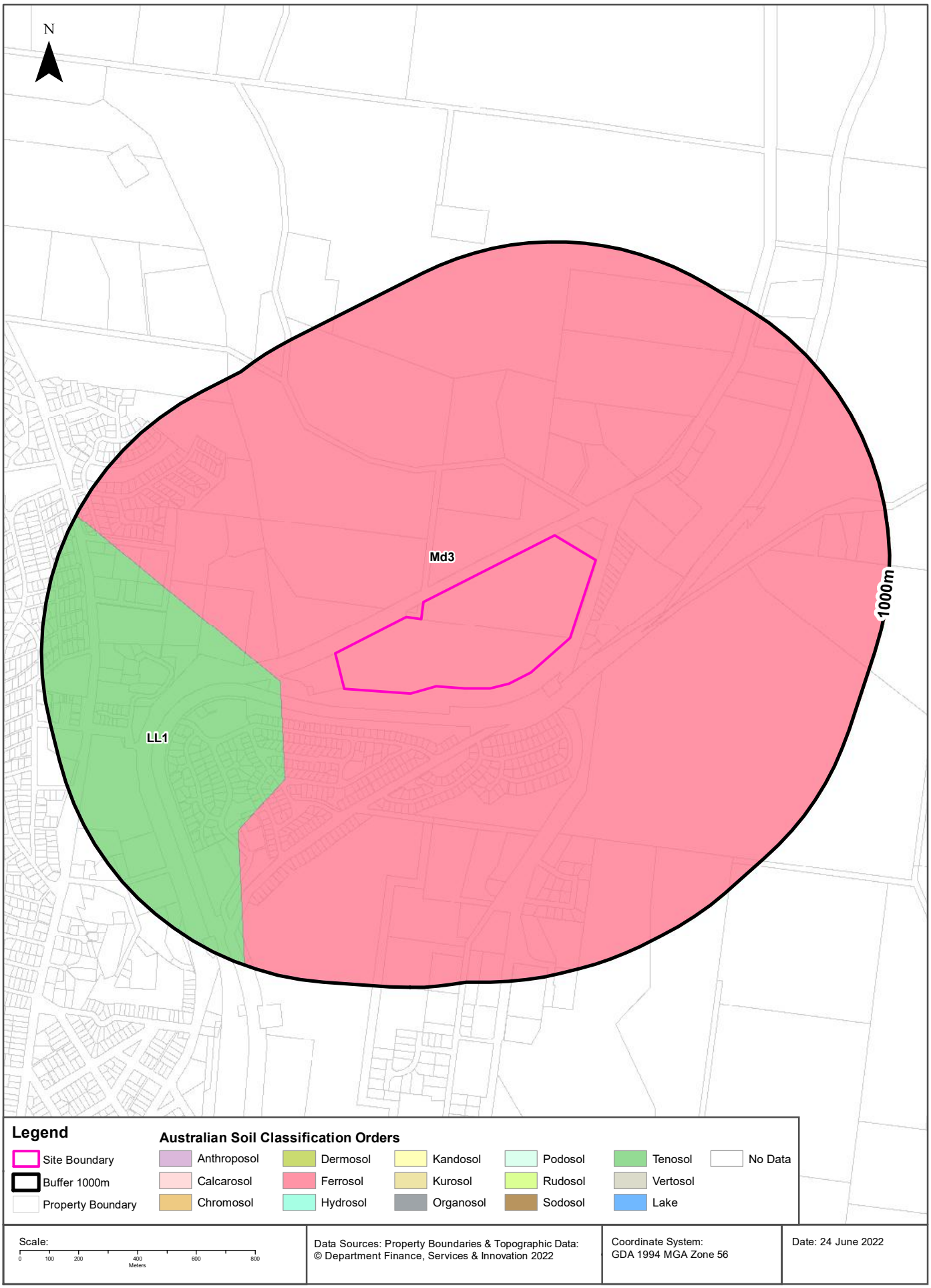
Naturally Occurring Asbestos Potential within the dataset buffer:

Potential	Sym	Strat Name	Group	Formation	Scale	Min Age	Max Age	Rock Type	Dom Lith	Description	Dist	Dir
No records in buffer												

Naturally Occurring Asbestos Potential Data Source: © State of New South Wales through NSW Department of Industry, Resources & Energy

Atlas of Australian Soils

Monaro Highway, Cooma, NSW 2630



Soils

Monaro Highway, Cooma, NSW 2630

Atlas of Australian Soils

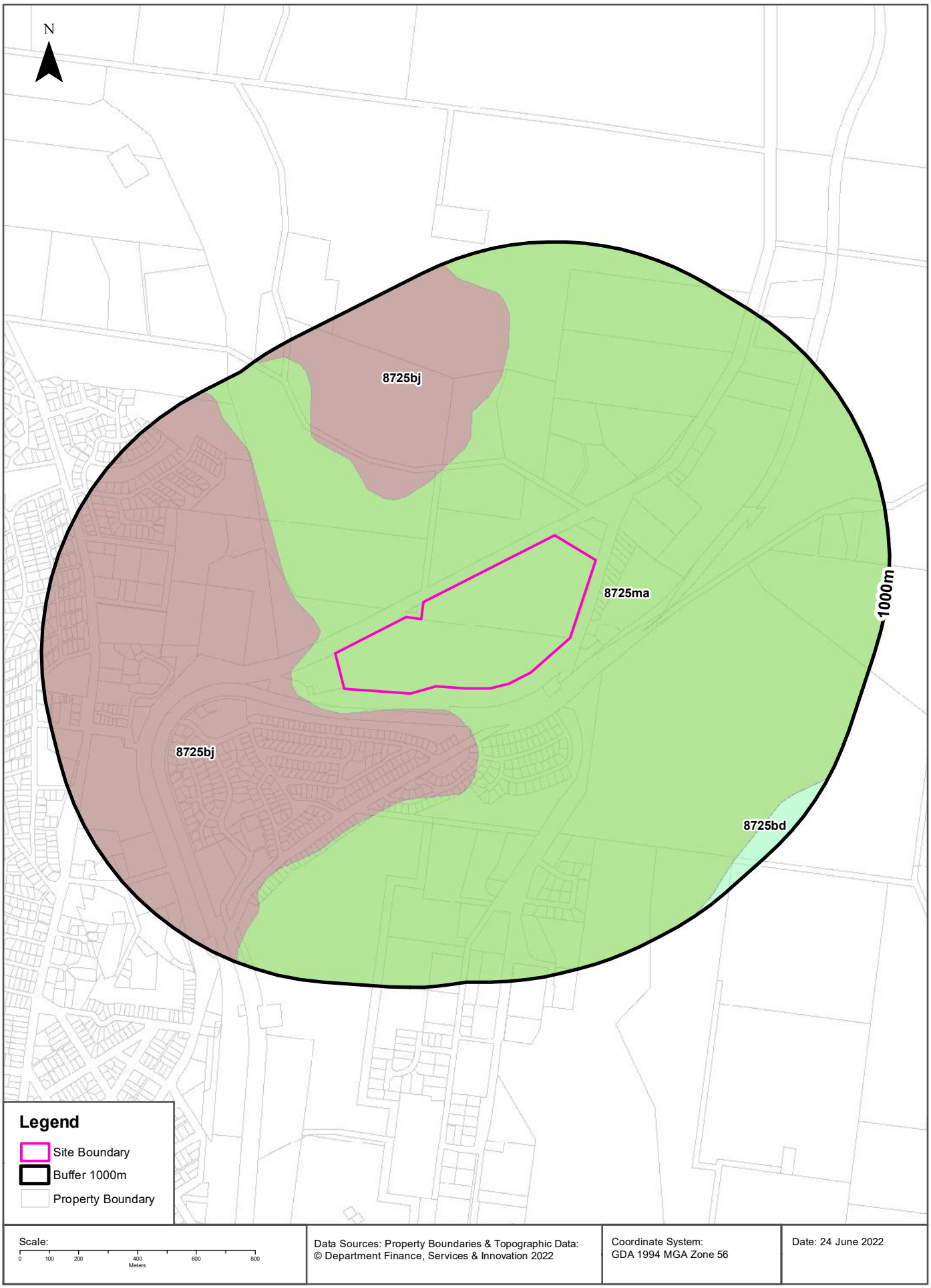
Soil mapping units and Australian Soil Classification orders within the dataset buffer:

Map Unit Code	Soil Order	Map Unit Description	Distance	Direction
Md3	Ferrosol	Undulating to hilly dissected tableland with some rounded hills, flat-topped ridges, and small valley plains; a multicyclic erosional landscape: upper slopes generally and ridge tops of red and brown friable earths (Gn3.12 and Gn3.22) with friable neutral red soils (Dr4.12) in association with cracking clays (Ug5.1, especially Ug5.12, Ug5.13, and Ug5.15) on mid and lower slopes, and also some dark friable earths (Gn3.41) on lower slopes, and in association with valley plains of various cracking clays (Ug5.1); hard neutral red soils (Dr2.12) occur on the crests of some hills; stony dark porous loamy soils (Um6.21) occur on some lower hill slopes; also other soils described from the area apparently code as (Dd3.11 and Dd3.12), (Um6.1), and (Ug5.2).	0m	On-site
LL1	Tenosol	Hills and plains--multicyclic erosional landscape of hills and hillocky areas with intervening plain-like areas, the whole traversed and dissected by variously incised stream valleys--some layering of soil materials: (i) relatively higher hills and ranges of loamy soils having an A2 horizon (Um4.2) and yellow-brown earths (Gn2.44) with (Um5.41 and Um5.S1), many stones, and rock outcrops; gullies of (Dr2) and (Dy3.32 and Dy3.42) soils; (ii) relatively lower hills and hillocky areas of hard acidic red soils (Dr2.21) and (Uc6.11), (Um) soils and rock outcrops with (Dy3.4) soils on lower slopes and (Dy3.43) in depressions; (iii) undulating plain-like areas with slopes and benches of red and yellow earths including (Gn2.14, Gn2.15, and Gn2.24); (iv) stream valleys of (Um6.11), some with clay D horizons and other (Uc) and (Um) soils; (v) also remains of various soil materials such as ironstone boulders in various situations. Soil dominance is difficult to assess: the most common soils are likely to be the (D) soils as a group but their variety is such that no single (D) soil can, on present data, be regarded as dominant.	208m	West

Atlas of Australian Soils Data Source: CSIRO
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Soil Landscapes of Central and Eastern NSW

Monaro Highway, Cooma, NSW 2630



Soils

Monaro Highway, Cooma, NSW 2630

Soil Landscapes of Central and Eastern NSW

Soil Landscapes of Central and Eastern NSW within the dataset buffer:

Soil Code	Name	Distance	Direction
8725ma	Maneroo	0m	On-site
8725bj	Binjura	53m	West
8725bd	Bredbo	908m	South East

Soil Landscapes of Central and Eastern NSW: NSW Department of Planning, Industry and Environment
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Acid Sulfate Soils

Monaro Highway, Cooma, NSW 2630

Environmental Planning Instrument - Acid Sulfate Soils

What is the on-site Acid Sulfate Soil Plan Class that presents the largest environmental risk?

Soil Class	Description	EPI Name
N/A		

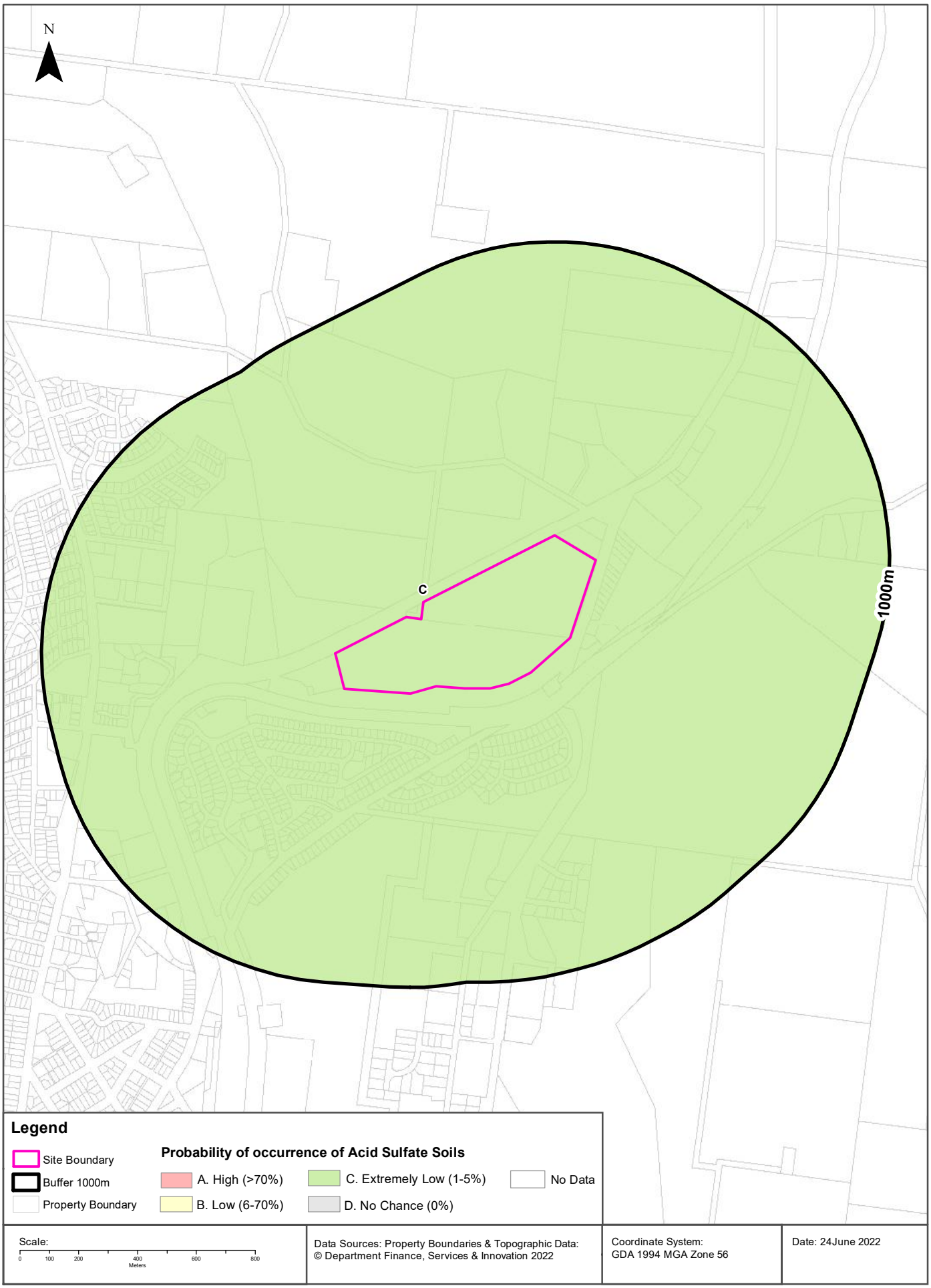
If the on-site Soil Class is 5, what other soil classes exist within 500m?

Soil Class	Description	EPI Name	Distance	Direction
N/A				

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Atlas of Australian Acid Sulfate Soils

Monaro Highway, Cooma, NSW 2630



Acid Sulfate Soils

Monaro Highway, Cooma, NSW 2630

Atlas of Australian Acid Sulfate Soils

Atlas of Australian Acid Sulfate Soil categories within the dataset buffer:

Class	Description	Distance	Direction
C	Extremely low probability of occurrence. 1-5% chance of occurrence with occurrences in small localised areas.	0m	On-site

Atlas of Australian Acid Sulfate Soils Data Source: CSIRO
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Dryland Salinity

Monaro Highway, Cooma, NSW 2630

Dryland Salinity - National Assessment

Is there Dryland Salinity - National Assessment data onsite?

No

Is there Dryland Salinity - National Assessment data within the dataset buffer?

No

What Dryland Salinity assessments are given?

Assessment 2000	Assessment 2020	Assessment 2050	Distance	Direction
N/A	N/A	N/A		

Dryland Salinity Data Source : National Land and Water Resources Audit
The Commonwealth and all suppliers of source data used to derive the maps of "Australia, Forecast Areas Containing Land of High Hazard or Risk of Dryland Salinity from 2000 to 2050" do not warrant the accuracy or completeness of information in this product. Any person using or relying upon such information does so on the basis that the Commonwealth and data suppliers shall bear no responsibility or liability whatsoever for any errors, faults, defects or omissions in the information. Any persons using this information do so at their own risk.
In many cases where a high risk is indicated, less than 100% of the area will have a high hazard or risk.

Mining

Monaro Highway, Cooma, NSW 2630

Mining Subsidence Districts

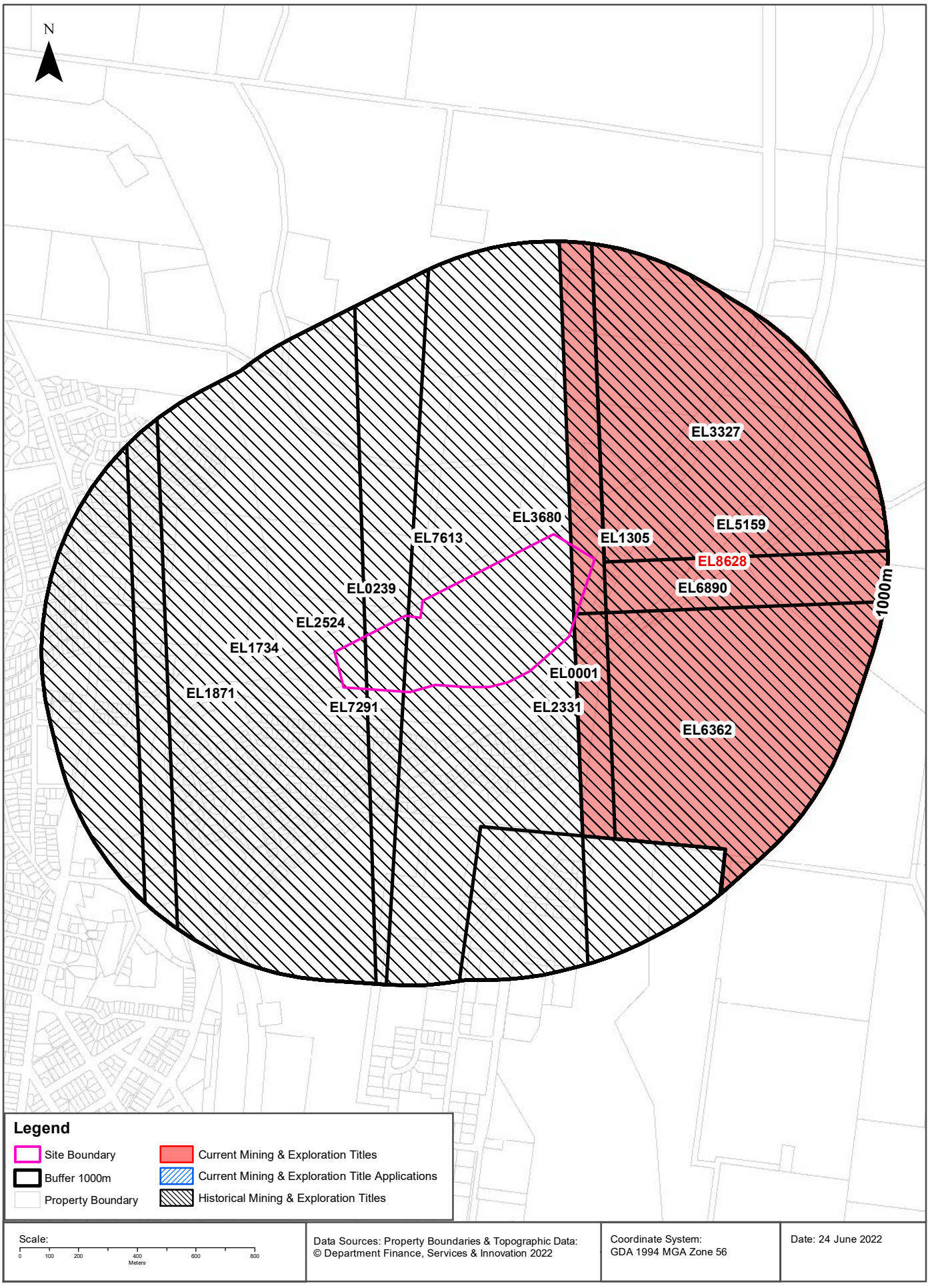
Mining Subsidence Districts within the dataset buffer:

District	Distance	Direction
There are no Mining Subsidence Districts within the report buffer		

Mining Subsidence District Data Source: © Land and Property Information (2016)
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Mining & Exploration Titles

Monaro Highway, Cooma, NSW 2630



Mining

Monaro Highway, Cooma, NSW 2630

Current Mining & Exploration Titles

Current Mining & Exploration Titles within the dataset buffer:

Title Ref	Holder	Grant Date	Expiry Date	Last Renewed	Operation	Resource	Minerals	Dist	Dir
EL8628	JARVIS MINERALS PTY LIMITED	24/07/2017	24/07/2023	24 Jul 2017	EXPLORING	MINERALS	Group 1	0m	On-site

Current Mining & Exploration Titles Data Source: © State of New South Wales through NSW Department of Industry

Current Mining & Exploration Title Applications

Current Mining & Exploration Title Applications within the dataset buffer:

Application Ref	Applicant	Application Date	Operation	Resource	Minerals	Dist	Dir
N/A	No records in buffer						

Current Mining & Exploration Title Applications Data Source: © State of New South Wales through NSW Department of Industry

Mining

Monaro Highway, Cooma, NSW 2630

Historical Mining & Exploration Titles

Historical Mining & Exploration Titles within the dataset buffer:

Title Ref	Holder	Start Date	End Date	Resource	Minerals	Dist	Dir
EL0001	ELECTROLYTIC ZINC COMPANY OF AUSTRALASIA LIMITED	01 Mar 1965	01 Sep 1966	MINERALS	Cu Pb Zn	0m	On-site
EL6890	NEW SOUTHERN MINING PTY LTD	04 Oct 2007	30 Jun 2009	MINERALS	Au	0m	On-site
EL3680	CRA EXPLORATION PTY LIMITED	01 Nov 1990	01 May 1991	MINERALS	Cu	0m	On-site
EL7613	DORADO RESOURCES PTY LTD	31 Aug 2010	31 Aug 2012	MINERALS	Ag Au Cu Pb Zn	0m	On-site
EL1305	OCCIDENTAL MINERALS CORPORATION OF AUSTRALIA	01 Feb 1980	01 Feb 1984	MINERALS	Cu Pb Zn Au Ag	0m	On-site
EL7291	VOLCAN AUSTRALIA CORPORATION PTY LTD	13 Feb 2009	13 Feb 2013	MINERALS	Al	0m	On-site
EL2331	JONES MINING NL	01 Nov 1984	01 Nov 1985	MINERALS	Au	0m	On-site
EL0239	COMINCO EXPLORATION	01 Feb 1970	01 Feb 1973	MINERALS	Sn W Mo Bi	0m	On-site
EL2524	LACHLAN RESOURCES NL	01 Sep 1985	01 Dec 1988	MINERALS	Au Cu Pb Zn	0m	On-site
EL1734	ESSO EXPLORATION & PRODUCTION AUSTRALIA INC	01 Oct 1981	01 Aug 1983	MINERALS	Pb Zn Cu Au	0m	On-site
EL1871	ESSO EXPLORATION & PRODUCTION AUSTRALIA INC	01 Oct 1981	01 Aug 1983	MINERALS	Pb Zn Cu Au	0m	On-site
EL6362	ELEPHANT MINES PTY LIMITED	23 Dec 2004	10 May 2007	MINERALS	Au Cu Pb Zn	0m	East
EL5159	COMPASS RESOURCES NL	22 Nov 1996	21 Nov 1998	MINERALS	Au	32m	East
EL3327	MOSAIC TILE AND POTTERY CO. PTY. LTD.	24 Aug 1989	11 Oct 1991	MINERALS	Diatomaceous earth	33m	North East

Historical Mining & Exploration Titles Data Source: © State of New South Wales through NSW Department of Industry

State Environmental Planning Policy

Monaro Highway, Cooma, NSW 2630

State Significant Precincts

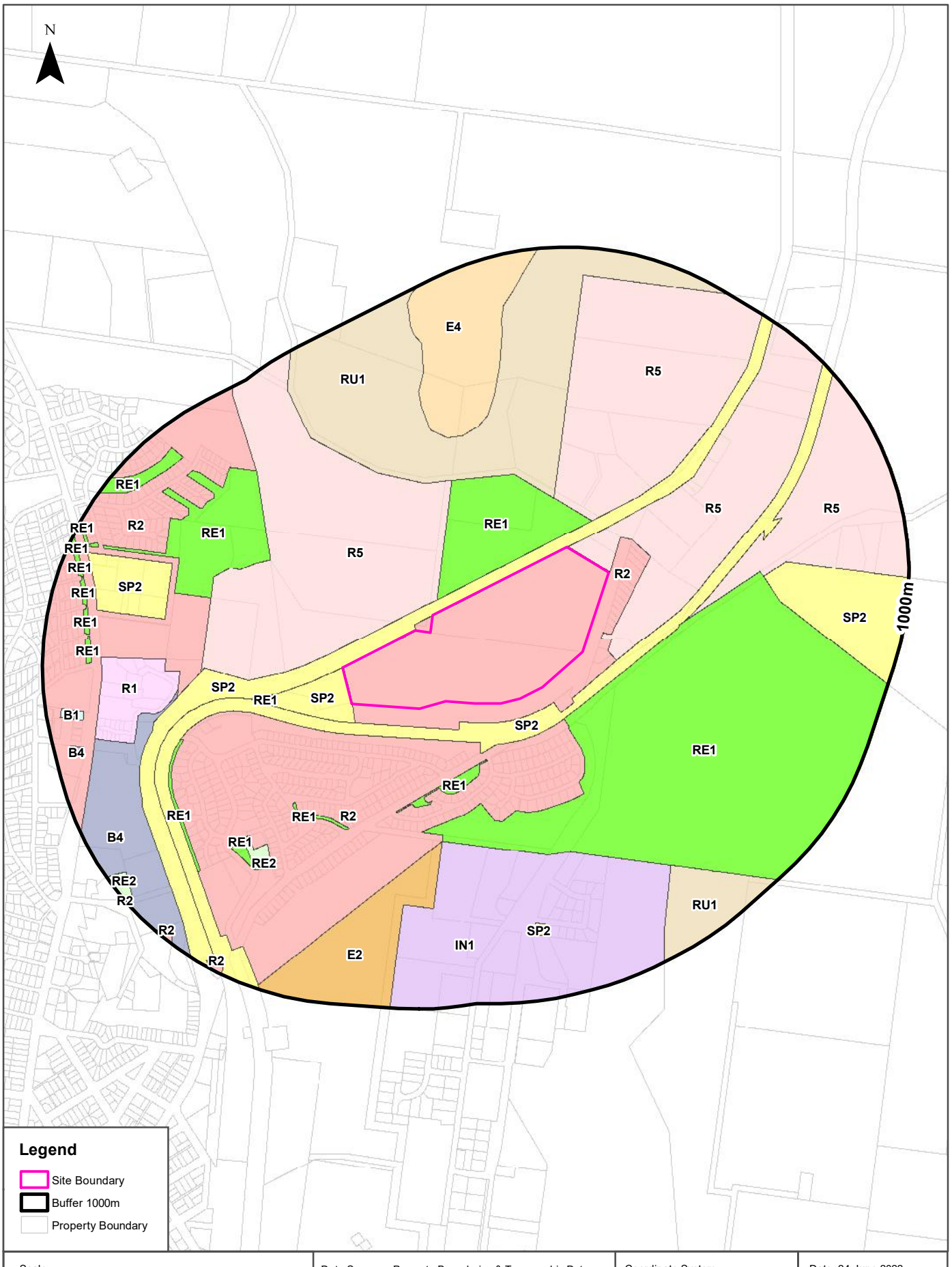
What SEPP State Significant Precincts exist within the dataset buffer?

Map Id	Precinct	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
N/A	No records in buffer							

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EPI Planning Zones

Monaro Highway, Cooma, NSW 2630



Data Sources: Property Boundaries & Topographic Data: © Department Finance, Services & Innovation 2022
Planning: NSW Crown Copyright - Planning & Environment

Coordinate System: GDA 1994 MGA Zone 56

Date: 24 June 2022

Environmental Planning Instrument

Monaro Highway, Cooma, NSW 2630

Land Zoning

What EPI Land Zones exist within the dataset buffer?

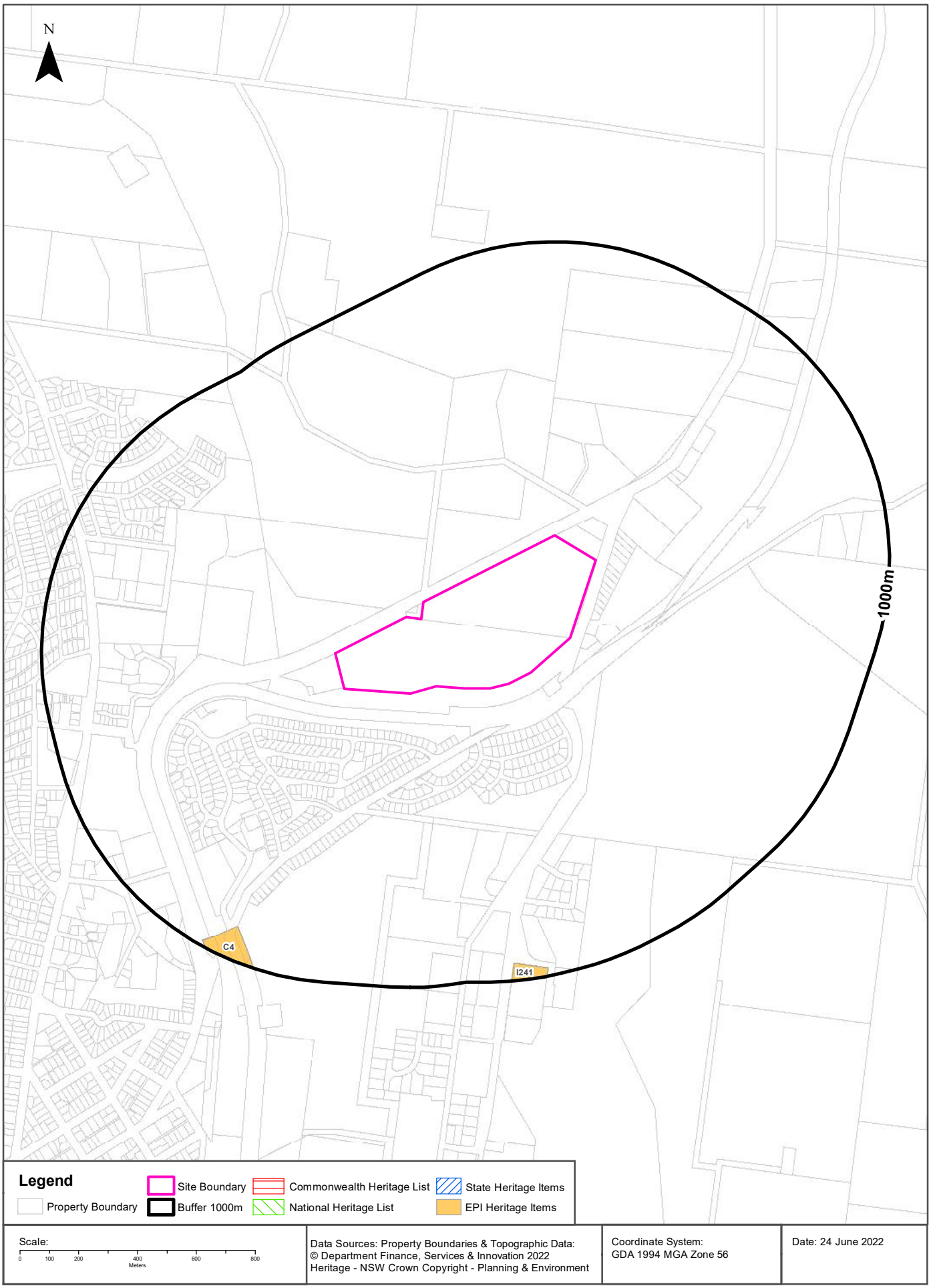
Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
R2	Low Density Residential		Cooma-Monaro Local Environmental Plan 2013	25/10/2013	25/10/2013	15/08/2014		0m	On-site
SP2	Infrastructure	Classified Road	Cooma-Monaro Local Environmental Plan 2013	25/10/2013	25/10/2013	15/08/2014		0m	West
R5	Large Lot Residential		Cooma-Monaro Local Environmental Plan 2013	25/10/2013	25/10/2013	15/08/2014		0m	North East
SP2	Infrastructure	Electricity Substation	Cooma-Monaro Local Environmental Plan 2013	25/10/2013	25/10/2013	15/08/2014		0m	West
R5	Large Lot Residential		Cooma-Monaro Local Environmental Plan 2013	25/10/2013	25/10/2013	15/08/2014		41m	North West
RE1	Public Recreation		Cooma-Monaro Local Environmental Plan 2013	25/10/2013	25/10/2013	15/08/2014		41m	North
SP2	Infrastructure	Rail Infrastructure Facilities	Cooma-Monaro Local Environmental Plan 2013	25/10/2013	25/10/2013	15/08/2014		60m	South
R2	Low Density Residential		Cooma-Monaro Local Environmental Plan 2013	25/10/2013	25/10/2013	15/08/2014		101m	South West
R5	Large Lot Residential		Cooma-Monaro Local Environmental Plan 2013	25/10/2013	25/10/2013	15/08/2014		117m	North East
RE1	Public Recreation		Cooma-Monaro Local Environmental Plan 2013	25/10/2013	25/10/2013	15/08/2014		126m	South East
RU1	Primary Production		Cooma-Monaro Local Environmental Plan 2013	25/10/2013	25/10/2013	15/08/2014		170m	North
RE1	Public Recreation		Cooma-Monaro Local Environmental Plan 2013	25/10/2013	25/10/2013	15/08/2014		189m	South
RE1	Public Recreation		Cooma-Monaro Local Environmental Plan 2013	25/10/2013	25/10/2013	15/08/2014		238m	West
R5	Large Lot Residential		Cooma-Monaro Local Environmental Plan 2013	25/10/2013	25/10/2013	15/08/2014		288m	East
RE1	Public Recreation		Cooma-Monaro Local Environmental Plan 2013	25/10/2013	25/10/2013	15/08/2014		380m	South West
RE1	Public Recreation		Cooma-Monaro Local Environmental Plan 2013	25/10/2013	25/10/2013	15/08/2014		432m	West
IN1	General Industrial		Cooma-Monaro Local Environmental Plan 2013	25/10/2013	25/10/2013	15/08/2014		448m	South
E2	Environmental Conservation		Cooma-Monaro Local Environmental Plan 2013	25/10/2013	25/10/2013	15/08/2014		448m	South West
R2	Low Density Residential		Cooma-Monaro Local Environmental Plan 2013	25/10/2013	25/10/2013	15/08/2014		468m	West
E4	Environmental Living		Cooma-Monaro Local Environmental Plan 2013	25/10/2013	25/10/2013	15/08/2014		489m	North
SP2	Infrastructure	Cemetery and Crematorium	Cooma-Monaro Local Environmental Plan 2013	25/10/2013	25/10/2013	15/08/2014		513m	East
R1	General Residential		Cooma-Monaro Local Environmental Plan 2013	25/10/2013	25/10/2013	15/08/2014		545m	West
RE2	Private Recreation		Cooma-Monaro Local Environmental Plan 2013	25/10/2013	25/10/2013	15/08/2014		547m	South West
B4	Mixed Use		Cooma-Monaro Local Environmental Plan 2013	25/10/2013	25/10/2013	15/08/2014		556m	South West
RE1	Public Recreation		Cooma-Monaro Local Environmental Plan 2013	25/10/2013	25/10/2013	15/08/2014		561m	South West
RE1	Public Recreation		Cooma-Monaro Local Environmental Plan 2013	25/10/2013	25/10/2013	15/08/2014		576m	South West
SP2	Infrastructure	Cemetery	Cooma-Monaro Local Environmental Plan 2013	25/10/2013	25/10/2013	15/08/2014		616m	West
RU1	Primary Production		Cooma-Monaro Local Environmental Plan 2013	25/10/2013	25/10/2013	15/08/2014		730m	South East

Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
SP2	Infrastructure	Water Pumping Station	Cooma-Monaro Local Environmental Plan 2013	25/10/2013	25/10/2013	15/08/2014		742m	South
RE1	Public Recreation		Cooma-Monaro Local Environmental Plan 2013	25/10/2013	25/10/2013	15/08/2014		837m	West
RE1	Public Recreation		Cooma-Monaro Local Environmental Plan 2013	25/10/2013	25/10/2013	15/08/2014		852m	West
B1	Neighbourhood Centre		Cooma-Monaro Local Environmental Plan 2013	25/10/2013	25/10/2013	15/08/2014		876m	West
RE1	Public Recreation		Cooma-Monaro Local Environmental Plan 2013	25/10/2013	25/10/2013	15/08/2014		877m	West
RE1	Public Recreation		Cooma-Monaro Local Environmental Plan 2013	25/10/2013	25/10/2013	15/08/2014		879m	North West
B4	Mixed Use		Cooma-Monaro Local Environmental Plan 2013	25/10/2013	25/10/2013	15/08/2014		901m	West
RE1	Public Recreation		Cooma-Monaro Local Environmental Plan 2013	25/10/2013	25/10/2013	15/08/2014		908m	West
RE1	Public Recreation		Cooma-Monaro Local Environmental Plan 2013	25/10/2013	25/10/2013	15/08/2014		917m	West
RE2	Private Recreation		Cooma-Monaro Local Environmental Plan 2013	25/10/2013	25/10/2013	15/08/2014		940m	South West
R2	Low Density Residential		Cooma-Monaro Local Environmental Plan 2013	25/10/2013	25/10/2013	15/08/2014		952m	South West
RE1	Public Recreation		Cooma-Monaro Local Environmental Plan 2013	25/10/2013	25/10/2013	15/08/2014		972m	West

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Heritage Items

Monaro Highway, Cooma, NSW 2630



Heritage

Monaro Highway, Cooma, NSW 2630

Commonwealth Heritage List

What are the Commonwealth Heritage List Items located within the dataset buffer?

Place Id	Name	Address	Place File No	Class	Status	Register Date	Distance	Direction
N/A	No records in buffer							

Heritage Data Source: Australian Government Department of the Environment and Energy - Heritage Branch
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National Heritage List

What are the National Heritage List Items located within the dataset buffer?
Note. Please click on Place Id to activate a hyperlink to online website.

Place Id	Name	Address	Place File No	Class	Status	Register Date	Distance	Direction
N/A	No records in buffer							

Heritage Data Source: Australian Government Department of the Environment and Energy - Heritage Branch
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State Heritage Register - Curtilages

What are the State Heritage Register Items located within the dataset buffer?

Map Id	Name	Address	LGA	Listing Date	Listing No	Plan No	Distance	Direction
N/A	No records in buffer							

Heritage Data Source: NSW Crown Copyright - Office of Environment & Heritage
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Environmental Planning Instrument - Heritage

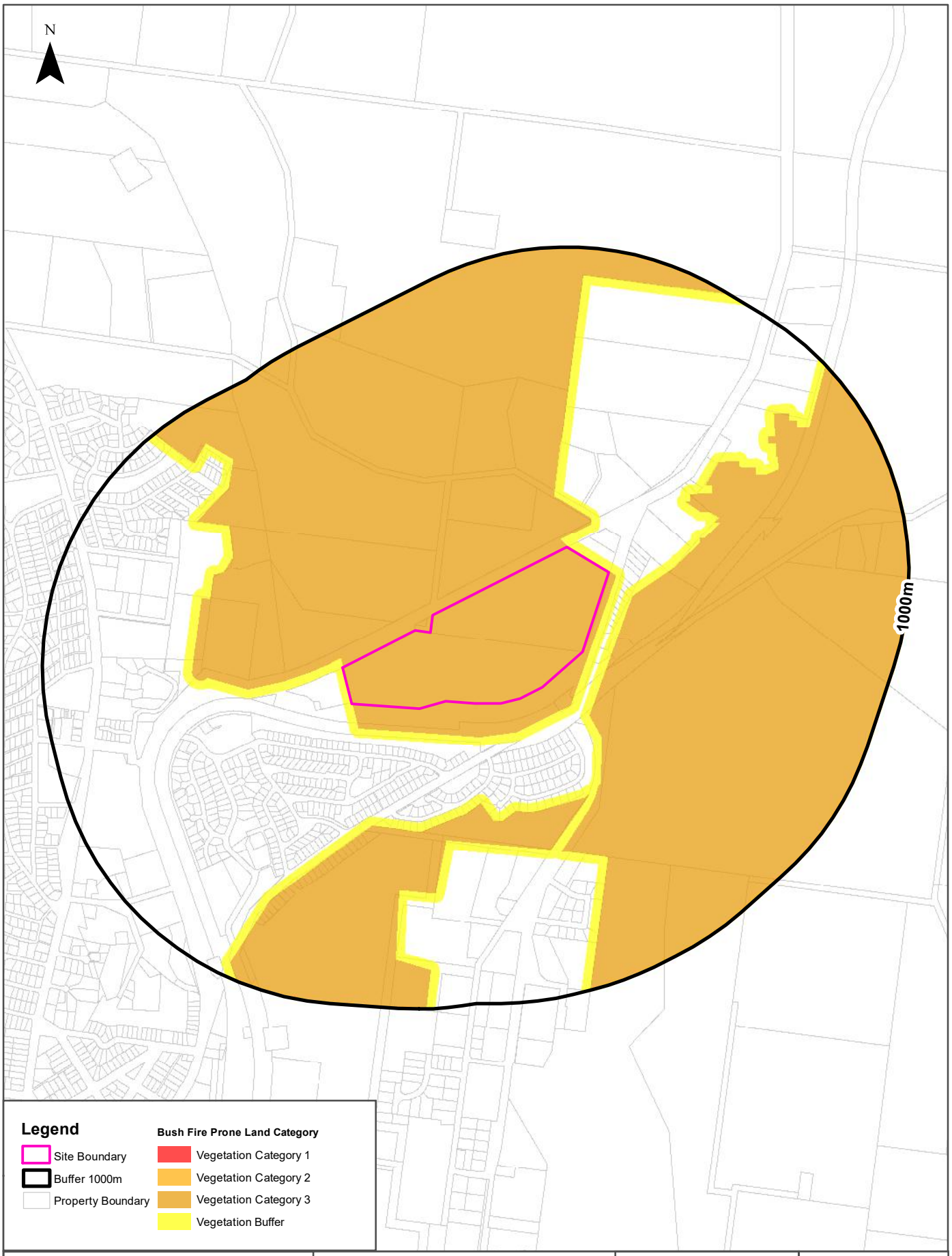
What are the EPI Heritage Items located within the dataset buffer?

Map Id	Name	Classification	Significance	EPI Name	Published Date	Commenced Date	Currency Date	Distance	Direction
C4	Cooma Railway Precinct	Conservation Area - General	State	Cooma-Monaro Local Environmental Plan 2013	25/10/2013	25/10/2013	25/10/2013	886m	South West
I241	Woolshed	Item - General	Local	Cooma-Monaro Local Environmental Plan 2013	25/10/2013	25/10/2013	25/10/2013	938m	South

Heritage Data Source: NSW Crown Copyright - Planning & Environment
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Natural Hazards - Bush Fire Prone Land

Monaro Highway, Cooma, NSW 2630



Data Sources: Bush Fire Prone Land: © NSW Rural Fire Service 2022. Property Boundaries: © Department Finance, Services & Innovation 2022

Coordinate System: GDA 1994 MGA Zone 56

Date: 24 June 2022

Natural Hazards

Monaro Highway, Cooma, NSW 2630

Bush Fire Prone Land

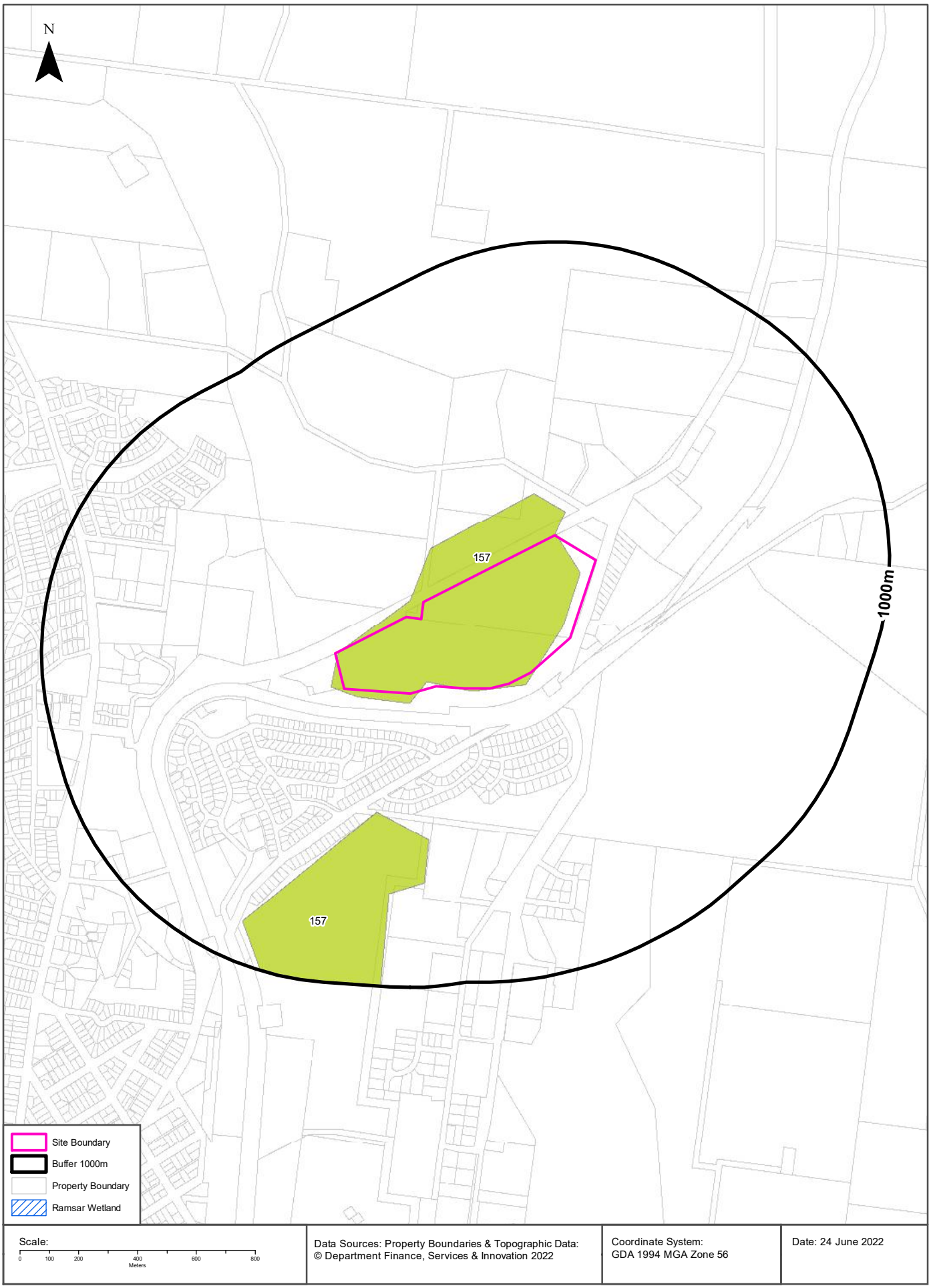
What are the nearest Bush Fire Prone Land Categories that exist within the dataset buffer?

Bush Fire Prone Land Category	Distance	Direction
Vegetation Category 3	0m	On-site
Vegetation Buffer	0m	On-site

NSW Bush Fire Prone Land - © NSW Rural Fire Service under Creative Commons 4.0 International Licence

Ecological Constraints - Vegetation & Ramsar Wetlands

Monaro Highway, Cooma, NSW 2630



Ecological Constraints

Monaro Highway, Cooma, NSW 2630

Vegetation of the Southern Forests

What vegetation of the Southern Forests exists within the dataset buffer?

Veg Code	Formation	Class	Group	Distance	Direction
157	06 Grassy Woodlands/Grasslands	06d ST Temperate Grasslands	ACT-Monaro Dry Grassland - Bothriochloa macra	0m	On-site

Vegetation of the Southern Forests: NSW Office of Environment and Heritage
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Ramsar Wetlands

What Ramsar Wetland areas exist within the dataset buffer?

Map Id	Ramsar Name	Wetland Name	Designation Date	Source	Distance	Direction
N/A	No records in buffer					

Ramsar Wetlands Data Source: © Commonwealth of Australia - Department of Agriculture, Water and the Environment

Ecological Constraints

Monaro Highway, Cooma, NSW 2630

Groundwater Dependent Ecosystems Atlas

Type	GDE Potential	Geomorphology	Ecosystem Type	Aquifer Geology	Distance	Direction
N/A	No records in buffer					

Groundwater Dependent Ecosystems Atlas Data Source: The Bureau of Meteorology
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Ecological Constraints

Monaro Highway, Cooma, NSW 2630

Inflow Dependent Ecosystems Likelihood

Type	IDE Likelihood	Geomorphology	Ecosystem Type	Aquifer Geology	Distance	Direction
N/A	No records in buffer					

Inflow Dependent Ecosystems Likelihood Data Source: The Bureau of Meteorology
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Ecological Constraints

Monaro Highway, Cooma, NSW 2630

NSW BioNet Atlas

Species on the NSW BioNet Atlas that have a NSW or federal conservation status, a NSW sensitivity status, or are listed under a migratory species agreement, and are within 10km of the site?

Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Animalia	Amphibia	Litoria aurea	Green and Golden Bell Frog	Endangered	Not Sensitive	Vulnerable	
Animalia	Amphibia	Litoria verreauxii alpina	Alpine Tree Frog	Endangered	Not Sensitive	Vulnerable	
Animalia	Aves	Apus pacificus	Fork-tailed Swift	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Artamus cyanopterus cyanopterus	Dusky Woodswallow	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Callocephalon fimbriatum	Gang-gang Cockatoo	Vulnerable	Category 3	Endangered	
Animalia	Aves	Chthonicola sagittata	Speckled Warbler	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Circus assimilis	Spotted Harrier	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Climacteris picumnus victoriae	Brown Treecreeper (eastern subspecies)	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Daphoenositta chrysoptera	Varied Sittella	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Glossopsitta pusilla	Little Lorikeet	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Haliaeetus leucogaster	White-bellied Sea-Eagle	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Hieraaetus morphnoides	Little Eagle	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Hirundapus caudacutus	White-throated Needletail	Not Listed	Not Sensitive	Vulnerable	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Lophoictinia isura	Square-tailed Kite	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Melanodryas cucullata cucullata	Hooded Robin (south-eastern form)	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Ninox connivens	Barking Owl	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Pachycephala olivacea	Olive Whistler	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Petroica boodang	Scarlet Robin	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Petroica phoenicea	Flame Robin	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Stagonopleura guttata	Diamond Firetail	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Petaurus norfolcensis	Squirrel Glider	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Phascolarctos cinereus	Koala	Endangered	Not Sensitive	Endangered	
Animalia	Mammalia	Pteropus poliocephalus	Grey-headed Flying-fox	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Reptilia	Aprasia parapulchella	Pink-tailed Legless Lizard	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Reptilia	Delma impar	Striped Legless Lizard	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Reptilia	Suta flagellum	Little Whip Snake	Vulnerable	Not Sensitive	Not Listed	

Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Animalia	Reptilia	Tympanocryptis osbornei	Monaro Grassland Earless Dragon	Endangered	Not Sensitive	Not Listed	
Animalia	Reptilia	Varanus rosenbergi	Rosenberg's Goanna	Vulnerable	Not Sensitive	Not Listed	
Plantae	Flora	Calotis glandulosa	Mauve Burr-daisy	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Dodonaea procumbens	Creeping Hop-bush	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Eucalyptus aggregata	Black Gum	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Lepidium hyssopifolium	Aromatic Peppercress	Endangered	Not Sensitive	Endangered	
Plantae	Flora	Leucochrysum albicans var. tricolor	Hoary Sunray	Not Listed	Not Sensitive	Endangered	
Plantae	Flora	Rutidosis leiolepis	Monaro Golden Daisy	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Swainsona sericea	Silky Swainson-pea	Vulnerable	Not Sensitive	Not Listed	

Data does not include NSW category 1 sensitive species.
NSW BioNet: © State of NSW and Office of Environment and Heritage

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Where Lotsearch has had to georeference features from supplied addresses, a location confidence has been assigned to the data record. This indicates a confidence to the positional accuracy of the feature. Where applicable, a code is given under the field heading “LC” or “LocConf”. These codes lookup to the following location confidences:

LC Code	Location Confidence
Premise Match	Georeferenced to the site location / premise or part of site
Area Match	Georeferenced to an approximate or general area
Road Match	Georeferenced to a road or rail corridor
Road Intersection	Georeferenced to a road intersection
Buffered Point	A point feature buffered to x metres
Adjacent Match	Land adjacent to a georeferenced feature
Network of Features	Georeferenced to a network of features
Suburb Match	Georeferenced to a suburb boundary
As Supplied	Spatial data supplied by provider

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Appendix E

Inputs
Select contaminant from list below
As
Below needed to calculate fresh and aged ACLs
Below needed to calculate fresh and aged ABCs
or for fresh ABCs only
or for aged ABCs only

Outputs		
Land use	Arsenic generic EILs (mg contaminant/kg dry soil)	
	Fresh	Aged
National parks and areas of high conservation value	20	40
Urban residential and open public spaces	50	100
Commercial and industrial	80	160

Inputs
Select contaminant from list below
Cr_III
Below needed to calculate fresh and aged ACLs
Enter % clay (values from 0 to 100%)
11
Below needed to calculate fresh and aged ABCs
Measured background concentration (mg/kg). Leave blank if no measured value
or for fresh ABCs only
Enter iron content (aqua regia method) (values from 0 to 50%) to obtain estimate of background concentration
7
or for aged ABCs only
Enter State (or closest State)
NSW
Enter traffic volume (high or low)
low

Outputs		
Land use	Cr III soil-specific EILs (mg contaminant/kg dry soil)	
	Fresh	Aged
National parks and areas of high conservation value	130	140
Urban residential and open public spaces	240	420
Commercial and industrial	350	690

Inputs
Select contaminant from list below
Cu
Below needed to calculate fresh and aged ACLs
Enter cation exchange capacity (silver thiourea method) (values from 0 to 100 cmolc/kg dwt)
28
Enter soil pH (calcium chloride method) (values from 1 to 14)
6.1
Enter organic carbon content (%OC) (values from 0 to 50%)
1
Below needed to calculate fresh and aged ABCs
Measured background concentration (mg/kg). Leave blank if no measured value
or for fresh ABCs only
Enter iron content (aqua regia method) (values from 0 to 50%) to obtain estimate of background concentration
7
or for aged ABCs only
Enter State (or closest State)
NSW
Enter traffic volume (high or low)
low

Outputs		
Land use	Cu soil-specific EILs (mg contaminant/kg dry soil)	
	Fresh	Aged
National parks and areas of high conservation value	75	85
Urban residential and open public spaces	130	230
Commercial and industrial	180	320

Inputs
Select contaminant from list below
DDT
Below needed to calculate fresh and aged ACLs
Below needed to calculate fresh and aged ABCs
or for fresh ABCs only
or for aged ABCs only

Outputs		
Land use	DDT generic EILs (mg contaminant/kg dry soil)	
	Fresh	Aged
National parks and areas of high conservation value	3	3
Urban residential and open public spaces	180	180
Commercial and industrial	640	640

Inputs
Select contaminant from list below
Naphthalene
Below needed to calculate fresh and aged ACLs
Below needed to calculate fresh and aged ABCs
or for fresh ABCs only
or for aged ABCs only

Outputs		
Land use	Naphthalene generic EILs (mg contaminant/kg dry soil)	
	Fresh	Aged
National parks and areas of high conservation value	10	10
Urban residential and open public spaces	170	170
Commercial and industrial	370	370

Inputs
Select contaminant from list below
Ni
Below needed to calculate fresh and aged ACLs
Enter cation exchange capacity (silver thiourea method) (values from 0 to 100 cmolc/kg dwt)
28
Below needed to calculate fresh and aged ABCs
Measured background concentration (mg/kg). Leave blank if no measured value
or for fresh ABCs only
Enter iron content (aqua regia method) (values from 0 to 50%) to obtain estimate of background concentration
7
or for aged ABCs only
Enter State (or closest State)
NSW
Enter traffic volume (high or low)
low

Outputs		
Land use	Ni soil-specific EILs (mg contaminant/kg dry soil)	
	Fresh	Aged
National parks and areas of high conservation value	40	60
Urban residential and open public spaces	130	340
Commercial and industrial	230	580

Inputs
Select contaminant from list below
Pb
Below needed to calculate fresh and aged ACLs
Below needed to calculate fresh and aged ABCs
or for fresh ABCs only
or for aged ABCs only

Outputs		
Land use	Lead generic EILs (mg contaminant/kg dry soil)	
	Fresh	Aged
National parks and areas of high conservation value	110	470
Urban residential and open public spaces	270	1100
Commercial and industrial	440	1800

Inputs
Select contaminant from list below
Zn
Below needed to calculate fresh and aged ACLs
Enter cation exchange capacity (silver thiourea method) (values from 0 to 100 cmolc/kg dwt)
28
Enter soil pH (calcium chloride method) (values from 1 to 14)
6.1
Below needed to calculate fresh and aged ABCs
Measured background concentration (mg/kg). Leave blank if no measured value
or for fresh ABCs only
Enter iron content (aqua regia method) (values from 0 to 50%) to obtain estimate of background concentration
7
or for aged ABCs only
Enter State (or closest State)
NSW
Enter traffic volume (high or low)
low

Outputs		
Land use	Zn soil-specific EILs (mg contaminant/kg dry soil)	
	Fresh	Aged
National parks and areas of high conservation value	75	170
Urban residential and open public spaces	200	510
Commercial and industrial	300	750

Appendix F

Testpit Logs

ianterra consulting	**BORE LOG** **TP1**	**PROJECT NUMBER:** P22105 **CLIENT NAME:** Stantec Australia Pty Ltd **ADDRESS:** Monaro Highway Cooma 2630

PROJECT NAME: Detailed Site Investigation	**COORDINATE SYSTEM:** GDA2020 / MGA zone 55
CONTRACTOR: Ground Control ACT Pty Ltd	**EASTING:** 693,290.0357 mE
DRILL METHOD: Excavator	**NORTHING:** 5,990,079.158 mN
DIAMETER: N.A. (Test Pi)	**ELEVATION:** 819.0 AHD
HOLE DEPTH: 0.75 m	**DATE DRILLED:** 15/09/2022

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Topsoil*	TP1 0.0-0.1		Y		ML	**(0.0) Silty CLAY:** dark brown-red brown, moist, soft	Topsoil: grassed surface Traces of well rounded quartz pebbles	819
	Natural (Monaro Volcanics)					CL	**(0.1) CLAY:** red brown, moist, firm	Basalt cobbles	
0.5		TP1 0.5-0.6		N					
1.0								EOH @ 0.75m (Natura) Refusal on rock	818

Comments	**LOGGED BY** C.Gunton **CHECKED BY** J.Lim

ianterra consulting	**BORE LOG** **TP2**	**PROJECT NUMBER:** P22105 **CLIENT NAME:** Stantec Australia Pty Ltd **ADDRESS:** Monaro Highway Cooma 2630

PROJECT NAME:	Detailed Site Investigation	**COORDINATE SYSTEM:**	GDA2020 / MGA zone 55
CONTRACTOR:	Ground Control ACT Pty Ltd	**EASTING:**	693,315.4783 mE
DRILL METHOD:	Excavator	**NORTHING:**	5,990,009.521 mN
DIAMETER:	N.A. (Test Pi)	**ELEVATION:**	820.0AHD
HOLE DEPTH:	0.8 m	**DATE DRILLED:**	15/09/2022

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Topsoil*	TP20.0-0.1		Y		ML	**(0.0) Silty CLAY:** dark brown-red brown, moist, soft-firm	Topsoil: grassed surface	820
	Natural (Monaro Volcanics)					CL	**(0.1) CLAY:** dark red brown, moist, firm	Basalt cobble fragments	
0.5		TP2 0.5-0.6		N					
								EOH @ 0.8m (Natrual) Refusal on rock	
1.0									819

Comments	**LOGGED BY** C.Gunton **CHECKED BY** J.Lim

lanterra consulting	**BORE LOG** **TP3**	**PROJECT NUMBER:** P22105 **CLIENT NAME:** Stantec Australia Pty Ltd **ADDRESS:** Monaro Highway Cooma 2630

PROJECT NAME: Detailed Site Investigation	**COORDINATE SYSTEM:** GDA2020 / MGA zone 55
CONTRACTOR: Ground Control ACT Pty Ltd	**EASTING:** 693,271.8143 mE
DRILL METHOD: Excavator	**NORTHING:** 5,989,903.007 mN
DIAMETER: N.A. (Test Pi)	**ELEVATION:** 822.0AHD
HOLE DEPTH: 0.7 m	**DATE DRILLED:** 15/09/2022

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Topsoil*	TP3 0.0-0.1		Y		ML	**(0.0) Silty CLAY:** dark brown-red brown, moist, firm	Topsoil: grassed surface Traces of angular, gravel-sized volcanic rock	822
	Natural (Monaro Volcanics)					CL	**(0.1) CLAY:**red brown, moist, firm	Traces of angular-subrounded, gravel-cobble sized volcanic rock fragments (<10cm)	
0.5		TP3 0.5-0.6		N					
0.7								EOH @ 0.7m (Natural) Refusal on rock	
1.0									821

Comments	**LOGGED BY** C.Gunton **CHECKED BY** J.Lim

ianterra consulting	**BORE LOG** **TP4**	**PROJECT NUMBER:** P22105 **CLIENT NAME:** Stantec Australia Pty Ltd **ADDRESS:** Monaro Highway Cooma 2630

PROJECT NAME: Detailed Site Investigation	**COORDINATE SYSTEM:** GDA2020 / MGA zone 55
CONTRACTOR: Ground Control ACT Pty Ltd	**EASTING:** 693,211.9923 mE
DRILL METHOD: Excavator	**NORTHING:** 5,989,866.769 mN
DIAMETER: N.A. (Test Pi)	**ELEVATION:** 825.0AHD
HOLE DEPTH: 1.0 m	**DATE DRILLED:** 15/09/2022

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Topsoil*	TP40.0-0.1		Y		ML	**(0.0) Silty CLAY:** dark brown-red brown, moist, soft-firm	Traces of angular gravel	825
	Natural (Monaro Volcanics)					GC	**(0.1) Sandy Gravelly CLAY:** red brown, moist, soft	Fine-grained, angular gravel	
0.5		TP40.5-0.6		N					
						CL	**(0.6) CLAY:** orange brown, moist, firm		
		TP41.0-1.1		N					
1.0								EOH @ 1.0m (Natural) Refusal on rock	824

Comments	**LOGGED BY** C.Gunton **CHECKED BY** J.Lim

lanterra consulting	**BORE LOG** **TP5**	**PROJECT NUMBER:** P22105 **CLIENT NAME:** Stantec Australia Pty Ltd **ADDRESS:** Monaro Highway Cooma 2630

PROJECT NAME: Detailed Site Investigation	**COORDINATE SYSTEM:** GDA2020 / MGA zone 55
CONTRACTOR: Ground Control ACT Pty Ltd	**EASTING:** 693,139.3841 mE
DRILL METHOD: Excavator	**NORTHING:** 5,989,833.182 mN
DIAMETER: N.A. (Test Pi)	**ELEVATION:** 832.0AHD
HOLE DEPTH: 0.7 m	**DATE DRILLED:** 15/09/2022

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Topsoil*	TP5 0.0-0.1		Y		GC	**(0.0) Gravelly CLAY:** dark brown-red brown, moist, soft-firm	Topsoil: grassed surface Cobble-sized volcanic rocks on surface	832
	Natural (Monaro Volcanics)					GC	**(0.1) Gravelly CLAY:** red brown, moist, firm	Traces of angular, cobble-sized volcanic rock (<20cm)	
0.5		TP5 0.5-0.6		N		GC	**(0.5) Gravelly CLAY:** orange brown, moist, firm		
								EOH @ 0.7m (Natural) Refusal on rock	
1.0									831

Sample location on the peak of the hill

LOGGED BY C.Gunton

CHECKED BY J.Lim

lanterra consulting	**BORE LOG** **TP6**	**PROJECT NUMBER:** P22105 **CLIENT NAME:** Stantec Australia Pty Ltd **ADDRESS:** Monaro Highway Cooma 2630

PROJECT NAME: Detailed Site Investigation	**COORDINATE SYSTEM:** GDA2020 / MGA zone 55
CONTRACTOR: Ground Control ACT Pty Ltd	**EASTING:** 693,033.1894 mE
DRILL METHOD: Excavator	**NORTHING:** 5,989,872.204 mN
DIAMETER: N.A. (Test Pi)	**ELEVATION:** 834.0AHD
HOLE DEPTH: 0.9 m	**DATE DRILLED:** 15/09/2022

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Topsoil*	TP6 0.0-0.1		Y		GC	**(0.0) Gravelly Sandy CLAY:** dark brown, moist, firm	Topsoil: grassed surface Traces of angular, coarse-grained, gravel-sized volcanic rock	834
	Natural (Monaro Volcanics)					GC	**(0.1) Sandy Clayey GRAVEL:** grey brown, dry-moist, hard	Highly fractured volcanic bedrock	
0.5		TP6 0.5-0.6		N					
						GC	**(0.8) Sandy Clayey GRAVEL:** grey brown, dry-moist, hard	Traces of red clay	
								EOH @ 0.9m (Natural) Refusal on rock	
1.0									833

Comments	**LOGGED BY** C.Gunton **CHECKED BY** J.Lim

lanterra consulting	**BORE LOG** **TP7**	**PROJECT NUMBER:** P22105 **CLIENT NAME:** Stantec Australia Pty Ltd **ADDRESS:** Monaro Highway Cooma 2630

PROJECT NAME: Detailed Site Investigation	**COORDINATE SYSTEM:** GDA2020 / MGA zone 55
CONTRACTOR: Ground Control ACT Pty Ltd	**EASTING:** 693,105.7976 mE
DRILL METHOD: Excavator	**NORTHING:** 5,989,905.79 mN
DIAMETER: N.A. (Test Pi)	**ELEVATION:** 834.0AHD
HOLE DEPTH: 0.6 m	**DATE DRILLED:** 15/09/2022

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Natural (Monaro Volcanics)*	TP7 0.0-0.1		N		GC	**(0.0) Cobbly CLAY:** dark brown-red brown, moist, soft-firm	No topsoil present Abundant rounded, cobble-sized, volcanic rock fragments	834
0.5		TP7 0.5-0.6		N					
								EOH @ 0.6m (Natural) Refusal on rock	
1.0									833

Comments	**LOGGED BY** C.Gunton **CHECKED BY** J.Lim

lanterra consulting	**BORE LOG** **TP8**	**PROJECT NUMBER:** P22105 **CLIENT NAME:** Stantec Australia Pty Ltd **ADDRESS:** Monaro Highway Cooma 2630

PROJECT NAME:	Detailed Site Investigation	**COORDINATE SYSTEM:**	GDA2020 / MGA zone 55
CONTRACTOR:	Ground Control ACT Pty Ltd	**EASTING:**	693,178.4058 mE
DRILL METHOD:	Excavator	**NORTHING:**	5,989,939.377 mN
DIAMETER:	N.A. (Test Pi)	**ELEVATION:**	823.0AHD
HOLE DEPTH:	0.7 m	**DATE DRILLED:**	15/09/2022

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Natural (Monaro Volcanics)*	TP8 0.0-0.1		Y		GC	**(0.0) Cobbly Gravelly CLAY:** dark brown, moist, firm	No topsoil present Volcanic cobbles (<15cm) Highly fractured bedrock	823
0.5		TP8 0.5-0.6		N					
								EOH @ 0.7m (Natural) Refusal on rock	
1.0									822

Comments	**LOGGED BY** C.Gunton **CHECKED BY** J.Lim

lanterra consulting	**BORE LOG** **TP9**	**PROJECT NUMBER:** P22105 **CLIENT NAME:** Stantec Australia Pty Ltd **ADDRESS:** Monaro Highway Cooma 2630

PROJECT NAME: Detailed Site Investigation	**COORDINATE SYSTEM:** GDA2020 / MGA zone 55
CONTRACTOR: Ground Control ACT Pty Ltd	**EASTING:** 693,251.014 mE
DRILL METHOD: Excavator	**NORTHING:** 5,989,972.963 mN
DIAMETER: N.A. (Test Pi)	**ELEVATION:** 820.0AHD
HOLE DEPTH: 0.8 m	**DATE DRILLED:** 15/09/2022

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Topsoil*	TP9 0.0-0.1		N		ML	**(0.0) Silty CLAY:** dark brown-red brown, moist, soft	Topsoil: grassed surface	820
	Natural (Monaro Volcanics)					GC	**(0.1) Gravelly CLAY:** red brown, moist, firm	Traces of volcanic cobbles (<10cm) Highly fractured bedrock	
0.5		TP9 0.5-0.6		N					
								EOH @ 0.8m (Natural) Refusal on rock	
1.0									819

Comments	**LOGGED BY** C.Gunton **CHECKED BY** J.Lim

ianterra consulting	**BORE LOG** **TP10**	**PROJECT NUMBER:** P22105 **CLIENT NAME:** Stantec Australia Pty Ltd **ADDRESS:** Monaro Highway Cooma 2630

PROJECT NAME: Detailed Site Investigation	**COORDINATE SYSTEM:** GDA2020 / MGA zone 55
CONTRACTOR: Ground Control ACT Pty Ltd	**EASTING:** 693,217.4275 mE
DRILL METHOD: Excavator	**NORTHING:** 5,990,045.571 mN
DIAMETER: N.A. (Test Pi)	**ELEVATION:** 818.0 AHD
HOLE DEPTH: 0.9 m	**DATE DRILLED:** 15/09/2022

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Topsoil*	TP10 0.0-0.1		Y		ML	**(0.0) Silty CLAY:** dark brown-red brown, moist, firm	Topsoil: grassed surface	818
	Natural (Monaro Volcanics)					SC	**(0.1) Sandy CLAY:** red brown, moist, firm	Traces of gravel-sized volcanic rocks	
0.5		TP10 0.5-0.6		N					
						GC	**(0.6) Gravelly Sandy CLAY:** brown-orange brown, moist, firm-hard	Highly fractured bedrock	
								EOH @ 0.9m (Natural) Refusal on rock	
1.0									817

Comments	**LOGGED BY** C.Gunton **CHECKED BY** J.Lim

ianterra consulting	**BORE LOG** **TP11**	**PROJECT NUMBER:** P22105 **CLIENT NAME:** Stantec Australia Pty Ltd **ADDRESS:** Monaro Highway Cooma 2630

PROJECT NAME:	Detailed Site Investigation	**COORDINATE SYSTEM:**	GDA2020 / MGA zone 55
CONTRACTOR:	Ground Control ACT Pty Ltd	**EASTING:**	693,183.841 mE
DRILL METHOD:	Excavator	**NORTHING:**	5,990,118.18 mN
DIAMETER:	N.A. (Test Pi)	**ELEVATION:**	818.0AHD
HOLE DEPTH:	0.8 m	**DATE DRILLED:**	15/09/2022

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Topsoil*	TP11 0.0-0.1		Y		ML	**(0.0) Silty CLAY:**dark brown, moist, soft-firm	Topsoil: grassed surface	818
	Natural (Monaro Volcanics)					GC	**(0.1) Gravelly Clayey SAND:** dark brown-red brown, moist, soft-firm	Extremely fractured bedrock Traces of cobbles (<10cm)	
0.5		TP11 0.5-0.6		N					
						GC	**(0.6) Gravelly Clayey SAND:** dark brown-red brown, moist, soft-firm	Extremely fractured bedrock Abundant cobbles	
								EOH @ 0.8m (Natural) Refusal on rock	
1.0									817

Comments	**LOGGED BY** C.Gunton **CHECKED BY** J.Lim

ianterra consulting	**BORE LOG** **TP12**	**PROJECT NUMBER:** P22105 **CLIENT NAME:** Stantec Australia Pty Ltd **ADDRESS:** Monaro Highway Cooma 2630

PROJECT NAME: Detailed Site Investigation	**COORDINATE SYSTEM:** GDA2020 / MGA zone 55
CONTRACTOR: Ground Control ACT Pty Ltd	**EASTING:** 693,111.2328 mE
DRILL METHOD: Excavator	**NORTHING:** 5,990,084.593 mN
DIAMETER: N.A. (Test Pi)	**ELEVATION:** 820.0AHD
HOLE DEPTH: 0.75 m	**DATE DRILLED:** 15/09/2022

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Topsoil*	TP12 0.0-0.1		Y		ML	**(0.0) Silty CLAY:**dark brown, moist, soft-firm		820
	Natural (Monaro Volcanics)					CL	**(0.1) CLAY:**red brown, moist, firm		
0.5		TP12 0.5-0.6		N		GC	**(0.4) Gravelly CLAY:** brown-red brown, moist, firm	Volcanic gravel on top of extremely fractured bedrock	
								EOH @ 0.75m (Natural) Refusal on rock	
1.0									819

Comments	**LOGGED BY** C.Gunton **CHECKED BY** J.Lim

ianterra consulting	**BORE LOG** **TP13**	**PROJECT NUMBER:** P22105 **CLIENT NAME:** Stantec Australia Pty Ltd **ADDRESS:** Monaro Highway Cooma 2630

PROJECT NAME:	Detailed Site Investigation	**COORDINATE SYSTEM:**	GDA2020 / MGA zone 55
CONTRACTOR:	Ground Control ACT Pty Ltd	**EASTING:**	693,144.8193 mE
DRILL METHOD:	Excavator	**NORTHING:**	5,990,011.985 mN
DIAMETER:	N.A. (Test Pi)	**ELEVATION:**	823.0AHD
HOLE DEPTH:	1.1 m	**DATE DRILLED:**	15/09/2022

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Topsoil*	TP13 0.0-0.1		Y		ML	**(0.0) Silty CLAY:** dark brown-red brown, moist, soft-firm		823
	Natural (Monaro Volcanics)					CL	**(0.1) CLAY:** red brown, moist, soft		
0.5		TP130.5-0.6		N					
						SC	**(0.7) Sandy CLAY:** orange brown-red brown, moist, soft-firm	Traces of subangular, gravel-sized volcanic rocks (<1cm)	
1.0		TP131.0-1.1		N					822
								EOH 1.1 m (Natural) Target depth	

Comments	**LOGGED BY** C.Gunton **CHECKED BY** J.Lim

ianterra consulting	**BORE LOG** **TP14**	**PROJECT NUMBER:** P22105 **CLIENT NAME:** Stantec Australia Pty Ltd **ADDRESS:** Monaro Highway Cooma 2630

PROJECT NAME: Detailed Site Investigation	**COORDINATE SYSTEM:** GDA2020 / MGA zone 55
CONTRACTOR: Ground Control ACT Pty Ltd	**EASTING:** 693,072.2111 mE
DRILL METHOD: Excavator	**NORTHING:** 5,989,978.398 mN
DIAMETER: N.A. (Test Pi)	**ELEVATION:** 828.0AHD
HOLE DEPTH: 0.9 m	**DATE DRILLED:** 15/09/2022

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Natural (Monaro Volcanics)*	TP14 0.0-0.1		Y		GC	**(0.0) Gravelly CLAY:** dark brown, moist, firm	Traces of cobble-sized volcanics (<10cm)	828
						GC	**(0.1) Gravelly CLAY:** brown-red brown, moist, firm	Traces of angular cobbles (<10cm) Extremely fractured bedrock	
0.5		TP140.5-0.6		N					
								EOH @ 0.9m (Natural) Refusal on rock	
1.0									827

Comments	**LOGGED BY** C.Gunton **CHECKED BY** J.Lim

lanterra consulting	**BORE LOG** **TP15**	**PROJECT NUMBER:** P22105 **CLIENT NAME:** Stantec Australia Pty Ltd **ADDRESS:** Monaro Highway Cooma 2630

PROJECT NAME: Detailed Site Investigation	**COORDINATE SYSTEM:** GDA2020 / MGA zone 55
CONTRACTOR: Ground Control ACT Pty Ltd	**EASTING:** 692,999.603 mE
DRILL METHOD: Excavator	**NORTHING:** 5,989,944.812 mN
DIAMETER: N.A. (Test Pi)	**ELEVATION:** 829.0AHD
HOLE DEPTH: 0.8 m	**DATE DRILLED:** 15/09/2022

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Natural (Monaro Volcanics)*	TP15 0.0-0.1		Y		GC	**(0.0) Cobbly Gravelly CLAY:** dark brown-red brown, moist, soft-firm	No topsoil Angular-subangular cobbles (<15cm)	829
						GC	**(0.2) Gravelly Clayey SAND:** red brown, moist, firm	Extremely fractured bedrock	
0.5		TP150.5-0.6		N					
						GC	**(0.6) Gravelly Clayey SAND:** brown-orange brown, moist, firm	Extremely fractured bedrock	
								EOH @ 0.8m (Natural) Refusal on rock	
1.0									828

Comments	**LOGGED BY** C.Gunton **CHECKED BY** J.Lim

lanterra consulting	**BORE LOG** **TP16**	**PROJECT NUMBER:** P22105 **CLIENT NAME:** Stantec Australia Pty Ltd **ADDRESS:** Monaro Highway Cooma 2630

PROJECT NAME:	Detailed Site Investigation	**COORDINATE SYSTEM:**	GDA2020 / MGA zone 55
CONTRACTOR:	Ground Control ACT Pty Ltd	**EASTING:**	692,926.9948 mE
DRILL METHOD:	Excavator	**NORTHING:**	5,989,911.226 mN
DIAMETER:	N.A. (Test Pi)	**ELEVATION:**	826.0AHD
HOLE DEPTH:	1.0 m	**DATE DRILLED:**	15/09/2022

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Topsoil*	TP16 0.0-0.1		Y		GC	**(0.0) Cobbly Gravelly CLAY:** dark brown, moist, soft	Topsoil: grassed surface Cobble-sized rocks (<20cm)	826
	Natural (Monaro Volcanics)					SC	**(0.2) Sandy CLAY:** orange brown-red brown, dry-moist, firm	Extremely fractured volcanic bedrock	
0.5		TP16 0.5-0.6		N					
						GW	**(0.7) Gravelly SAND:** black brown, dry, loose	Extremely fractured bedrock	
1.0								EOH @ 1.0m (Natural) Target depth	825

Comments	**LOGGED BY** C.Gunton **CHECKED BY** J.Lim

lanterra consulting	**BORE LOG** **TP17**	**PROJECT NUMBER:** P22105 **CLIENT NAME:** Stantec Australia Pty Ltd **ADDRESS:** Monaro Highway Cooma 2630

PROJECT NAME: Detailed Site Investigation	**COORDINATE SYSTEM:** GDA2020 / MGA zone 55
CONTRACTOR: Ground Control ACT Pty Ltd	**EASTING:** 692,854.3866 mE
DRILL METHOD: Excavator	**NORTHING:** 5,989,877.639 mN
DIAMETER: N.A. (Test Pi)	**ELEVATION:** 817.0 AHD
HOLE DEPTH: 0.9 m	**DATE DRILLED:** 15/09/2022

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Natural (Monaro Volcanics)*	TP17 0.0-0.1		Y		GC	**(0.0) Gravelly Silty CLAY:** dark brown, moist, soft	Traces of subangular, cobble-sized volcanic rocks	817
						GC	**(0.2) Gravelly Clayey SAND:** dark brown-red brown, moist, firm	Extremely fractured bedrock	
0.5		TP17 0.5-0.6		N					
								EOH @ 0.9m (Natural) Refusal on rock	
1.0									816

Comments	**LOGGED BY** C.Gunton **CHECKED BY** J.Lim

ianterra consulting	**BORE LOG** **TP18**	**PROJECT NUMBER:** P22105 **CLIENT NAME:** Stantec Australia Pty Ltd **ADDRESS:** Monaro Highway Cooma 2630

PROJECT NAME: Detailed Site Investigation	**COORDINATE SYSTEM:** GDA2020 / MGA zone 55
CONTRACTOR: Ground Control ACT Pty Ltd	**EASTING:** 692,748.1919 mE
DRILL METHOD: Excavator	**NORTHING:** 5,989,916.661 mN
DIAMETER: N.A. (Test Pi)	**ELEVATION:** 814.0AHD
HOLE DEPTH: 0.7 m	**DATE DRILLED:** 15/09/2022

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Topsoil*	TP18 0.0-0.1		Y		ML	**(0.0) Silty CLAY:** dark brown-red brown, moist, firm		814
	Natural (Monaro Volcanics)					GC	**(0.1) Gravelly Sandy CLAY:** dark brown-red brown, moist, firm	Extremely fractured bedrock	
0.5		TP180.5-0.6		N					
								EOH @ 0.7m (Natural) Refusal on rock	
1.0									813

Comments	**LOGGED BY** C.Gunton **CHECKED BY** J.Lim

ianterra consulting	**BORE LOG** **TP19**	**PROJECT NUMBER:** P22105 **CLIENT NAME:** Stantec Australia Pty Ltd **ADDRESS:** Monaro Highway Cooma 2630

PROJECT NAME:	Detailed Site Investigation	**COORDINATE SYSTEM:**	GDA2020 / MGA zone 55
CONTRACTOR:	Ground Control ACT Pty Ltd	**EASTING:**	692,960.5813 mE
DRILL METHOD:	Excavator	**NORTHING:**	5,989,838.617 mN
DIAMETER:	N.A. (Test Pi)	**ELEVATION:**	830.0AHD
HOLE DEPTH:	0.7 m	**DATE DRILLED:**	15/09/2022

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Natural (Monaro Volcanics)*	TP19 0.0-0.1		Y		GC	**(0.0) Gravelly Silty CLAY:** dark brown, moist, firm	Traces of cobble-sized volcanic rocks (<8cm)	830
						GC	**(0.2) Gravelly Clayey SAND:** dark brown-red brown, moist, loose	Extremely fractured bedrock	
0.5		TP19 0.5-0.6		N					
								EOH @ 0.7m (Natural) Refusal on rock	
1.0									829

Comments	**LOGGED BY** C.Gunton **CHECKED BY** J.Lim

lanterra consulting	**BORE LOG** **TP20**	**PROJECT NUMBER:** P22105 **CLIENT NAME:** Stantec Australia Pty Ltd **ADDRESS:** Monaro Highway Cooma 2630

PROJECT NAME: Detailed Site Investigation	**COORDINATE SYSTEM:** GDA2020 / MGA zone 55
CONTRACTOR: Ground Control ACT Pty Ltd	**EASTING:** 693,066.7759 mE
DRILL METHOD: Excavator	**NORTHING:** 5,989,799.596 mN
DIAMETER: N.A. (Test Pi)	**ELEVATION:** 834.0AHD
HOLE DEPTH: 1.0 m	**DATE DRILLED:** 15/09/2022

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Topsoil*	TP200.0-0.1		Y		ML	**(0.0) Silty CLAY:** dark brown, moist, firm	Topsoil: grassed surface	834
						GC	**(0.1) Gravelly Sandy CLAY:** brown-orange brown, moist, firm		
0.5	*Natural (Monaro Volcanics)*	TP20 0.5-0.6		N		GC	**(0.4) Gravelly Clayey SAND:** red brown, moist, firm	Extremely fractured bedrock	
1.0								EOH @ 1.0m (Natural) Refusal on rock	833

Located at the top of the hill

LOGGED BY C.Gunton

CHECKED BY J.Lim

lanterra consulting	**BORE LOG** **TP21**	**PROJECT NUMBER:** P22105 **CLIENT NAME:** Stantec Australia Pty Ltd **ADDRESS:** Monaro Highway Cooma 2630

PROJECT NAME:	Detailed Site Investigation	**COORDINATE SYSTEM:**	GDA2020 / MGA zone 55
CONTRACTOR:	Ground Control ACT Pty Ltd	**EASTING:**	693,172.9706 mE
DRILL METHOD:	Excavator	**NORTHING:**	5,989,760.574 mN
DIAMETER:	N.A. (Test Pi)	**ELEVATION:**	825.0AHD
HOLE DEPTH:	1.0 m	**DATE DRILLED:**	15/09/2022

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Topsoil*	TP21 0.0-0.1		Y		ML	**(0.0) Silty CLAY:** dark brown-red brown, moist, soft-firm		825
	Natural (Monaro Volcanics)					ML	**(0.1) Silty CLAY:** red brown, moist, soft		
0.5		TP21 0.5-0.6		N					
						GC	**(0.7) Gravelly Clayey SAND:** brown-red brown, moist-wet, loose	Highly fractured bedrock	
1.0								EOH @ 1.0m (Natural) Refusal on rock	824

Comments	**LOGGED BY** C.Gunton **CHECKED BY** J.Lim

ianterra consulting	**BORE LOG** **TP22**	**PROJECT NUMBER:** P22105 **CLIENT NAME:** Stantec Australia Pty Ltd **ADDRESS:** Monaro Highway Cooma 2630

PROJECT NAME:	Detailed Site Investigation	**COORDINATE SYSTEM:**	GDA2020 / MGA zone 55
CONTRACTOR:	Ground Control ACT Pty Ltd	**EASTING:**	693,100.3624 mE
DRILL METHOD:	Excavator	**NORTHING:**	5,989,726.987 mN
DIAMETER:	N.A. (Test Pi)	**ELEVATION:**	826.0AHD
HOLE DEPTH:	1.0 m	**DATE DRILLED:**	15/09/2022

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Topsoil*	TP22 0.0-0.1		Y		ML	**(0.0) Silty CLAY:** dark brown, moist, firm	Topsoil: grassed soil	826
	Natural (Monaro Volcanics)					ML	**(0.1) Silty CLAY:** brown-yellow brown, moist, soft		
0.5		TP22 0.5-0.6		N					
						GW	**(0.8) Gravelly SAND:** dark red brown, moist, loose	Extremely fractured bedrock	
1.0								EOH @ 1.0m (Natural) Refusal on rock	825

Comments	**LOGGED BY** C.Gunton **CHECKED BY** J.Lim

ianterra consulting	**BORE LOG** **TP23**	**PROJECT NUMBER:** P22105 **CLIENT NAME:** Stantec Australia Pty Ltd **ADDRESS:** Monaro Highway Cooma 2630

PROJECT NAME: Detailed Site Investigation	**COORDINATE SYSTEM:** GDA2020 / MGA zone 55
CONTRACTOR: Ground Control ACT Pty Ltd	**EASTING:** 693,027.7542 mE
DRILL METHOD: Excavator	**NORTHING:** 5,989,693.401 mN
DIAMETER: N.A. (Test Pi)	**ELEVATION:** 826.0AHD
HOLE DEPTH: 0.8 m	**DATE DRILLED:** 15/09/2022

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Natural (Monaro Volcanics)*	TP230.0-0.1		Y		ML	**(0.0) Silty CLAY:** dark brown-red brown, moist, soft	Traces of volcanic cobbles (<5cm) on surface	826
						GC	**(0.1) Gravelly Sandy CLAY:** red brown, moist, firm-hard	Extremely fractured bedrock	
0.5		TP230.5-0.6		N					
								EOH @ 0.8m (Natural) Refusal on rock	
1.0									825

Comments	**LOGGED BY** C.Gunton **CHECKED BY** J.Lim

ianterra consulting	**BORE LOG** **TP24**	**PROJECT NUMBER:** P22105 **CLIENT NAME:** Stantec Australia Pty Ltd **ADDRESS:** Monaro Highway Cooma 2630

PROJECT NAME: Detailed Site Investigation	**COORDINATE SYSTEM:** GDA2020 / MGA zone 55
CONTRACTOR: Ground Control ACT Pty Ltd	**EASTING:** 692,955.146 mE
DRILL METHOD: Excavator	**NORTHING:** 5,989,659.815 mN
DIAMETER: N.A. (Test Pi)	**ELEVATION:** 819.0AHD
HOLE DEPTH: 0.9 m	**DATE DRILLED:** 15/09/2022

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Topsoil*	TP24 0.0-0.1		Y		SC	**(0.0) Silty CLAY:** dark brown, moist, firm		819
	Natural (Monaro Volcanics)					GC	**(0.1) Gravelly Sandy CLAY:** dark red brown, moist-wet, firm	Extremely fractured bedrock	
0.5		TP24 0.5-0.6		N					
						GC	**(0.6) Gravelly Sandy CLAY:** brown-grey brown, moist, firm	Extremely fractured bedrock	
								EOH @ 0.9m (Natural) Refusal on rock	
1.0									818

Comments	**LOGGED BY** C.Gunton **CHECKED BY** J.Lim

ianterra consulting	**BORE LOG** **TP25**	**PROJECT NUMBER:** P22105 **CLIENT NAME:** Stantec Australia Pty Ltd **ADDRESS:** Monaro Highway Cooma 2630

PROJECT NAME:	Detailed Site Investigation	**COORDINATE SYSTEM:**	GDA2020 / MGA zone 55
CONTRACTOR:	Ground Control ACT Pty Ltd	**EASTING:**	692,994.1677 mE
DRILL METHOD:	Excavator	**NORTHING:**	5,989,766.009 mN
DIAMETER:	N.A. (Test Pi)	**ELEVATION:**	826.0AHD
HOLE DEPTH:	0.8 m	**DATE DRILLED:**	15/09/2022

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Topsoil*	TP25 0.0-0.1		Y		ML	**(0.0) Silty CLAY:**dark brown, moist, soft-firm		826
	Natural (Monaro Volcanics)					GC	**(0.1) Gravelly Clayey SAND:** brown-red brown, moist, firm	Extremely weathered bedrock	
0.5		TP25 0.5-0.6		N					
								EOH @ 0.8m (Natural) Refusal on rock	
1.0									825

Comments	**LOGGED BY** C.Gunton **CHECKED BY** J.Lim

lanterra consulting	**BORE LOG** **TP26**	**PROJECT NUMBER:** P22105 **CLIENT NAME:** Stantec Australia Pty Ltd **ADDRESS:** Monaro Highway Cooma 2630

PROJECT NAME: Detailed Site Investigation	**COORDINATE SYSTEM:** GDA2020 / MGA zone 55
CONTRACTOR: Ground Control ACT Pty Ltd	**EASTING:** 692,921.5596 mE
DRILL METHOD: Excavator	**NORTHING:** 5,989,732.423 mN
DIAMETER: N.A. (Test Pi)	**ELEVATION:** 820.0AHD
HOLE DEPTH: 1.0 m	**DATE DRILLED:** 15/09/2022

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Topsoil*	TP26 0.0-0.1		Y		ML	**(0.0) Silty CLAY:** dark brown, moist, firm		820
	Natural (Monaro Volcanics)					CL	**(0.2) CLAY:** red brown, moist, soft		
0.5		TP26 0.5-0.6		N					
						GC	**(0.7) Gravelly CLAY:** red brown-grey brown, moist, firm	Extremely fractured bedrock	
1.0								EOH @ 1.0m (Natural) Target depth	819

Comments	**LOGGED BY** C.Gunton **CHECKED BY** J.Lim

ianterra consulting	**BORE LOG** **TP27**	**PROJECT NUMBER:** P22105 **CLIENT NAME:** Stantec Australia Pty Ltd **ADDRESS:** Monaro Highway Cooma 2630

PROJECT NAME: Detailed Site Investigation	**COORDINATE SYSTEM:** GDA2020 / MGA zone 55
CONTRACTOR: Ground Control ACT Pty Ltd	**EASTING:** 692,887.9731 mE
DRILL METHOD: Excavator	**NORTHING:** 5,989,805.031 mN
DIAMETER: N.A. (Test Pi)	**ELEVATION:** 820.0AHD
HOLE DEPTH: 1.0 m	**DATE DRILLED:** 15/09/2022

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Natural (Monaro Volcanics)*	TP27 0.0-0.1		Y		ML	**(0.0) Silty CLAY:** dark brown, moist, soft-firm	Traces of subangular, cobble-sized volcanic rocks (<8cm)	820
						GC	**(0.2) Gravelly Sandy CLAY:** orange brown-red brown, moist, firm	Extremely fractured bedrock	
0.5		TP27 0.5-0.6		N					
1.0								EOH @ 1.0m (Natural) Target depth	819

Comments	**LOGGED BY** C.Gunton **CHECKED BY** J.Lim

ianterra consulting	**BORE LOG** **TP28**	**PROJECT NUMBER:** P22105 **CLIENT NAME:** Stantec Australia Pty Ltd **ADDRESS:** Monaro Highway Cooma 2630

PROJECT NAME: Detailed Site Investigation	**COORDINATE SYSTEM:** GDA2020 / MGA zone 55
CONTRACTOR: Ground Control ACT Pty Ltd	**EASTING:** 692,781.7784 mE
DRILL METHOD: Excavator	**NORTHING:** 5,989,844.053 mN
DIAMETER: N.A. (Test Pi)	**ELEVATION:** 814.0AHD
HOLE DEPTH: 1.0 m	**DATE DRILLED:** 15/09/2022

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Topsoil*	TP28 0.0-0.1		Y		ML	**(0.0) Silty CLAY:** dark brown, moist, firm	Traces of subangular gravel (<3cm)	814
	Natural (Monaro Volcanics)					GC	**(0.2) Gravelly Sandy CLAY:** red brown-grey brown, moist, firm	Extremely fractured bedrock	
0.5		TP28 0.5-0.6		N					
1.0								EOH @ 1.0m (Natural) Target depth	813

Comments	**LOGGED BY** C.Gunton **CHECKED BY** J.Lim

ianterra consulting	**BORE LOG** **TP29**	**PROJECT NUMBER:** P22105 **CLIENT NAME:** Stantec Australia Pty Ltd **ADDRESS:** Monaro Highway Cooma 2630

PROJECT NAME: Detailed Site Investigation	**COORDINATE SYSTEM:** GDA2020 / MGA zone 55
CONTRACTOR: Ground Control ACT Pty Ltd	**EASTING:** 692,709.1702 mE
DRILL METHOD: Excavator	**NORTHING:** 5,989,810.466 mN
DIAMETER: N.A. (Test Pi)	**ELEVATION:** 813.0 AHD
HOLE DEPTH: 1.0 m	**DATE DRILLED:** 15/09/2022

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Topsoil*	TP29 0.0-0.1		Y		ML	**(0.0) Silty CLAY:** dark brown, moist, firm	Topsoil: grassed surface	813
	Natural (Monaro Volcanics)					CL	**(0.2) CLAY:** dark red brown, moist, firm		
0.5		TP29 0.5-0.6		N					
						GC	**(0.8) Gravelly Sandy CLAY:** grey brown, moist, firm	Extremely fractured bedrock	
1.0								EOH @ 1.0m (Natural) Target depth	812

Comments	**LOGGED BY** C.Gunton **CHECKED BY** J.Lim

lanterra consulting	**BORE LOG** **TP30**	**PROJECT NUMBER:** P22105 **CLIENT NAME:** Stantec Australia Pty Ltd **ADDRESS:** Monaro Highway Cooma 2630

PROJECT NAME:	Detailed Site Investigation	**COORDINATE SYSTEM:**	GDA2020 / MGA zone 55
CONTRACTOR:	Ground Control ACT Pty Ltd	**EASTING:**	692,675.5837 mE
DRILL METHOD:	Excavator	**NORTHING:**	5,989,883.074 mN
DIAMETER:	N.A. (Test Pi)	**ELEVATION:**	814.0 AHD
HOLE DEPTH:	1.0 m	**DATE DRILLED:**	15/09/2022

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0		TP30 0.0-0.1		Y		GC	**(0.0) Gravelly Silty CLAY:** red brown, moist, firm	Grassed surface	814
						GC	**(0.2) Gravelly Sandy CLAY:** red brown, moist, firm	Extremely fractured bedrock	
0.5	*Natural (Monaro Volcanics)*	TP30 0.5-0.6		N				Cobbles (<15cm)	
1.0								EOH @ 1.0m (Natural) Target depth	813

Comments	**LOGGED BY** C.Gunton **CHECKED BY** J.Lim

ianterra consulting	**BORE LOG** **TP31**	**PROJECT NUMBER:** P22105 **CLIENT NAME:** Stantec Australia Pty Ltd **ADDRESS:** Monaro Highway Cooma 2630

PROJECT NAME: Detailed Site Investigation	**COORDINATE SYSTEM:** GDA2020 / MGA zone 55
CONTRACTOR: Ground Control ACT Pty Ltd	**EASTING:** 692,602.9756 mE
DRILL METHOD: Excavator	**NORTHING:** 5,989,849.488 mN
DIAMETER: N.A. (Test Pi)	**ELEVATION:** 813.0 AHD
HOLE DEPTH: 0.6 m	**DATE DRILLED:** 15/09/2022

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Natural (Monaro Volcanics)*	TP31 0.0-0.1		Y		GC	**(0.0) Gravelly Silty CLAY:** dark brown, moist, firm	Extremely fractured bedrock near surface	813
0.5		TP31 0.5-0.6		N				Increasing rock size (<35cm)	
1.0								EOH @ 0.6m (Natural) Refusal on rock	812

Located on a small knoll

LOGGED BY C.Gunton

CHECKED BY J.Lim

ianterra consulting	**BORE LOG** **TP32**	**PROJECT NUMBER:** P22105 **CLIENT NAME:** Stantec Australia Pty Ltd **ADDRESS:** Monaro Highway Cooma 2630

PROJECT NAME: Detailed Site Investigation	**COORDINATE SYSTEM:** GDA2020 / MGA zone 55
CONTRACTOR: Ground Control ACT Pty Ltd	**EASTING:** 692,636.562 mE
DRILL METHOD: Excavator	**NORTHING:** 5,989,776.88 mN
DIAMETER: N.A. (Test Pi)	**ELEVATION:** 813.0 AHD
HOLE DEPTH: 1.0 m	**DATE DRILLED:** 15/09/2022

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Topsoil*	TP320.0-0.1		Y		ML	**(0.0) Silty CLAY:** dark brown-red brown, moist, firm		813
	Natural (Alluvium)					ML	**(0.1) Silty CLAY:** brown-red brown, moist, firm	Alluvial sediment	
0.5		TP32 0.5-0.6		N					
1.0								EOH @ 1.0m (Natural) Target depth	812

Comments	**LOGGED BY** C.Gunton **CHECKED BY** J.Lim

Ianterra consulting	**BORE LOG** **TP33**	**PROJECT NUMBER:** P22105 **CLIENT NAME:** Stantec Australia Pty Ltd **ADDRESS:** Monaro Highway Cooma 2630

PROJECT NAME:	Detailed Site Investigation	**COORDINATE SYSTEM:**	GDA2020 / MGA zone 55
CONTRACTOR:	Ground Control ACT Pty Ltd	**EASTING:**	692,670.1485 mE
DRILL METHOD:	Excavator	**NORTHING:**	5,989,704.271 mN
DIAMETER:	N.A. (Test Pi)	**ELEVATION:**	811.0 AHD
HOLE DEPTH:	1.0 m	**DATE DRILLED:**	15/09/2022

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0		TP33 0.0-0.1		Y		ML	**(0.0) Silty CLAY:** dark brown-red brown, moist, soft-firm		811
	Natural (Alluvium)					ML	**(0.3) Silty CLAY:** red brown, moist, soft-firm	Alluvial sediment	
0.5		TP33 0.5-0.6		N					
1.0								EOH @ 1.0m (Natural) Target depth	810

Comments	**LOGGED BY** C.Gunton **CHECKED BY** J.Lim

lanterra consulting	**BORE LOG** **TP34**	**PROJECT NUMBER:** P22105 **CLIENT NAME:** Stantec Australia Pty Ltd **ADDRESS:** Monaro Highway Cooma 2630

PROJECT NAME: Detailed Site Investigation	**COORDINATE SYSTEM:** GDA2020 / MGA zone 55
CONTRACTOR: Ground Control ACT Pty Ltd	**EASTING:** 692,597.5403 mE
DRILL METHOD: Excavator	**NORTHING:** 5,989,670.685 mN
DIAMETER: N.A. (Test Pi)	**ELEVATION:** 813.0 AHD
HOLE DEPTH: 0.8 m	**DATE DRILLED:** 15/09/2022

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0		TP34 0.0-0.1		Y		GC	**(0.0) Gravelly Silty CLAY:** dark brown, moist, firm	Traces of cobbles (<15cm)	813
	Natural (Monaro Volcanics)					GM	**(0.2) Gravelly Silty SAND:** dark brown-red brown, moist, loose	Extremely fractured bedrock	
0.5		TP340.5-0.6		N				Large, subangular cobbles	
								EOH @ 0.8m (Natural) Refusal on rock	
1.0									812

Comments	**LOGGED BY** C.Gunton **CHECKED BY** J.Lim

lanterra consulting	**BORE LOG** **TP35**	**PROJECT NUMBER:** P22105 **CLIENT NAME:** Stantec Australia Pty Ltd **ADDRESS:** Monaro Highway Cooma 2630

PROJECT NAME: Detailed Site Investigation	**COORDINATE SYSTEM:** GDA2020 / MGA zone 55
CONTRACTOR: Ground Control ACT Pty Ltd	**EASTING:** 692,563.9539 mE
DRILL METHOD: Excavator	**NORTHING:** 5,989,743.293 mN
DIAMETER: N.A. (Test Pi)	**ELEVATION:** 812.0 AHD
HOLE DEPTH: 0.6 m	**DATE DRILLED:** 15/09/2022

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Natural (Monaro Volcanics)*	TP35 0.0-0.1		Y		GC	**(0.0) Cobbly Gravelly CLAY:** dark brown, moist, soft-firm	Extremely fractured bedrock	812
0.5		TP35 0.5-0.6		N					
								EOH @ 0.6m (Natural) Refusal on rock	
1.0									811

Comments	**LOGGED BY** C.Gunton **CHECKED BY** J.Lim

lanterra consulting	**BORE LOG** **TP36**	**PROJECT NUMBER:** P22105 **CLIENT NAME:** Stantec Australia Pty Ltd **ADDRESS:** Monaro Highway Cooma 2630

PROJECT NAME: Detailed Site Investigation	**COORDINATE SYSTEM:** GDA2020 / MGA zone 55
CONTRACTOR: Ground Control ACT Pty Ltd	**EASTING:** 692,491.3457 mE
DRILL METHOD: Excavator	**NORTHING:** 5,989,709.707 mN
DIAMETER: N.A. (Test Pi)	**ELEVATION:** 813.0 AHD
HOLE DEPTH: 1.1 m	**DATE DRILLED:** 15/09/2022

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Natural (Monaro Volcanics)*	TP36 0.0-0.1		Y		ML	**(0.0) Silty CLAY:** dark brown-red brown, moist, soft-firm		813
						ML	**(0.2) Silty CLAY:** red brown, moist, soft-firm		
0.5		TP36 0.5-0.6		N					
						CL	**(0.9) CLAY:** orange brown-grey brown, moist, soft	Extremely weathered rock - different material compared to upper layers	
1.0									812
								EOH @ 1.1m (Natural) Target depth	

Comments	**LOGGED BY** C.Gunton **CHECKED BY** J.Lim

ianterra consulting	**BORE LOG** **TP37**	**PROJECT NUMBER:** P22105 **CLIENT NAME:** Stantec Australia Pty Ltd **ADDRESS:** Monaro Highway Cooma 2630

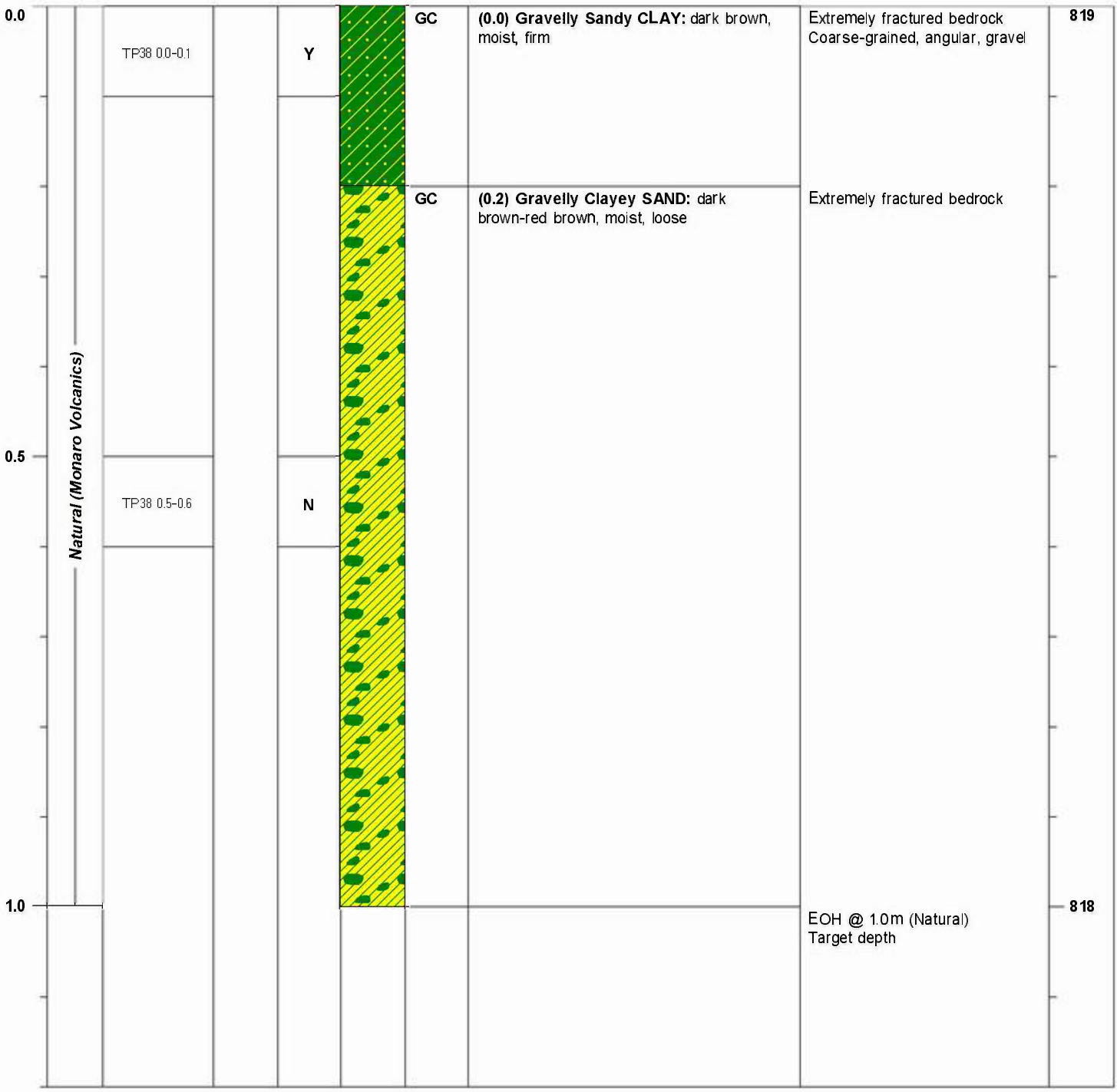
PROJECT NAME: Detailed Site Investigation	**COORDINATE SYSTEM:** GDA2020 / MGA zone 55
CONTRACTOR: Ground Control ACT Pty Ltd	**EASTING:** 692,820.8001 mE
DRILL METHOD: Excavator	**NORTHING:** 5,989,950.247 mN
DIAMETER: N.A. (Test Pi)	**ELEVATION:** 817.0 AHD
HOLE DEPTH: 1.0 m	**DATE DRILLED:** 15/09/2022

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Topsoil*	TP37 0.0-0.1		Y		ML	**(0.0) Silty CLAY:** dark brown, moist, soft-firm		817
	Natural (Monaro Volcanics)					ML	**(0.1) Silty CLAY:** red brown, moist, firm		
0.5		TP37 0.5-0.6		N		GC	**(0.4) Gravelly Sandy CLAY:** brown-grey brown, moist, firm	Extremely fractured bedrock	
1.0								EOH @ 1.0m (Natural) Target depth	816

Comments	**LOGGED BY** C.Gunton **CHECKED BY** J.Lim

ianterra consulting	**BORE LOG** **TP38**	**PROJECT NUMBER:** P22105 **CLIENT NAME:** Stantec Australia Pty Ltd **ADDRESS:** Monaro Highway Cooma 2630

PROJECT NAME:	Detailed Site Investigation	**COORDINATE SYSTEM:**	GDA2020 / MGA zone 55
CONTRACTOR:	Ground Control ACT Pty Ltd	**EASTING:**	692,893.4083 mE
DRILL METHOD:	Excavator	**NORTHING:**	5,989,983.834 mN
DIAMETER:	N.A. (Test Pi)	**ELEVATION:**	819.0 AHD
HOLE DEPTH:	1.0 m	**DATE DRILLED:**	15/09/2022



Comments	**LOGGED BY** C.Gunton **CHECKED BY** J.Lim

ianterra consulting	**BORE LOG** **TP39**	**PROJECT NUMBER:** P22105 **CLIENT NAME:** Stantec Australia Pty Ltd **ADDRESS:** Monaro Highway Cooma 2630

PROJECT NAME: Detailed Site Investigation	**COORDINATE SYSTEM:** GDA2020 / MGA zone 55
CONTRACTOR: Ground Control ACT Pty Ltd	**EASTING:** 692,966.0165 mE
DRILL METHOD: Excavator	**NORTHING:** 5,990,017.42 mN
DIAMETER: N.A. (Test Pi)	**ELEVATION:** 820.0AHD
HOLE DEPTH: 1.0 m	**DATE DRILLED:** 16/09/2022

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Natural (Monaro Volcanics)*	TP39 0.0-0.1		Y		GC	**(0.0) Gravelly Sandy CLAY:** dark brown, moist, firm	Grassed surface	820
						GC	**(0.1) Gravelly CLAY:** dark brown-red brown, moist, firm	Extremely fractured bedrock Very angular gravel and cobbles (10cm)	
0.5		TP39 0.5-0.6		N					
1.0								EOH @ 1.0m (Natural) Target depth	819

Comments	**LOGGED BY** C.Gunton **CHECKED BY** J.Lim

ianterra consulting	**BORE LOG** **TP40**	**PROJECT NUMBER:** P22105 **CLIENT NAME:** Stantec Australia Pty Ltd **ADDRESS:** Monaro Highway Cooma 2630

PROJECT NAME: Detailed Site Investigation	**COORDINATE SYSTEM:** GDA2020 / MGA zone 55
CONTRACTOR: Ground Control ACT Pty Ltd	**EASTING:** 693,038.6247 mE
DRILL METHOD: Excavator	**NORTHING:** 5,990,051.007 mN
DIAMETER: N.A. (Test Pi)	**ELEVATION:** 820.0AHD
HOLE DEPTH: 0.9 m	**DATE DRILLED:** 16/09/2022

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Natural (Monaro Volcanics)*	TP40 0.0-0.1		Y		GC	**(0.0) Gravelly Sandy CLAY:** dark brown, moist, firm	Grassed surface Traces of cobble-sized volcanic rocks (<7cm)	820
						GW	**(0.1) Cobbly Gravelly Sand:** dark brown-red brown, moist, hard	Extremely fractured bedrock	
0.5		TP40 0.5-0.6		N					
								EOH @ 0.9m (Natural) Refusal on rock	
1.0									819

Comments	**LOGGED BY** C.Gunton **CHECKED BY** J.Lim

lanterra consulting	**BORE LOG** **SA1**	**PROJECT NUMBER:** P22105 **CLIENT NAME:** Stantec Australia Pty Ltd **ADDRESS:** Monaro Highway Cooma 2630

PROJECT NAME: Detailed Site Investigation	**COORDINATE SYSTEM:** GDA2020 / MGA zone 55
CONTRACTOR: Ground Control ACT Pty Ltd	**EASTING:** 692,771.6483 mE
DRILL METHOD: Excavator	**NORTHING:** 5,989,793.738 mN
DIAMETER: N.A. (Test Pi)	**ELEVATION:** 814.0 AHD
HOLE DEPTH: 0.5 m	**DATE DRILLED:** 16/09/2022

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Natural (Monaro Volcanics)*	SA1 0.0-0.1		Y		GC	**(0.0) Gravelly Sandy CLAY:** dark brown-red brown, moist, firm	Grassed surfaced Extremely fractured rock Coarse-grained, angular gravel	814
		SA1 0.5-0.6		N					
0.5								EOH @ 0.5m (Natural) Refusal on rock	
1.0									813

Scraped area: topsoil has been removed, revealing underlying rock at surface

LOGGED BY C.Gunton

CHECKED BY J.Lim

lanterra consulting	**BORE LOG** **SA2**	**PROJECT NUMBER:** P22105 **CLIENT NAME:** Stantec Australia Pty Ltd **ADDRESS:** Monaro Highway Cooma 2630

PROJECT NAME: Detailed Site Investigation	**COORDINATE SYSTEM:** GDA2020 / MGA zone 55
CONTRACTOR: Ground Control ACT Pty Ltd	**EASTING:** 692,797.2513 mE
DRILL METHOD: Excavator	**NORTHING:** 5,989,750.791 mN
DIAMETER: N.A. (Test Pi)	**ELEVATION:** 815.0 AHD
HOLE DEPTH: 0.5 m	**DATE DRILLED:** 16/09/2022

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Natural (Monaro Volcanics)*	SA2 0.0-0.1		Y		GC	**(0.0) Gravelly Clayey SAND:** dark brown-red brown, dry-moist, loose	Extremely fractured bedrock Coarse-grained, angular gravel and sand	815
		SA2 0.5-0.6		N					
0.5								EOH @ 0.5m (Natural) Refusal on rock	
1.0									814

Comments	**LOGGED BY** C.Gunton **CHECKED BY** J.Lim

lanterra consulting	**BORE LOG** **SA3**	**PROJECT NUMBER:** P22105 **CLIENT NAME:** Stantec Australia Pty Ltd **ADDRESS:** Monaro Highway Cooma 2630

PROJECT NAME: Detailed Site Investigation	**COORDINATE SYSTEM:** GDA2020 / MGA zone 55
CONTRACTOR: Ground Control ACT Pty Ltd	**EASTING:** 692,825.6073 mE
DRILL METHOD: Excavator	**NORTHING:** 5,989,713.625 mN
DIAMETER: N.A. (Test Pi)	**ELEVATION:** 815.0 AHD
HOLE DEPTH: 0.6 m	**DATE DRILLED:** 16/09/2022

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Natural (Monaro Volcanics)*	SA3 0.0-0.1		N		GC	**(0.0) Gravelly Sandy CLAY:** dark brown-red brown, moist, loose	Extremely fractured bedrock Medium-grained to coarse-grained, angular gravel	815
0.5		SA3 0.5-0.6		Y					
								EOH @ 0.6m (Natural) Refusal on rock	
1.0									814

Comments	**LOGGED BY** C.Gunton **CHECKED BY** J.Lim

ianterra consulting	**BORE LOG** **SA4**	**PROJECT NUMBER:** P22105 **CLIENT NAME:** Stantec Australia Pty Ltd **ADDRESS:** Monaro Highway Cooma 2630

PROJECT NAME: Detailed Site Investigation	**COORDINATE SYSTEM:** GDA2020 / MGA zone 55
CONTRACTOR: Ground Control ACT Pty Ltd	**EASTING:** 692,858.3681 mE
DRILL METHOD: Excavator	**NORTHING:** 5,989,674.257 mN
DIAMETER: N.A. (Test Pi)	**ELEVATION:** 815.0 AHD
HOLE DEPTH: 0.6 m	**DATE DRILLED:** 16/09/2022

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Natural (Monaro Volcanics)*	SA4 0.0-0.1		Y		GC	**(0.0) Gravelly Sandy CLAY:** dark brown-red brown, moist-wet, firm	Extremely fractured bedrock Medium-grained, angular gravel	815
						GC	**(0.2) Cobbly Clayey Gravel:** dark red brown-grey brown, moist, loose	Extremely fractured bedrock Angular gravel and cobbles (<8cm)	
0.5		SA4 0.5-0.6		N					
								EOH @ 0.6m (Natural) Refusal on rock	
1.0									814

Topsoil has been scraped

LOGGED BY C.Gunton

CHECKED BY J.Lim

lanterra consulting	**BORE LOG** **SA5**	**PROJECT NUMBER:** P22105 **CLIENT NAME:** Stantec Australia Pty Ltd **ADDRESS:** Monaro Highway Cooma 2630

PROJECT NAME:	Detailed Site Investigation	**COORDINATE SYSTEM:**	GDA2020 / MGA zone 55
CONTRACTOR:	Ground Control ACT Pty Ltd	**EASTING:**	692,817.8989 mE
DRILL METHOD:	Excavator	**NORTHING:**	5,989,678.111 mN
DIAMETER:	N.A. (Test Pi)	**ELEVATION:**	814.0AHD
HOLE DEPTH:	1.0 m	**DATE DRILLED:**	16/09/2022

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Topsoil*	SA5 0.0-0.1		Y		ML	**(0.0) Silty CLAY:** dark brown, moist, firm		814
	Natural (Alluvium)					SC	**(0.2) Sandy Silty CLAY:** dark brown-red brown, moist, soft-firm	Alluvial sediment	
0.5		SA5 0.5-0.6		N					
	Natural (Monaro Volcanics)					GC	**(0.7) Gravelly Sandy CLAY:** dark brown-red brown, moist, firm	Extremely fractured bedrock Coarse-grained, angular gravel	
1.0								EOH @ 1.0m (Natural) Target depth	813

Comments	**LOGGED BY** C.Gunton **CHECKED BY** J.Lim

lanterra consulting	**BORE LOG** **SA6**	**PROJECT NUMBER:** P22105 **CLIENT NAME:** Stantec Australia Pty Ltd **ADDRESS:** Monaro Highway Cooma 2630

PROJECT NAME: Detailed Site Investigation	**COORDINATE SYSTEM:** GDA2020 / MGA zone 55
CONTRACTOR: Ground Control ACT Pty Ltd	**EASTING:** 692,787.891 mE
DRILL METHOD: Excavator	**NORTHING:** 5,989,718.305 mN
DIAMETER: N.A. (Test Pi)	**ELEVATION:** 814.0 AHD
HOLE DEPTH: 1.1 m	**DATE DRILLED:** 16/09/2022

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Topsoil*	SA6 0.0-0.1		N		ML	**(0.0) Silty CLAY:** dark brown-red brown, moist, firm	Topsoil: alluvial sediment Subangular, cobble-sized volcanic rocks (<7cm)	814
0.5		SA6 0.5-0.6		Y					
	Natural (Alluvium)					ML	**(0.6) Silty CLAY:** red brown, moist, firm	Alluvial sediment	
1.0						GC	**(1.0) Gravelly CLAY:** red brown-grey brown, moist, firm	Extremely fractured bedrock Coarse-grained, angular gravel	813
								EOH @ 1.1m (Natural) Target depth	

Comments	**LOGGED BY** C.Gunton **CHECKED BY** J.Lim

ianterra consulting	**BORE LOG** **SA7**	**PROJECT NUMBER:** P22105 **CLIENT NAME:** Stantec Australia Pty Ltd **ADDRESS:** Monaro Highway Cooma 2630

PROJECT NAME:	Detailed Site Investigation	**COORDINATE SYSTEM:**	GDA2020 / MGA zone 55
CONTRACTOR:	Ground Control ACT Pty Ltd	**EASTING:**	692,761.7374 mE
DRILL METHOD:	Excavator	**NORTHING:**	5,989,756.022 mN
DIAMETER:	N.A. (Test Pi)	**ELEVATION:**	812.0 AHD
HOLE DEPTH:	1.1 m	**DATE DRILLED:**	16/09/2022

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Topsoil*	SA7 0.0-0.1		Y		ML	**(0.0) Silty CLAY:** dark brown-red brown, moist, firm		812
	Natural (Alluvium)					ML	**(0.3) Silty CLAY:** red brown, moist, firm	Alluvium sediment	
0.5		SA7 0.5-0.6		N					
1.0						CL	**(1.0) CLAY:** orange brown-red brown, moist, firm	Potential different lithology	811
								EOH @ 1.1m (Natural) Target depth	

Comments	**LOGGED BY** C.Gunton **CHECKED BY** J.Lim

ianterra consulting	**BORE LOG** **SA8**	**PROJECT NUMBER:** P22105 **CLIENT NAME:** Stantec Australia Pty Ltd **ADDRESS:** Monaro Highway Cooma 2630

PROJECT NAME:	Detailed Site Investigation	**COORDINATE SYSTEM:**	GDA2020 / MGA zone 55
CONTRACTOR:	Ground Control ACT Pty Ltd	**EASTING:**	692,719.8916 mE
DRILL METHOD:	Excavator	**NORTHING:**	5,989,764.005 mN
DIAMETER:	N.A. (Test Pi)	**ELEVATION:**	812.0 AHD
HOLE DEPTH:	1.1 m	**DATE DRILLED:**	16/09/2022

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Fill*	SA8 0.0-0.1		Y		GC	**(0.0) Gravelly Silty CLAY:** red brown, moist, firm		812
0.5		SA8 0.5-0.6		N					
	Topsoil					ML	**(0.7) Silty CLAY:** dark brown, moist, firm	Old surface topsoil	
	Natural (Alluvium)					ML	**(0.9) Silty CLAY:** dark brown-red brown, moist, soft-firm	Alluvium sediment	
1.0		SA8 1.0-1.1		N					811
								EOH @ 1.1m (Natural) Target depth	

Area around SA8 appears to be levelled - likely material that has been cut from scraped area

LOGGED BY	C.Gunton
CHECKED BY	J.Lim

ianterra consulting	**BORE LOG** **SA9**	**PROJECT NUMBER:** P22105 **CLIENT NAME:** Stantec Australia Pty Ltd **ADDRESS:** Monaro Highway Cooma 2630

PROJECT NAME:	Detailed Site Investigation	**COORDINATE SYSTEM:**	GDA2020 / MGA zone 55
CONTRACTOR:	Ground Control ACT Pty Ltd	**EASTING:**	692,748.7983 mE
DRILL METHOD:	Excavator	**NORTHING:**	5,989,720.783 mN
DIAMETER:	N.A. (Test Pi)	**ELEVATION:**	813.0 AHD
HOLE DEPTH:	1.1 m	**DATE DRILLED:**	16/09/2022

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	Fill	SA9 0.0-0.1		N		ML	**(0.0) Silty CLAY:** dark brown-red brown, moist, firm	Fill: traces of rounded gravel	813
0.5	Natural (Topsoil)	SA9 0.5-0.6		Y		ML	**(0.5) Silty CLAY:**dark brown, moist, soft-firm	Old surface topsoil	
	Natural (Alluvium)					ML	**(0.7) Silty CLAY:** dark brown-red brown, moist, firm	Alluvial sediment	
1.0		SA91.0-1.1		N					812
								EOH @ 1.1m (Natural) Target depth	

Comments	**LOGGED BY** C.Gunton **CHECKED BY** J.Lim

ianterra consulting	**BORE LOG** **SA10**	**PROJECT NUMBER:** P22105 **CLIENT NAME:** Stantec Australia Pty Ltd **ADDRESS:** Monaro Highway Cooma 2630

PROJECT NAME: Detailed Site Investigation	**COORDINATE SYSTEM:** GDA2020 / MGA zone 55
CONTRACTOR: Ground Control ACT Pty Ltd	**EASTING:** 692,777.1543 mE
DRILL METHOD: Excavator	**NORTHING:** 5,989,683.342 mN
DIAMETER: N.A. (Test Pi)	**ELEVATION:** 813.0 AHD
HOLE DEPTH: 1.1 m	**DATE DRILLED:** 16/09/2022

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	Fill	SA100.0-0.1		Y		ML	**(0.0) Silty CLAY:** dark brown-red brown, moist, firm		813
0.5	Topsoil	SA10 0.5-0.6		N		ML	**(0.4) Clayey SILT:** dark brown, moist, soft-firm	Old surface topsoil	
	Natural					ML	**(0.6) Silty CLAY:** dark brown-red brown, moist, firm		
1.0								EOH @ 1.1m (Natural) Target depth	812

Comments	**LOGGED BY** C.Gunton **CHECKED BY** J.Lim

Photographs

lanterra consulting	**SITE PHOTOGRAPHS**

Client Name	**Site Location**	**Project No.**
Stantec	Lot 6 DP242762 and Lot 318 DP750535, Cooma, NSW	P22105

Photo No.	**Date**
1.	15/09/2022

Description

Example of brown red soil natural soil profile found across the site.



Photo No.	**Date**
2.	15/09/2022

Description

Bedrock observed in bottom of testpit.



lanterra consulting	**SITE PHOTOGRAPHS**

Client Name	**Site Location**	**Project No.**
Stantec	Lot 6 DP242762 and Lot 318 DP750535, Cooma, NSW	P22105

Photo No.	**Date**	
3.	16/09/2022	
Description Drainage sample SS6 collected from the soil within the tin structure.		

Photo No.	**Date**	
4.	28/06/2022	
Description Drainage showing traces of concrete.		

lanterra consulting	**SITE PHOTOGRAPHS**

Client Name	**Site Location**	**Project No.**
Stantec	Lot 6 DP242762 and Lot 318 DP750535, Cooma, NSW	P22105

Photo No.	**Date**
5.	28/06/2022

Description

View of swale associated with the dam looking to the north-west.



Photo No.	**Date**
6.	28/06/2022

Description

Photograph of bricks observed close to the eastern boundary of the site.



lanterra consulting	**SITE PHOTOGRAPHS**

Client Name	**Site Location**	**Project No.**
Stantec	Lot 6 DP242762 and Lot 318 DP750535, Cooma, NSW	P22105

Photo No.	**Date**
7.	28/06/2022

Description

View of the site from the southern boundary (Lot 318) towards the south-west.



Photo No.	**Date**
8.	28/06/2022

Description

Swale observed to the south-west of the dam. Reddish soil, potentially associated to iron content, is observed.



lanterra consulting	**SITE PHOTOGRAPHS**

Client Name	**Site Location**	**Project No.**
Stantec	Lot 6 DP242762 and Lot 318 DP750535, Cooma, NSW	P22105

Photo No.	**Date**
9.	28/06/2022

Description

Photograph showing fragments of concrete adjacent to the electrical substation located to the west of the site.



Photo No.	**Date**
10.	28/06/2022

Description

Old tin trough observed in the northwest section of the site, associated with the drainage channel.



DSI Checklist

Detailed Site Investigation Checklist

Report Title: Detailed Site Investigation, Lots 2, 3 and 4 DP1285072, Cooma, NSW, Cooma, NSW

Date: 10 October 2022

The following checklist template has been adopted from the NSW EPA *Consultants reporting on contaminated land Contaminated Land Guidelines*, May 2020.

Report Section	Required Information	Present Yes/No/NA
Document Control	Date, Version Number, author and reviewer (including certification details) and who commissioned the report	Yes
Executive Summary	Background	Yes
	Objectives of the Investigation	Yes
	Scope of Work	Yes
	Summary of key findings	Yes
	Summary of conclusions and recommendations	Yes
Objectives	The objectives of the investigation / report and the broader objectives for the site/investigation	Yes
Scope of Work	Scope of work performed (and work not undertaken where relevant)	Yes
Site Identification	Site identification and detail items from ASC NEPM Field Checklist 'Site Information' sheet	Yes (See Comments Below)
Site History	Review of Aerial Photographs	Yes
	Contaminated Land Search	Yes
	Groundwater Bore Search	Yes
	Review of Historical Plans or Records held by Queanbeyan Local Environmental Plan 2012 and commonwealth Departments	Yes
	A review of current and former uses of the site	Yes
	A review of heating methods utilised at the site including an inspection to identify the presence otherwise of aboveground and/or underground fuel storage tanks and other potentially contaminating activities	Yes

	A review of dangerous substances storage at the site	N/A
	Discussions with current and past land managers, lessees and site users	Yes
	Land Title Searches	Yes
	Identification of potential contaminant types based on site uses, site history and building records.	Yes
Site Condition and Surrounding Environment	Site condition and surrounding environment items from ASC NEPM Field Checklist 'Site Information' sheet	Yes
Conceptual Site Model	Regional and local geology, hydrogeology and hydrology items from the ASC NEPM Field Checklist 'CSM' sheet	Yes
	List of Potential contaminants of potential concern	Yes
	Potential and known sources of contamination, on- and offsite	Yes
	Mechanism of contamination (e.g. top-down spill, subsurface release from tank or pipe, atmospheric deposition etc.)	Yes
	Potentially affected environmental media	Yes
	Consideration of spatial and temporal variations	Yes
	Actual or potential exposure pathways including preferential pathways	Yes
	Human and ecological receptors	Yes
	Frequency of exposure	Yes
	Linkage of source, pathway and receptor assessed in terms of potentially complete pathways and likelihood	Yes
	Discussion on multiple lines of evidence (for complex sites)	NA
Data Quality Objectives	Step 1: State the Problem	Yes
	Step 2: Identify the decision/goal of the study	Yes
	Step 3: Identify the information inputs	Yes
	Step 4: Define the boundaries of the study	Yes
	Step 5: Develop the analytical approach	Yes
	Step 6: Specify performance and acceptance criteria	Yes
	Step 7: Develop the plan for obtaining data	Yes
Sampling and Analysis Quality Plan and Sampling Methodology		NA
Quality Assurance / Quality Control	Details of Sampling Team	Yes
	References to sampling plan/method, including any deviations from it – sampling and analysis quality plan	NA
	Any information that could be required to evaluate measurement uncertainty for subsequent testing (analysis)	NA

	Decontamination procedures carried out between sampling events	Yes
	Logs for each sample collected, including date, time, locations (with GPS Coordinates if possible), sampler, duplicate samples, chemical analyses to be performed, site observations and weather/environmental (i.e. surroundings) conditions. Include any diagrams, maps, photos.	Yes
	Chain of Custody fully identifying for each sample – the sampler, nature of the sample, collection date, analyses to be performed, sample preservation method, departure time from the site and dispatch couriers (where applicable).	Yes
	Field quality assurance/quality control results (e.g. field blank, rinsate blank, trip blank, laboratory prepared trip spike)	Yes
	Sample splitting techniques – subsampling, containers/preservation (ensure unique ID for subsequent samples provided)	Yes
	Statement of duplicate frequency	Yes
	Background sample results	NA
	Field instrument calibrations	No
	Sampling devices and equipment	Yes
	A copy of signed chain of custody forms acknowledging receipt date, time and temperature and identity of samples including shipments	NA
	Recording of holding times and a comparison with method specifications	Yes
	Analytical methods used, including any deviations	Yes
	Laboratory performance for the analytical method using inter-laboratory duplicates.	Yes
	Surrogates and spikes used throughout the full method process, or only in parts. Results are corrected for the recovery.	Yes
	A list of what spikes and surrogates were run with their recoveries and acceptance criteria	Yes
	Practical Quantification Limits (PQL)	NA
	Reference Laboratory control sample (LCS) and check results	Yes
	Laboratory duplicate results	Yes
	Laboratory blank results	Yes
	Results are within control chart limits	Yes
	Evaluation of all quality assurance/quality control information listed above against the stated data quality objectives including a quality assurance/control data evaluation	Yes
Field and Analytical Results	Summary of Previous Results	NA
	A table of analytical results that:	NA
	Shows all essential details such as sample identification numbers and sampling depth	Yes
	Shows assessment criteria	Yes

	Highlights all results exceeding any assessment criteria	Yes
	Summary/discussion of the analytical results table	Yes
	Sample descriptions for all media where applicable (e.g. soil, sediment, surface water, groundwater, soil vapour, ground gas, indoor air and biota).	Yes
	Test pit or bore logs (well construction details where appropriate for example groundwater level expressed in Australian height datum)	Yes
	Site plan showing all sample locations	Yes
	Site plan(s) showing the extent of soil and groundwater contamination (if known)	Yes
Conclusions and Recommendations	Summary of all findings and discussion of results	Yes
	Conclusions addressing the stated objectives	Yes
	Assumptions used in reaching the conclusions	No
	Extent of uncertainties in the results (quantified where possible)	No
	A clear statement that the site is considered to be suitable for the proposed use	Yes
	A statement detailing the limitations and constraints on the use of the site	NA
	Recommendations for further work (if appropriate)	Yes
References	References for all guidelines and previous investigations.	Yes