



Detailed Phase 2 Site Contamination Assessment

531 Cobbitty Road, Cobbitty NSW 2570
(Lot 2005 Deposited Plan 1162239)

3 FEBRUARY 2022

Prepared for:
Mirvac Homes (NSW) Pty Ltd
Level 28
200 George Street
Sydney NSW 2000

Project No. SES_631

Prepared/Approved by:
Mr Adam Sullivan
Site Contamination Specialist (SC)
Certified Environmental Practitioner (CEnvP)
Certification No. 40944



Document Control

Rev	Date	Prepared By	Reviewed By	Approved By	Remarks
--	27 January 2022	A. Sullivan	S. Guenther	A. Sullivan	Draft for issue
--	03 February 2022	A. Sullivan	S. Guenther	A. Sullivan	Final

Peer Reviewer :



.....
Sean Guenther
Senior Associate

Sullivan Environmental Sciences Pty Ltd

**PO Box 5248
Turramurra NSW 2074
Australia
E: enquiries@sullivan-es.com.au**

Author / Approval:



.....
Adam Sullivan
Principal Scientist
CEnvP-SC (#40944)

Date: **3 February 2022**
Reference: SES_631
Status: Final

© Document copyright of Sullivan Environmental Sciences Pty Ltd

No use of the contents, concepts, designs, drawings, specifications, plans etc. included in this report is permitted unless and until they are the subject of a written contract between Sullivan Environmental Sciences Pty Ltd and the addressee of this report. Sullivan Environmental Sciences Pty Ltd accepts no liability of any kind for any unauthorised use of the contents of this report and Sullivan Environmental Sciences Pty Ltd reserves the right to seek compensation for any such unauthorised use.

Document delivery

Sullivan Environmental Sciences Pty Ltd provides this document in either printed format, electronic format or both. Sullivan Environmental Sciences Pty Ltd considers the printed version to be binding. The electronic format is provided for the client's convenience and Sullivan Environmental Sciences Pty Ltd requests that the client ensures the integrity of this electronic information is maintained. Storage of this electronic information should at a minimum comply with the requirements of the Commonwealth Electronic Transactions Act (ETA) 2000.

Where an electronic only version is provided to the client, a signed hard copy of this document is held on file by Sullivan Environmental Sciences Pty Ltd and a copy will be provided if requested.

Executive Summary

Mirvac Homes (NSW) Pty Ltd engaged Sullivan Environmental Sciences Pty Ltd to conduct a Detailed Phase 2 Site Contamination Assessment (the Phase 2) of the property at 531 Cobbitty Road, Cobbitty NSW 2570. The site is identified as Lot 2005 in Deposited Plan (DP) 1162239 and has historically been used predominately for agricultural land use.

It is understood that the site is earmarked for residential subdivision, subject to planning approval. A preliminary Phase 1 site contamination assessment was completed in 2020 and found a number of Areas Of Concern (AECs) at the site requiring additional investigation to understand the contamination risks those areas may pose to any future development of the site.

The objectives of this Phase 2 were to assess the identified AECs for contamination risk, assess potential health risks for future use of the land under a low-density residential setting, and provide recommendations for additional investigations or remediation, if required.

The following conclusions are made based on the findings of this Phase 2 and subject to the limitations presented in Section 10:

- The site is approximately 80 hectares in size and proposed for future development for predominately low-density residential dwellings.
- The site was historically used for grazing purposes and water storage in a large farm dam approximately 9.0 hectares in size. The farm dam was constructed circa 1950.
- A sewage pumping station and associated infrastructure was constructed onsite in the early 2010s.
- The Phase 1 (DP, 2020) contamination assessment identified a number of AECs requiring further investigation to assess potential contamination risks.
- The southeast site corner was potentially part of a former army camp located east of the site, however, aerial imagery reviewed as part of this Phase 2 showed little disturbance of this area of the site, which has been pastureland since the army camp was dismantled in the late 1940s. This area of the site was therefore considered to present negligible risk from past army activities.
- Analytical results of samples collected from the AECs indicate that soils within the majority of AECs show negligible levels of contamination and are considered of good quality. Some samples reported detectable concentrations above adopted health criteria, including asbestos presence in fibre cement materials, heavy metals and organic compounds.
- The following AECs reported contamination that warrants delineation and remediation to remove health risks to future users of the site.
 - AEC 1 – underground irrigation pipe – made of asbestos cement material.
 - AEC 2 – power poles PP1 and PP4 – immediately surrounding soils of these poles are impacted by arsenic and organic contaminants. Soils around power poles PP3 and PP6 are assumed to be similarly impacted as they could not be accessed, however require verification sampling.
 - AEC 10 – old pipe on ground – made of asbestos cement material.
 - AEC 11 – the north trench of the farm tip – asbestos cement, ash, lead and zinc impacts were identified in buried wastes. Large pile of scrap metal was also in the tip.
 - AEC 12 – north and south concrete structures – demolition wastes containing asbestos and other inert materials have been dumped into the structures. Underground pipework could be present proximal to the structures.
- Remediation of land requires consent from the local authority

In addition to the above AECs, we consider that the farm dam water and sediments pose a potential contamination risk warranting investigation. The farm dam was not identified in the Phase 1 as an AEC,

Executive Summary

however given its size of 9.0 hectares, age being some 70 years old, and drainage water feeding the dam originating from agricultural related properties and historical army camp uses immediately to the east; the dam could act as a sink for metals and recalcitrant organic compounds to accumulate. At this stage we are not aware of the proposed development layout, however we assume that the dam would be significantly reduced in size to maximise available space for development onsite, therefore some augmentation or complete decommissioning of the dam would be needed. As such, investigation of the dam water and sediments is needed to examine potential risks linked to water and, in particular, sediments residing in the dam.

Sullivan-ES conclude that the site poses a relatively low contamination risk, and it can be made suitable for the proposed residential subdivision subject to performing remediation and validation works at the identified AECs.

We recommend that a Remedial Action Plan (RAP) is prepared to document the current contamination status of the site and evaluate the most suitable method/s to remediate AECs and contamination identified in this Phase 2 in consideration of the proposed residential subdivision development. The RAP is required based on the provisions within the following planning instruments and requires consent from the consenting authority under:

- State Environmental Planning Policy (Sydney Region Growth Centres) 2006.
- Sydney Regional Environmental Plan No 20—Hawkesbury-Nepean River.
- Oran Park Precinct – Development Control Plan 2007.

The RAP is to include all items required as listed in the contaminated land consultants reporting guidelines (NSW EPA 2020), as well as consideration of the following items:

- Additional targeted sampling at power poles PP3 and PP6.
- Decommissioning of the farm dam (if development plans require this action) - sampling of farm dam water and sediments.
- Decommissioning of the concrete structures – examine the locations of possible deep pipework.
- Materials management, classification, handling requirements and offsite disposal.
- Unexpected finds protocol.

The RAP should be prepared or reviewed and approved by a Certified Environmental Practitioner specialising in Site Contamination (CEnvP-SC) as certified by one of the two schemes recognised by the NSW Environment Protection Authority.

Table of Contents

Executive Summary	iii
1 Introduction.....	1
1.1 Objectives	1
1.2 Scope of Work	1
1.3 Regulatory Framework	2
1.4 Consultant’s Competency and Certification	2
2 Site Information	3
2.1 Site Description.....	3
2.1.1 Surrounding Land Use	3
2.1.2 Future Development	4
2.2 Site History	4
2.2.1 Aerial Imagery	5
2.3 Site Inspection and Condition	6
2.4 Previous Contamination Reports	6
2.4.1 Phase 1 2020	6
2.5 Integrity Evaluation of Information	7
3 Environmental Setting.....	8
3.1 Regional Soil and Geology	8
3.2 Topography and Drainage	8
3.3 Regional Groundwater	8
3.4 Acid Sulfate Soils.....	9
4 Assessment Methodology	10
4.1 Data Quality Objectives	10
4.2 Basis to Sampling.....	12
4.3 Field Sampling Program.....	13
4.3.1 Sample Analyses	13
4.4 Quality Assurance and Quality Control	14
5 Assessment Criteria	16
5.1 Notes on Adopted Soil Criteria.....	16
6 Results and Discussion	19
6.1 Field Inspection and Observations	19

6.2	Soil Results	20
6.2.1	Asbestos	20
6.2.2	Inorganic Metals.....	20
6.2.3	Organic Compounds	20
6.2.4	Aesthetics	21
6.3	Conceptual Site Model	21
6.3.1	Contamination Sources and Contaminants of Concern.....	21
6.3.2	Potential Receptors and Exposure Pathways.....	21
7	Quality of Analytical Data	23
8	Conclusions	26
8.1	Recommendations	27
9	References	28
10	Limitations	29

Tables

Table 2-1	Site Identification.....	3
Table 4-1	Sampling Locations and Rationale	12
Table 4-2	Soil Sampling Works Summary	13
Table 4-3	Sample Analysis Schedule	14
Table 6-1	Contamination Sources and Contaminants	21
Table 7-1	Data Quality	23

Appendices

Appendix A	Figures
Appendix B	Results Tables
Appendix C	Aerial Imagery
Appendix D	Site Photographs
Appendix E	Test Pit Logs
Appendix F	Laboratory Analytical Certificates
Appendix G	Co-ordinates of Sampling Locations

Introduction

Mirvac Homes (NSW) Pty Ltd engaged Sullivan Environmental Sciences Pty Ltd to conduct a Detailed Phase 2 Site Contamination Assessment (the Phase 2) of the property at 531 Cobbitty Road, Cobbitty NSW 2570, henceforth referred to as 'the site'. The site is identified as Lot 2005 in Deposited Plan (DP) 1162239 with an area of approximately 80 hectares (approx. 800,000m²). The site location is shown on Figure 1 (**Appendix A**).

It is understood that the site is earmarked for residential subdivision, subject to planning approval. A preliminary Phase 1 site contamination assessment was completed in 2020 (DP, 2020¹), and found a number of Areas Of Concern (AEC's) at the site requiring additional investigation to understand the contamination risks those areas may pose to any future development of the site.

1.1 Objectives

The Phase 2 objectives were to:

1. Assess identified AEC's for contamination risks; and
2. Assess potential contamination health risks for future use of the site for sensitive residential land use.
3. Provide recommendations for additional investigations or remediation, if required.

1.2 Scope of Work

Our scope of work to complete the Phase 2 included:

Background Review and Fieldwork

- Reviewing the preliminary Phase 1 assessment (DP, 2020) report, the Land Capability and Contamination Assessment (LCCA) (DP, 2007) report, and the Heritage Assessment (GML, 2007).
- Reviewing historical aerial images dating back to 1947 to verify site activities as reported in previous reports.
- Preparing a safety and sampling work plan for all field-based work on the site.
- Conducting a detailed inspection of the site and survey underground services using Dial-Before-You-Dig service plans and a Telstra accredited cable locator to clear and confirm proposed sampling locations.
- Using a backhoe machine and hand auger, investigate the AEC's identified in the Phase 1 report.
- Using a Non-Destructive Drilling (NDD) potholing technique, expose live services at specified locations and perform a visual inspection.
- Dispatching collected samples of soil and other materials (including QA/QC samples) to a NATA accredited laboratory for analysis of a suite of contaminants.

¹ Douglas Partners Pty Ltd, Report on Preliminary Site Investigation – Contamination, Proposed Residential Subdivision, Lot 2005 DP1162239 Cobbitty NSW, 14 February 2020

Reporting

- Independently preparing a Phase 2 contamination assessment report in consideration of the Reporting Guidelines (EPA, 2020) and Schedule B2 of the National Environment Protection (Assessment of Site Contamination) Measure 2013 (ASC NEPM 2013).

1.3 Regulatory Framework

The Phase 2 was conducted in consideration of the following regulatory framework and guideline documents. A full list of reference documents is presented in Section 9.

- Contaminated Land Management Act 1997 (CLM Act).
- Contaminated Land Guidelines: Consultants Reporting on Contaminated Land, 2020 (NSW EPA 2020).
- DUAP/NSW EPA, Managing Land Contamination: Planning Guidelines, SEPP 55 – Remediation of Land, 1998.
- Guidelines for the NSW Site Auditor Scheme (3rd Edition), 2017 (NSW EPA 2017).
- National Environment Protection (Assessment of Site Contamination) Measure 2013 (ASC NEPM 2013).
- Oran Park Precinct – Development Control Plan 2007.
- Sampling Design Guidelines, 1995 (NSW EPA 1995).
- State Environmental Planning Policy No.55 – Remediation of Land 1998 (SEPP55).
- State Environmental Planning Policy (Sydney Region Growth Centres) 2006.
- Sydney Regional Environmental Plan No 20—Hawkesbury-Nepean River (SREP20).

1.4 Consultant's Competency and Certification

All contamination assessment work and reporting were conducted by the professionally trained team at Sullivan-ES. The Project Team consisted of the following members:

1. Adam Sullivan who has over 23 years of experience in contaminated land assessment and remediation. Adam is a certified Site Contamination Specialist (CEnvP-SC) under the Certified Environmental Practitioner Scheme (www.cenvp.org) and has reviewed and approved this report in the capacity as a CEnvP-SC and Principal Scientist.
2. Sean Guenther who has over 20 years of experience in contaminated land assessment and remediation and has prepared this report in his capacity as Senior Associate.

Site Information

The information provided in this section is summarised from the following:

- Information provided by Mirvac Homes (NSW).
- Previous reports:
 - Phase 1 (DP 2020).
 - LCCA (DP 2007).
 - Heritage Assessment (GML 2007).
- Fieldwork observations and sampling undertaken by Sullivan-ES.

2.1 Site Description

The site location, land zones and site layout are shown on Figures 1, Figure 2 and Figure 3, respectively (**Appendix A**). The following information identifies the site.

Table 2-1 Site Identification

Attribute	Details
Address	531 Cobbitty Road, Cobbitty NSW 2570
Title Identification	Lot 2005 DP 1162239
Property Area	Approximately 800,000m ² – 80 hectares
Owner/operator	Mirvac Homes (NSW) Pty Ltd
Local Government	Camden Council
Land use zone/s ²	R1 – General Residential B1 – Neighbourhood Centre C2 – Environmental Conservation C4 – Environmental Living
Land uses	Past: Grazing farmland, farm dam Current: Grazing farmland, farm dam, sewer pump station and infrastructure Future: Proposed subdivision in accordance with land zone permissible uses
Geographic Coordinates (approx. centre of site)	-34° 0' 36", 150° 42' 38"

2.1.1 Surrounding Land Use

Land surrounding the site consists of the following. Refer to Figure 2 (**Appendix A**) for land zones.

North: Rural residential farmland – heritage listed Denbigh Farm (zoned C4 – Environmental Living).

² Renaming of environmental zones - As of 1 December 2021, a reference to an Environment Protection zone E1, E2, E3 or E4 in a document should be taken to be a reference to a Conservation zone C1, C2, C3 or C4 under the Standard Instrument (Local Environmental Plans) Amendment (Land Use Zones) Order 2021.

South: Cobbitty Road then onto bushland (zoned C2 – Environmental Conservation) and residential neighbourhoods (zoned C4 – Environmental Living). Central on the southern site boundary is an existing rural residential dwelling that does not form part of the site (zoned R1 - General Residential and C4 - Environmental Living).

East: At the north end are residential dwellings (zoned R1 - General Residential), south end is Macarthur Anglican School (zoned R1 - General Residential) and centrally is a creek feeding into the large dam onsite and agriculture plots of the School (zoned C2 – Environmental Conservation).

West: Rural residential farmland (zoned RU1 – Primary Production).

2.1.2 Future Development

Sullivan-ES has not been provided with plans or layouts of the proposed residential subdivision. We assume that the land zone map (Figure 2 – **Appendix A**) will dictate where residential dwellings will be located as well as any public open space and/or commercial zonings. It is not known whether the existing farm dam would be incorporated into the proposed development or be decommissioned to make way for permissible uses under the existing land zones.

2.2 Site History

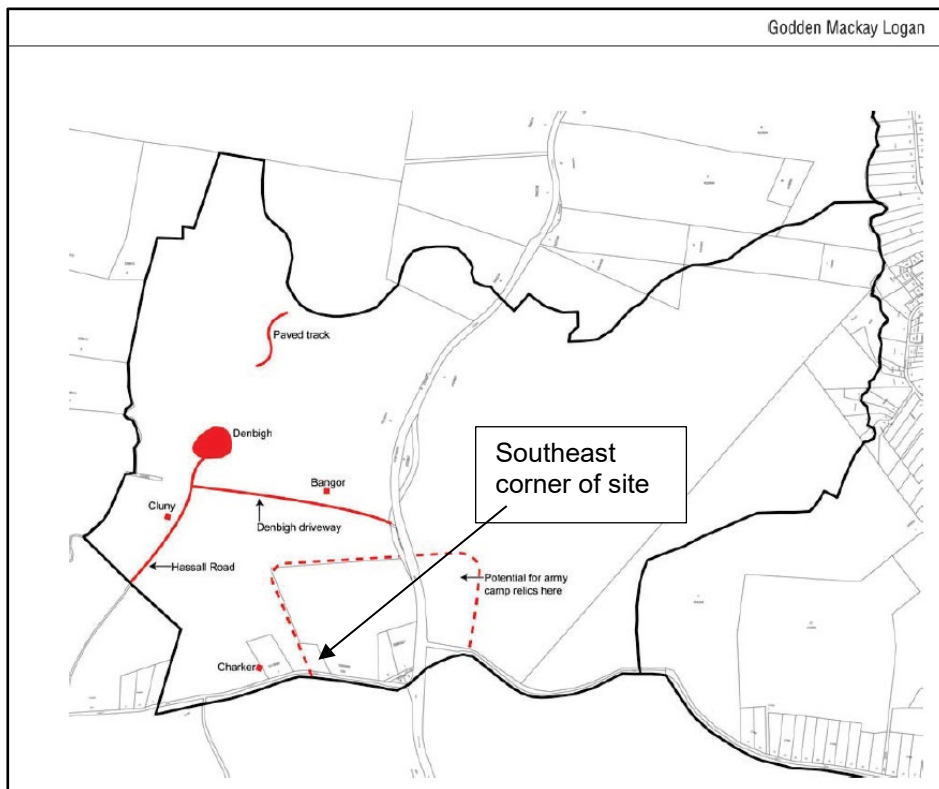
The following information is sourced from the Phase 1 (DP 2020), the LCCA (DP 2007) and the Heritage Assessment (GML 2007).

In summary the site history indicates that the site has been used predominately for agricultural land use (grazing and low intensity cropping).

The Phase 1 undertook a review of the historical aerial photographs provided in the LCA and stated that the wall of the farm dam was constructed between 1984 and 1994; however, a review of additional aerial images (refer image 1956, Section 2.2.1 below) shows that the dam was actually built between 1947 and 1956. The wall of the farm dam was most likely made from locally sourced natural material.

Sydney Water Corporation (SWC) infrastructure works were undertaken at the site in 2011. The Phase 1 stated that, with regards to the SWC works, no material was imported other than construction materials, such as sands and gravels. The works generated an excess of material which was subsequently exported from the site.

The Heritage Assessment (GML, 2007) reported that an army camp was established to the east of site around the early 1940s, where the Macarthur School is currently located. After WW2, the camp was decommissioned. The Heritage Assessment (GML, 2007) indicates (as shown below) that the southeast corner of the site may have been within the army camp grounds at that time. This could explain the presence of the two concrete structures onsite near the influence of the dam and downhill of the old army camp. The Phase 1 (DP, 2020) reported that these structures may have been used for irrigation or effluent treatment and may contain underground feeder pipes.



Source: GCC Oran Park Precinct – Heritage Assessment, Godden Mackay Logan 2007

2.2.1 Aerial Imagery

Sullivan-ES conducted a review of historic aerial images to verify historical site information presented in past reports. Aerial imagery is presented in **Appendix C**. In summary, the two concrete structures present on the eastern dam edge were constructed before 1947, presumably as part of the army camp offsite to the east. The farm dam was built between the years 1947 and 1956; while the part of the site formerly within the army camp does not appear to have been disturbed by army activity to a degree that would pose a contamination risk. This area of the site appears to have been undisturbed pastures for many years.

1947

Aerial imagery from 1947 shows the concrete structures observed onsite were present just after the time of the army camp, suggesting there is a historic connection. There appears to be some connecting pipework from the army camp to the structures in the 1947 image.

The 1947 image also shows part of the site that was possibly within the former army camp that was predominately established further east. The image shows what appears to be some soil disturbance; however the image is of low resolution. There are no buildings or structures in this area of the site suggesting that the army may not have specifically used this part of the site within the army camp.

1956

The 1956 image clearly shows the dam present at that time. The concrete structures are visible on the eastern edge of the dam, while the area formerly within the army camp appears to be grazing land and some remnant bush.

1961 and 1970

The 1961 image shows the farm dam and concrete structures, and again the former army camp area is grazing land.

2005

The 2005 image shows that no changes of any significance occurred in this area of the site since 1970.

2009 and 2019

Nearmap image Nov 2009 shows the water pipe (identified as AEC 8 in the Phase 1) running over the eastern part of the dam. The July 2019 image shows the water pipe has been cut off and lays on the ground on the eastern edge of the dam.

2.3 Site Inspection and Condition

Mr Adam Sullivan, Principal Scientist of Sullivan-ES, completed an inspection of the site on 10 December 2021. The site layout and current features are identified on Figure 3 (**Appendix A**), while photographs are presented in **Appendix D**.

Sullivan-ES concur with the observations reported in the Phase 1 (DP 2020) and the site does not appear to have changed since that time. The following items characterise the site:

- The site predominately consists of grassland paddocks.
- A large farm dam covers the central portion of the site with a spillway at its southwest corner feeding a small creek flowing west to join with Cobbitty Creek that entered the site from the south. Cobbitty Creek, thereafter, flows northwest offsite. The farm dam was measured using Nearmap imagery to be approximately 90,000m² (9.0 hectares or approximately 10% of entire site). The capacity of the farm dam is unknown; however it has been present onsite in its current state for some 70 years (circa 1950).
- The Sydney Water Corporation (SWC) sewage pump station was constructed on a raised earth platform. Manholes and vent pipes were evident at specific locations over the site.
- An asphalt sealed internal road joins the pump station to the entry driveway off Cobbitty Road. This entrance is also for Denbigh Farm which can be accessed via a gravel road heading north up the hill from the internal road to the farm entrance gates.
- Parts of the farm tip identified as AEC 11 lay across the Lot boundary and extended offsite a short way (as shown on Figure 5 – **Appendix A**).
- The concrete structures identified as AEC 12, were filled with dumped waste materials and water. The structures are identified as AEC 12(N) and AEC 12(S) to separately identify the structures according to their north and south positions.
- AEC 12(S) was approximately 1.0m deep along the outside edge of the pit and approximately 2.0m deep in the central outlet pit at its western side. An outlet pipe was visible at the base of the pit presumably running west. This structure was overgrown with vegetation also.
- All other site features as reported in the Phase 1 (DP 2020) have not changed.

2.4 Previous Contamination Reports

2.4.1 Phase 1 2020

The Phase 1 was undertaken to support a submission to Camden Council for the proposed redevelopment of the site for residential land use. The objectives were to review available site information, inspect the site, identify key past or present potentially contaminating activities and to provide a preliminary assessment of the contamination status of the site.

The Phase 1 identified 13 Areas of Environmental Concern (AEC) at the site (as listed in Table 4.1 below), summarised as follows:

- Suspected asbestos pipes at AEC 1, AEC 8, AEC 9, AEC 10 and AEC 12.
- Timber power pole impacted soil at AEC 2.
- Sydney Water Corporation infrastructure works at AEC 3, AEC 4, AEC 5, AEC 6 and AEC 7.

- Farm tip and impacted fill at AEC 11, AEC 12 and AEC 13.

The Phase 1 concluded:

“Based on the results of this PSI, DP considers that the potential for significant contamination constraints other than the identified AEC is low.

A DSI with limited sampling is recommended to ascertain the extent of each AEC and the presence or absence of related potential contaminants of concern. Further investigations should focus principally on the identified AEC, as well as limited assessment of other (background) areas of the site to investigate the contamination status of the soils.

It is considered that the site could be rendered suitable for the proposed residential subdivision, subject to further investigation and remediation, if required. As with any broad scale preliminary assessment, the potential remains for additional AEC to be present within the site. These may be identified during further investigation or development works.”

2.5 Integrity Evaluation of Information

Information was collected from a number of sources for the purposes of this Phase 2. Government information sources are considered accurate and without bias. Information sourced from previous contamination assessments provide a reasonably clear indication of the historical land use and contamination status of the site at the time of the work, which is sufficient for the purposes of this investigation. Some discrepancies and deficiencies were identified within the Phase 1 report, including:

- Site history appraisal did not evaluate the use of part of the site as an army camp.
- The farm dam is of significant size being approximately 9.0 hectares (90,000m²) and has been present onsite for approximately 70 years. The Phase 1 identified onsite dams as potential risks for contamination associated with agricultural activities, however the farm dam was not included in the Phase 1 as a Potential AEC or an AEC requiring further investigation to assess contamination risk.
- Reference to the construction year of the farm dam was incorrect.
- An evaluation of potential contamination arising from offsite was not provided.
- The total number of counted power poles onsite was incorrect as there was an additional pole identified during our Phase 2 field work.
- There was no reference to the consultants reporting guidelines (NSW EPA 2020), albeit the Phase 1 was issued February 2020 two months prior to the final guideline version in April 2020, no reference to the preceding guideline (NSW OEH 2011) was provided.
- There was no executive summary provided.
- There was no references list provided.

Sullivan-ES undertook additional historical appraisal to infill data gaps. The deficiencies identified in the Phase 1 do not impact the overall integrity of background information. Sullivan-ES therefore consider the background information to be of an acceptable standard for evaluating contamination risk in accordance with the requirements under SEPP 55 and the SEPP 55 Guidelines.

Environmental Setting

3.1 Regional Soil and Geology

The Phase 1 (DP 2020) reported that the majority of the site is underlain by Bringelly Shale Formation of the Wianamatta Group comprising of shale, carbonaceous claystone, claystone, laminite, fine to medium-grained lithic sandstone, rare coal and tuft from the Middle Triassic period.

The Phase 1 (DP 2020) reported that most of the site comprises alluvial soils of the Richmond Landscape with some limited areas within the southern portion of the site comprising residual soils of the Blacktown Landscape.

The Richmond Soil Landscape is associated with the alluvial flat and adjacent foot slopes around Cobbitty Creek. Soils are characterised by mostly flat terrace tops, terrace edges and levees providing low relief of up to 10 m. The alluvial soils are poorly structured orange to red clay loams, clays and sands. Ironstone nodules may be present.

The Blacktown Landscape is found on gently undulating rises and broad rounded crests and ridges with gently inclined slopes on Wianamatta Group Shales and Hawkesbury Shale. Soils are characterised by deep yellow podzolic soils and soloths on lower slopes and in areas of poor drainage. Limitations include moderately reactive highly plastic subsoil, low soil fertility and poor soil drainage.

3.2 Topography and Drainage

The Phase 1 (DP 2020) reported that the site topography ranges from 92m relative to Australian Height Datum (AHD) in the northeast of the site, to 68m AHD along the central western and north western site boundaries.

Cobbitty Creek flows in a south to north direction through the centre of the site. The large dam onsite is approximately 9.0 hectares in size and located in the central eastern portion of the site. The dam is feed by a drainage line from the east. Topography in the eastern half of the site slopes towards the dam and Cobbitty Creek. Surface water flows within the site would likely follow the site gradient.

3.3 Regional Groundwater

The Phase 1 (DP 2020) reported that a search for registered groundwater bores within a 1 km radius of the site identified four registered bores for stock and/or domestic purposes. Groundwater was encountered at depths from 23m to 63m below ground level. Groundwater depth was not established on the site during previous groundwater wells installation and testing done in the LCA (DP 2007).

According to eSPADE mapping tool from Office of Environment & Heritage³, the site is situated in the Cawdor Hydrogeological Landscape and characterised by the following traits:

- Aquifer Type: Unconfined in unconsolidated alluvial sediments. Unconfined to semi-confined in fractured rock along structures. Vertical and lateral flow components. Local perching above clay-rich layers (seasonal).
- Depth to Watertable: Shallow to intermediate (range: 0-8 m).
- Hydraulic Conductivity: Moderate (range: 10⁻²-10⁻¹ m/day).

³ <https://www.environment.nsw.gov.au/eSpade2Webapp#>

- Salinity: Saline (range: >4.8 dS/m).

Nepean River is the closest major water body, 3.5km to the west. It is assumed that regional groundwater flows in a westerly direction generally following the local topography slope towards the west.

3.4 Acid Sulfate Soils

In accordance with the Atlas of Australian Acid Sulfate Soils⁴, the probability of occurrence of Acid Sulfate Soils on the site is stated to be extremely low. As such, the site is not located on land that would comprise a risk from acid sulfate soils.

⁴ <https://www.asris.csiro.au/themes/AcidSulfateSoils.html>

Assessment Methodology

4.1 Data Quality Objectives

The Data Quality Objectives (DQOs) for the assessment are based on guidance presented in the ASC NEPM 2013 – Schedule B2. The DQOs establish a framework for contamination investigations, which incorporates a seven-step process that defines the problem at the site and then optimises the design of the investigation.

Step 1 - State the Problem

The problems under investigation were

- To assess the AECs identified in the preliminary Phase 1 site contamination assessment (DP 2020) to understand the contamination risks those areas may pose to any future development of the site.

Step 2 - Identify the Decision

The principal study questions that arise from Step 1 were:

- Has the presence and extent of contamination in the various environmental media been defined onsite?
- Are or will human and environmental receptors be exposed to contamination and is the risk posed by contamination unacceptable requiring intervention?
- Is the site suitable, in the context of land contamination, for the proposed low-density residential land use scenario?

Step 3 - Identify Inputs to the Decision

Primary inputs to making a decision are:

- Available and reliable environmental data obtained from historical reports.
- New data and observations made during field works.
- Results of chemical analyses of samples collected.
- Statistical data of new and existing data sets.
- Assessment of the suitability of new data for the purposes of environmental assessment through application of data quality indicators (DQIs).
- Assessment of the data in the context of the adopted investigation criteria, refer to Section 5.
- Develop/revise the Conceptual Site Model.
- Characterisation of risk.

Step 4 - Define the Study Boundaries

Spatial boundaries were limited to:

- Lateral – Defined by the site boundary as shown on Figure 3 (**Appendix A**).
- Vertical – collection of new data will be confined to the surface and fill layers onsite in soil to a maximum depth dictated by test pit excavations.

Previous, existing and anecdotal data would be used to supplement the study boundaries as required.

Temporal boundaries are defined within the limitations of this report.

Step 5 - Develop a Decision Rule

The decision rule for this assessment will be:

- If the concentration of any analysed contaminant in collected samples exceed adopted investigation criteria for the land use; then characterise and assess risk to relevant receptors.
- If the risk posed by contaminants is shown to be unacceptable for the land use, then make recommendations to ameliorate contaminants (remediation) such that the risk is made acceptable and the site made suitable.

A decision on the acceptance of analytical data will be made on the basis of the Data Quality Indicators (DQI) that are compliant with PARCC parameters PARCC parameters for field-based activities as follows.

Field-Based Activities

Precision: A quantitative measure of the variability (or reproducibility) of data. Intra and Inter laboratory duplicates were collected at a rate of one duplicate per 10 primary samples collected (i.e. 10% or an equivalent of 5% each). The relative percent difference (RPD) of the detected concentrations in the parent and duplicate was calculated with the following acceptable limits.

- No RPD limit <10 times LOR.
- 50% RPD limit 10-20 times LOR.
- 30% RPD limit >20 times LOR.

Accuracy: A quantitative measure of the closeness of reported data to the “true” value, applying the following acceptable limits.

- Rinsate and/or field blanks <LOR.

Representativeness: The confidence (expressed qualitatively) that data are representative of each media present on site, with the following conditions met.

- Appropriate sampling methods adopted, and media sampled, and chemicals analysed (Step 7).

Completeness: A measure of the amount of useable data from a data collection activity, with the following conditions met.

- Appropriate Standard Operating Procedures (SOPs), and experienced staff (> 2yrs experienced), and documentation collected (logs, COC, instrument calibration, water monitoring readings). Refer Step 7.

Comparability: The confidence (expressed qualitatively) that data may be considered to be equivalent for each sampling and analytical event, with the following conditions met.

- Appropriate Standard Operating Procedures (SOPs), and experienced staff (> 2yrs experienced). Refer Step 7.
- Appropriate sample handling and preservation, and field conditions (Step 7).

Analytical Laboratory-Based Activities

Analytical laboratories operating under a NATA accreditation were assessed based on their internal and accreditation performance. As standard, a suitable internal QA/QC program is employed to include analysis of method blanks, matrix spikes, surrogate spikes, laboratory control samples and laboratory duplicates. The laboratory will report on whether the QA/QC analysis meets the laboratory’s adopted internal data quality objectives.

Step 6 - Specify Limits on Decision Errors

Specific limits for this project are in accordance with the appropriate guidance made or endorsed by state and national regulations, appropriate indicators of data quality, and industry standard procedures for field sampling and handling.

This step also examines the certainty of conclusive statements based on the available new site data collected. This includes the following points to quantify tolerable limits:

- A decision can be made based on a certainty assumption of 95% confidence in any given data set. A limit on the decision error will be 5% that a conclusive statement may be a false positive or false negative.

In order for decision rules to be sound, they were designed to minimise decision errors. The risk of decision error was mitigated by:

- Ensuring fieldwork tasks were undertaken by suitably experienced field staff and sub-contractors, with reference to the DQOs presented in this report;
- Ensuring laboratory analyses were undertaken by NATA accredited laboratories; and
- Ensuring interpretation of data was undertaken by suitably experienced environmental consultants and/or outsourcing interpretation to technical experts (if warranted).

Step 7 - Optimise the Design

The sampling program designed for this investigation as described in section 4.2 was aimed at obtaining the necessary data to make the decision identified in Step 2. Subsequent sections detail the sampling program employed.

4.2 Basis to Sampling

The sampling approach was based on a combined judgemental and systematic sampling pattern and focussed on the AECs as reported in the Phase 1. The table below presents the sampling locations and rationale that formed the basis to our sampling design. All sampling locations are presented on Figures 3, 4 and 5 (**Appendix A**). GPS co-ordinates of each sample location are presented in **Appendix G**.

Table 4-1 Sampling Locations and Rationale

AEC #	Contamination Source	Approximate Area or Extent	Scope of Sampling
1	Underground irrigation pipe	630 lineal m	Utility remains in use. Non Destructive digging (NDD) to expose pipe location
2	Telegraph power poles	18 poles	Hand auger at base of each pole
3	SWC former internal access road	620 lineal m	Test pits to 0.5m depth at an evenly spaced interval
4	SWC former compound #1	900m ²	Test pits to 1.0m depth on an even spaced grid
5	SWC former compound #2	5,500m ²	Test pits to 1.0m depth on an even spaced grid
6	SWC former sediment basins	1,000m ²	Test pits to 3.0m depth on an even spaced grid
7	SWC former stockpiling area	20,000m ²	Test pits to 1.0m depth on an even spaced grid

AEC #	Contamination Source	Approximate Area or Extent	Scope of Sampling
8	Buried water pipe	1,000 lineal m	Test pits to expose pipe on an evenly spaced interval
9	Telstra cable	200 lineal m	Utility remains in use. Non Destructive digging (NDD) to expose pipe location
10	Asbestos cement pipe	5 lineal m	Grab sample(s)
11	Farm tip	800m ²	Test pits to expose wastes
12	Concrete structures	200m ²	Test pits to expose surrounding soils and wastes dumped into structures
13	Filled creek	1,000m ²	Test pits to 1.0m depth on an evenly spaced grid

4.3 Field Sampling Program

Details of the field sampling program are presented below.

Table 4-2 Soil Sampling Works Summary

Activity/Item	Details
Date of Field Activities	10 December 2021 – site inspection and underground service locating. 13 to 17 December 2021 - soil sampling and NDD potholing.
Soil Logging and Inspection of Material	Soil classifications and descriptions are based on Australian Standard AS1726-1993 Geotechnical Site Investigations. All material exposed at each sample/inspection location was thoroughly inspected for the presence of potential Asbestos Containing Material (ACM). Soil descriptions for the lithology encountered during sampling are presented in the bore logs in Appendix E .
Soil Sampling	Soil samples were taken directly from each formed test pit wall or from the bulk material collected in the backhoe bucket or directly from the hand auger head using single use disposable nitrile gloves.
Decontamination Procedures	Sampling tools were decontaminated between sampling locations with potable water and a solution of Liquinox. Single use disposable nitrile gloves were worn at all times and changed between each soil sample.
Sample Preservation	Samples were placed in laboratory-supplied jars containing appropriate preservatives or suitable asbestos sampling bags. Samples were stored on ice in a cooler while on-site and in transit to the laboratory.
Disposal of Soil Cuttings and Materials	Soil cuttings/spoil were used to backfill boreholes once samples had been collected. Single use materials used during sampling were placed into garbage bags and disposed off-site. No soil cuttings/spoil were disposed offsite as part of this Phase 2 investigation.

4.3.1 Sample Analyses

Samples were analysed in accordance with the table below.

Table 4-3 Sample Analysis Schedule

	TRH/TPH BTEXN	PAHs	Metals	Asbestos ID in soil	Asbestos ID in material	Phenols	PCBs, OCPs and OPPs
Primary Soil Samples	73	62	73	53	-	17	50
QA/QC – Intra-lab field duplicates	9	8	9	-	-	1	1
QA/QC – Trip Blank/Trip Spike	2	-	-	-	-	-	-
Material samples	-	-	-	-	6	-	-
Total all samples	90	70	82	53	6	18	51

Table notes: Total Petroleum/Recoverable Hydrocarbons (TPH/TRH), Benzene, Toluene, Ethylbenzene, Total Xylenes and Naphthalene (BTEXN), Polycyclic Aromatic Hydrocarbons (PAHs), Metals (As, Cd, Cr (total), Cu, Hg, Ni, Pb, Zn), Organochlorine Pesticides (OCPs), Organophosphorous pesticides (OPPs) and Polychlorinated biphenyls (PCBs).

4.4 Quality Assurance and Quality Control

Quality Assurance and Quality Control (QA/QC) was governed on the basis of the Data Quality Indicators (DQI) using PARCC parameters as listed in the DQOs (Step 5) and reproduced as follows:

- Precision: A quantitative measure of the variability (or reproducibility) of data.
- Accuracy: A quantitative measure of the closeness of reported data to the “true” value.
- Representativeness: The confidence (expressed qualitatively) that data are representative of each media present on site.
- Completeness: A measure of the amount of useable data from a data collection activity.
- Comparability: The confidence (expressed qualitatively) that data may be considered to be equivalent for each sampling and analytical event.

The Phase 2 was completed following standard operating procedures for conducting site contamination investigations. Standards followed included:

- General field documentation
- Health and safety
- Use of Personal Protective Equipment (PPE)
- Representative sample collection and labelling
- Equipment calibration
- Chain of Custody documentation for analytical samples
- Decontamination
- Collection of quality control samples (that may include: intra laboratory, inter laboratory, rinsates, blanks, spikes).

The data validation adopted for this assessment was based on the following guidance documents:

- Schedule B2 of the National Environment Protection (Assessment of Site Contamination) Measure (ASC NEPM 2013).
- Australian Standard 4482.1 Guide to the investigation and sampling of sites with potentially contaminated soil, Part 1: Non-volatile and semi-volatile compounds, 2005.

- USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (EPA 540-R-10-011, dated January 2010).
- USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (EPA 540/R-99/008, dated June 2008).

The data validation process involves the checking of analytical procedure compliance and the assessment of the accuracy and precision of analytical data from a range of quality control measurements generated from both field sampling and analytical programs. Specific elements that have been checked and assessed for this project include:

- preservation and storage of samples upon collection and during transport to the laboratory,
- holding times
- use of appropriate analytical procedures and required LOR
- frequency of conducting quality control measurements
- laboratory blanks & laboratory duplicates
- field duplicates
- matrix spike/matrix spike duplicates (MS/MSDs)
- surrogates (or System Monitoring Compounds)
- the occurrence of apparently unusual or anomalous results.

Assessment Criteria

Our understanding is the site is earmarked for low density residential subdivision, subject to planning approval. The proposed site development is to contain single lot low density residential premises along with dedicated public open space and some commercial lots commensurate with permissible uses for land zones.

Given that the final design layout of the sub-division is not known, at this stage our adopted assessment criteria reflects the sensitive nature of human and environmental receptors as occupants and inhabitants of low-density residential land with accessible soils and gardens. The following criteria were adopted for assessing soils as listed in Table 1 (**Appendix B**):

- HIL A and HSL A - Residential with garden/accessible soil also including childcare centres, preschools and primary schools.
- EIL/ESL – Urban residential/public open space.
- Management Limits – Residential, park land and public open space.
- Asbestos HSLs – Residential A.
- Soil Aesthetics.

The National Environment Protection (Assessment of Site Contamination) Measure 2013 (ASC NEPM 2013) recommends using statistical analysis to assess the laboratory data for soil samples against the health-based criteria to inform remediation and or further investigation, if required. The data set will be as assessed against the following criteria:

- No single value should exceed 250% of the relevant criteria (i.e. contamination hotspot);
- The 95% Upper Confidence Limit (UCL) value of the arithmetic mean concentration of each contaminant should be less than the criteria; and
- The standard deviation (SD) of the results should be less than 50% of the relevant criteria.

Statistical calculations are not required, if all results are below the criteria. The criteria adopted for the assessment are presented in Table 1 (**Appendix B**).

5.1 Notes on Adopted Soil Criteria

ASC NEPM 2013 Health-based Investigation Levels (HILs)

The ASC NEPM 2013 Health-based Investigation Levels (HILs) in Schedule B1 provide a framework that is applicable for assessing human health risk via all relevant pathways of exposure and covers a broad range of metals and organic substances. Different levels are provided for a variety of exposure settings based on the land use scenario at a particular site. The HIL land use criteria adopted for this site is:

- **HIL A:** Residential with garden/accessible soil also including childcare centres, preschools and primary schools.

ASC NEPM 2013 Health Screening Levels

The ASC NEPM 2013 HILs in Schedule B1 do not provide criteria for petroleum hydrocarbon chemicals, therefore the Health Screening Levels (HSLs) were developed and form part of the ASC NEPM 2013 in Schedule B1. The ASC NEPM 2013 – HSLs are designed to be protective of human health and are applicable to assessing human health risk via the inhalation pathway. The HSLs used in this report have

not been adjusted for site specific parameters such as moisture content for this phase of work. HSLs are available for various depth profiles and predominant lithology (sand, silt and clay).

The HSL land use criteria adopted for the Assessment was:

- **HSL A:** Residential with garden/accessible soil also including childcare centres, preschools and primary schools.

HSLs relevant to the top 1.0m of soil with a clay consistency were adopted.

HSLs for direct contact were also adopted from Table 4 of CRC CARE Technical Report No. 10 by Friebe and Nadebaum (2011).

Ecological Investigation/Screening Levels

The ASC NEPM 2013 Ecological Investigation levels and Ecological Screening Levels (EILs and ESLs) have been developed for selected metals and organic substances and are applicable for assessing risk to terrestrial ecosystems. EILs depend on specific soil physicochemical properties, whereas ESLs do not, and both are relevant to land use scenarios and apply to the top two metres of soil. EILs take into account soil texture and age of the impacts, whereas ESLs account only for soil texture.

The ASC NEPM 2013 EIL calculation spreadsheet was used to calculate aged EILs from assumed soil variables for pH, CEC and clay content. Derived EILs were calculated using the following assumed variables:

- CEC (10 cmol(+)/kg).
- pH (6.5).
- OC (1%).
- Clay (10% for Chromium).
- in NSW and low traffic volumes.

ASC NEPM 2013 Asbestos Health Screening Levels

The ASC NEPM 2013 asbestos HSLs have been developed for managing land use impacts associated with asbestos and are applicable for assessing risk to human health. The guideline has been derived from the Western Australian Department of Health (WA DoH 2021) guidance. The guidance covers bonded Asbestos Containing Material (bonded ACM), Fibrous Asbestos (FA) and Asbestos Fines (AF).

Visual identification and subsequent laboratory analysis were used to assess for potential asbestos containing materials (ACMs) such as fibro sheeting. The ASC NEPM 2013 Asbestos HSLs include a qualitative approach such that no visible asbestos should be at the soil surface for all forms of asbestos. This qualitative approach was adopted for this investigation. Note, the quantitative criteria (i.e. percentage of asbestos materials) were not used in this Phase 2 given that the analysis was to determine the presence of asbestos only and not to quantify asbestos materials in soils.

ASC NEPM 2013 Management Limits

The ASC NEPM 2013 Management Limits in Schedule B1 are relevant for TRH contaminants only. The Management Limits are specific for soil types (coarse and fine) and land uses. If adopted on a site, Management Limits are intended to avoid or minimise the potential effects of the following and require consideration of site-specific factors to determine the maximum depth to which the limits should apply:

- Formation of observable light non-aqueous phase liquids (LNAPL).
- Fire and explosive hazards.
- Effects on buried infrastructure e.g. penetration of, or damage to, in-ground services by hydrocarbons.

ASC NEPM 2013 Aesthetic Considerations

In accordance with the ASC NEPM 2013 in Schedule B1 the aesthetic state of sites is required to be taken into account. Aesthetic issues generally relate to the presence of materials with a negligible risk or non-hazardous inert foreign material in soil or fill resulting from human activity. Sites that have been assessed as being acceptable from a human health and environmental perspective may still contain such foreign anthropogenic material. An assessment of the site aesthetics requires consideration of the natural state of soil on any given site, and a comparison between it and the soil encountered during investigations.

In particular, soils on site should not exhibit discolouration (staining), a malodorous nature (odours), abnormal consistency (rubble and trash) or show visible evidence of industrial wastes.

Results and Discussion

6.1 Field Inspection and Observations

Representative site photos are presented in **Appendix D**. The following notable observations were made while conducting the Phase 2 fieldwork:

- AEC 1 – NDD potholing at five (5) locations along the length of the irrigation pipe exposed the pipe at a nominal depth of 300mm along the alignment as shown on Figure 3. The pipe is 180mm in diameter. The pipe was considered relatively robust and a surface scrape of the pipe at location NDD1 was performed to collect a sample of the pipe material (F05) for laboratory analysis.
- AEC 2 – An additional power pole (PP19) was present onsite that was not identified in the Phase 1. No soil sample was collected from power pole PP3 as the location was surrounded by swampy ground and was inaccessible by foot or vehicle. No soil sample was collected from power pole PP6 as the location was within an area fenced off by barbed wire and inaccessible by foot or vehicle.
- AEC 3 – Gravelly materials and some bitumen in the surface layers were identified along the former SWC access road alignment.
- AEC 4 – Some gravelly surface layers were identified as evidence of former SWC activity.
- AEC 5 and AEC 7 – No gravels or hardstand material were identified in these areas as evidence of former SWC activity, the exception was at locations TP19, TP20, TP21 where extraneous gravels, brick and ceramic were identified in surface layers. A four-inch and two-inch polypipe was exposed at TP21 at a depth of 0.4m. Both pipes appeared disused.
- AEC 6 – Former sediment ponds were identified at locations TP06, TP07, TP08 and TP09, backfilled to a depth a maximum depth of 1.4m deep with reworked natural soils.
- AEC 8 – A long trench (25m long by 0.4m wide by 0.7m deep) was excavated perpendicular to the fence line site boundary in an attempt to locate the disused water pipe. The pipe was not located by this work, however a shallow scrape of the ground surface abutting the fence unearthed the pipe at a shallow depth of 300mm which was made of plastic polypipe. Test pit excavations along the eastern boundary fence line north of the dam did not identify the water pipe, as such, it appears that the water pipe was removed north of the dam as shown in the aerial images 2009 to 2019 (**Appendix C**).
- AEC 9 - The accredited service locator engaged to locate buried services confirmed a cable is direct buried in the area identified in the Phase 1 as AEC 9. The service locator confirmed that it was unlikely the cable would be encased in asbestos conduit, based on DBYD plans as a direct buried cable. The actual location of the cable could not be confirmed. The locator strongly suggested not to expose the cable by potholing or manual technics because it would appear to be very old and could break easily.
- AEC 10 – A 4.0m long pipe on the ground was identified and a sample was collected (Pipe01). The pipe was of the same size, texture and consistency as the pipe identified as AEC 1.
- AEC 11 – The farm tip consisted of two elongated trenches. The northern trench contained scrap metal waste at its eastern end and other buried wastes with visible ash and cinder, and cement fibre pieces. Samples F02 and F03 of cement fibre waste were collected from test pit TP49. Sample F04 of cement fibre waste was collected from test pit TP50. No waste was observed in the southern trench. Parts of the trenches encroach the site boundary extending offsite.
- AEC 12 - Dumped waste inside the south concrete structure contained cement fibre sheets that were sampled (F01). The northern concrete structure seems to contain only inert waste but could also contain buried cement fibre wastes that potentially contains asbestos. While not exposed during test pit excavations, there is a potential for buried pipes to be connected to the concrete

structures at depth that are presumed to be of a concrete material. These pipes should be located and addressed during decommissioning of the structures.

- AEC 13 – Limited fill material was observed in this area. Observations indicate that the fill material was recycled crushed rock and rubble. No cement fibre fragments were observed on the ground surfaces.

6.2 Soil Results

Soil analytical results are presented in Table 1 (**Appendix B**) and in laboratory reports provided in **Appendix F**. The soil results show the following:

6.2.1 Asbestos

Asbestos in bulk materials was detected in fragments of cement fibre in the following samples:

- F01 (**AEC 12(S)** – dumped waste in south concrete structure)
- F04 (**AEC 11** - farm tip in TP50)
- F05 (**AEC 1** – underground irrigation pipe at location NDD1)
- Pipe01 (**AEC 10** – cement fibre pipe on ground).

All other samples of soil and bulk materials reported no presence of asbestos.

6.2.2 Inorganic Metals

- Arsenic (As) was detected in surface soils at **PP1** at 140mg/kg, above the adopted human and ecological health criterion of 100mg/kg.
- Lead (Pb) was detected in shallow surface wastes at **TP49** in the farm tip at 470mg/kg, above the adopted human health criterion of 300mg/kg.
- Zinc (Zn) was detected in shallow surface wastes at **TP49** in the farm tip at 890mg/kg, above the adopted ecological health criterion of 480mg/kg.

The exceedances above are not considered contamination hotspots (i.e. > 250% adopted criteria).

All other samples of soil reported concentrations of metals below the adopted criteria.

6.2.3 Organic Compounds

- TRH >C16-C34 (fraction F3) was detected in surface soils at **PP1** at 2,700mg/kg, above the adopted ecological health criterion of 1,300mg/kg and the adopted management limit criterion of 2,500mg/kg.
- Total PAH was detected in surface soils at **PP1** at 630mg/kg, above the adopted human health criterion of 300mg/kg.
- Carcinogenic PAHs - BaP TEQ was detected in surface soils at **PP1** and **PP4** at 110mg/kg and 16mg/kg respectively, above the adopted human health criterion of 3mg/kg. The BaP TEQ concentrations at PP1 and PP4 are considered contamination hotspots given they are greater than 250% of the criterion.
- BaP was detected in surface soils at **PP1** and **PP4** at 69mg/kg and 11mg/kg respectively, above the adopted ecological health criterion of 0.7mg/kg. The BaP concentrations at PP1 and PP4 are considered contamination hotspot given they are greater than 250% of the criterion.

All other samples of soil reported no detectable concentrations of organic compounds.

6.2.4 Aesthetics

The farm tip (AEC 11) contains wastes within the northern trench that is considered an aesthetic issue warranting further action to remove wastes and improve soil quality.

The north and south concrete structures (AEC 12(N and S)) contain building and demolition wastes that are considered an aesthetic issue warranting further action. These structures also have the potential to be connected to deeper pipes presumably comprising concrete material that warrant removal when the structures are decommissioned.

6.3 Conceptual Site Model

A Conceptual Site Model (CSM) has been developed in consideration of the site history, current analytical results and field observations. Without knowing the proposed subdivision and development plan and layout, the CSM prepared for the purposes of this Phase 2 takes into account the future use of the land predominately as a low-density residential land subdivision with accessible gardens and soils.

Note: We assume that the farm dam will most likely be decommissioned and surface water drainage would be augmented in such a way for the future development to maximise the available space onsite for residential lots.

6.3.1 Contamination Sources and Contaminants of Concern

Table 6-1 Contamination Sources and Contaminants

AEC #	Contamination Source	Approximate Area or Extent	Contaminant/s
1	Underground irrigation pipe	630 lineal m	Asbestos
2	Telegraph power poles	Immediately surrounding PP1 and PP4. Assume also around inaccessible PP3 and PP6.	Arsenic, TRH (F3) BaP TEQ, BaP Total PAH
10	Old pipe on ground	5 lineal m	Asbestos
11	Farm tip	North trench – approx. 40m x 4m	Asbestos, Lead, Zinc Farm and demolition wastes, ash
12	Two x concrete structures	Approx. 400m ² (200m ² each) Potential buried connected pipes	Asbestos, farm and demolition wastes
FD	Farm dam Water and sediments	9.0 hectares	Inorganic and organic chemicals

6.3.2 Potential Receptors and Exposure Pathways

Potential Receptors and Exposure Pathways are considered to be as follows:

- Future construction/site worker related to site redevelopment – acute exposure
 - direct contact/incidental ingestion of soil.
 - direct contact/incidental ingestion of farm dam sediment and water.
 - inhalation of asbestos dust.
- Future residents/open space users – Chronic exposure

- direct contact/ingestion of soil.
 - inhalation of asbestos dust.
 - Aesthetic impact at ground surface.
- Terrestrial organisms – Chronic exposure
 - Soil – direct contact/uptake.
- Aquatic organisms – Chronic exposure
 - Surface water/sediment - direct contact/uptake.

Quality of Analytical Data

Analytical data validation is the process of assessing whether the data is in compliance with method requirements and project specifications. The primary objective of this process is to ensure that data of known quality are reported, and to identify if data can be used to fulfil the overall project objectives.

On the basis of the analytical data validation procedure employed, the overall quality of the analytical data produced is considered to be of an acceptable standard for interpretive use. The table below provides a summary of the data validation.

Table 7-1 Data Quality

Requirement	Compliance	Comments
Field Duplicates	Yes	Intra-laboratory duplicate samples were collected by splitting a sample into the primary and duplicate sample containers. A combined total of: 9x soil intra-laboratory duplicates were collected for 73 primary samples Resulting in greater than 1 duplicate per 10 primary samples analysed (i.e. >10%) in accordance with AS4482.1: 2005. Inter-laboratory duplicate samples were not collected as part of this assessment. Refer Table 1 (Appendix B).
RPDs	Yes	All calculated RPDs fall within the acceptable limits of <30% to <50% with the exception of the following soil RPDs: - PP4 and QZ08 - Cu 57.1% (>30%) when conc. > 20x LOR; - PP18 and QZ09 - Pb 59.5% (>30%), Ni 93.1% (>30%) when conc. > 20x LOR and - PP18 and QZ09 -- Zn 82.7% (>50%) when conc. between 10-20x LOR. The resultant RPDs of the samples above are not significantly excessive. Minor heterogeneity of samples could be the cause. Further in all instances the recorded concentrations are an order of magnitude or more less than the relevant HIL or EIL criterion and therefore do not impact on the contamination status of the site. Given the large data set and very minor number of non-compliance, we do not see that it would impact the veracity of the data quality in this instance. Where concentrations of either sample is <LOR or <10 times the LOR, then no RPD was calculated. This evaluation is in accordance with section 8 of AS4482.1: 2005. Refer Table 2 (Appendix B).

Requirement	Compliance	Comments
Trip Blanks and Trip Spikes	Yes	Trip blanks and trip spikes were collected as part of the Phase 2 investigation. All soil trip blanks were non detect indicating no cross contamination occurred during field sampling and transport to the laboratory i.e. false positive results. All soil trip spike results were within acceptable limits (i.e. 70-130%) indicating negligible loss of volatiles occurred during field sampling and transport to the laboratory i.e. false negative results. Refer Table 3 (Appendix B).
Sampling equipment properly decontaminated	Yes	Disposable equipment used (bailer, nitrile gloves, etc.). Any sampling tools were decontaminated between sampling locations with a solution of Liquinox and rinsed with potable water.
Rinsate Blanks	NA	Rinsate blank samples were not collected as part of this assessment.
Sample Preservation	Yes	Samples were properly preserved. Samples were compliant with required storage temperature.
Samples delivered to laboratory within sample holding times.	Yes	Confirmed from COCs and laboratory reports.
Equipment Calibration	NA	Equipment requiring calibration was not used as part of this assessment
Analytical procedures	Yes	All NATA accredited. All analyses meet compliance requirements. Soil Review Primary laboratory used for the soil analysis was SGS. - SE227223 - All Data Quality Objectives were met with the exception of the following: 1x Heavy metal duplicate exceedance due to <u>sample heterogeneity</u> and 1x Heavy metal matrix spike exceedance due to <u>matrix interference</u>. - SE227356 - All Data Quality Objectives were met with the exception of the following: 2x Heavy metal matrix spike recovery failed acceptance criteria due to sample heterogeneity. 1x VOCs in soil <u>matrix spike exceedance</u>. The data set overall is considered suitable and representative of the conditions encountered during the investigation. The minor number of non-conformances noted above are not expected to affect data quality as heavy metals in soil are attributed to sample heterogeneity and multiple orders of magnitude less than the adopted criteria therefore the likelihood of false negative results is negligible.

Requirement	Compliance	Comments
		Overall, these outliers are considered do not impact the laboratories overall quality objectives. On this basis the data set is deemed be acceptable for evaluating data to meet the project objectives.
SOPs and competent field personnel	Yes	Sampling procedures follow industry standards, and field staff (Adam Sullivan – more than 23 years' experience, Sean Guenther – more than 20 years' experience, Colin Biggs – 15 years' experience) are competent in sampling methods and QA/QC protocols.

Conclusions

The following conclusions are made based on the findings of this Phase 2 and subject to the limitations presented in Section 10:

- The site is approximately 80 hectares in size and proposed for future development for predominately low-density residential dwellings.
- The site was historically used for grazing purposes and water storage in a large farm dam approximately 9.0 hectares in size. The farm dam was constructed circa 1950.
- A sewage pumping station and associated infrastructure was constructed onsite in the early 2010s.
- The Phase 1 (DP, 2020) contamination assessment identified a number of AEC requiring further investigation to assess potential contamination risks.
- The southeast site corner was potentially part of a former army camp located east of the site, however, aerial imagery reviewed as part of this Phase 2 showed little disturbance of this area of the site, which has been pastureland since the army camp was dismantled in the late 1940s. This area of the site was therefore considered to present negligible risk from past army activities.
- Analytical results of samples collected from the AECs indicate that soils within the majority of AECs show negligible levels of contamination and are considered of good quality. Some samples reported detectable concentrations above adopted health criteria, including asbestos presence in fibre cement materials, heavy metals and organic compounds.
- The following AECs reported contamination that warrants delineation and remediation to remove health risks to future users of the site.
 - AEC 1 – underground irrigation pipe – made of asbestos cement material.
 - AEC 2 – power poles PP1 and PP4 – immediately surrounding soils of these poles are impacted by arsenic and organic contaminants. Soils around power poles PP3 and PP6 are assumed to be similarly impacted as they could not be accessed, however require verification sampling.
 - AEC 10 – old pipe on ground – made of asbestos cement material.
 - AEC 11 – the north trench of the farm tip – asbestos cement, ash, lead and zinc impacts were identified in buried wastes. Large pile of scrap metal was also in the tip.
 - AEC 12 – north and south concrete structures – demolition wastes containing asbestos and other inert materials have been dumped into the structures. Underground pipework could be present proximal to the structures.
- Remediation of land requires consent from the local authority.

In addition to the above AECs, we consider that the farm dam water and sediments pose a potential contamination risk warranting investigation. The farm dam was not identified in the Phase 1 as an AEC, however given its size of 9.0 hectares, age being some 70 years old, and drainage water feeding the dam originating from agricultural related properties and historical army camp uses immediately to the east; the dam could act as a sink for metals and recalcitrant organic compounds to accumulate. At this stage we are not aware of the proposed development layout, however we assume that the dam would be significantly reduced in size to maximise available space for development onsite, therefore some augmentation or complete decommissioning of the dam would be needed. As such, investigation of the dam water and sediments is needed to examine potential risks linked to water and, in particular, sediments residing in the dam.

Sullivan-ES conclude that the site poses a relatively low contamination risk and it can be made suitable for the proposed residential subdivision subject to performing remediation and validation works at the identified AECs.

8.1 Recommendations

We recommend that a Remedial Action Plan (RAP) is prepared to document the current contamination status of the site and evaluate the most suitable method/s to remediate AECs and contamination identified in this Phase 2 in consideration of the proposed residential subdivision development. The RAP is required based on the provisions within the following planning instruments and requires consent from the consenting authority under:

- State Environmental Planning Policy (Sydney Region Growth Centres) 2006.
- Sydney Regional Environmental Plan No 20—Hawkesbury-Nepean River.
- Oran Park Precinct – Development Control Plan 2007.

The RAP should be prepared or reviewed and approved by a Certified Environmental Practitioner specialising in Site Contamination (CEnvP-SC) as certified by one of the two schemes recognised by the NSW Environment Protection Authority.

The RAP is to include all items required as listed in the contaminated land consultants reporting guidelines (NSW EPA 2020), as well as consideration of the following items:

- Additional targeted sampling at power poles PP3 and PP6.
- Decommissioning of the farm dam (if development plans require this action) - sampling of farm dam water and sediments.
- Decommissioning of the concrete structures – examine the locations of possible deep pipework.
- Materials management, classification, handling requirements and disposal.
- Unexpected finds protocol.

References

Australian Standard 4482.1 Guide to the investigation and sampling of sites with potentially contaminated soil, Part 1: Non-volatile and semi-volatile compounds, 2005.

Camden Local Environmental Plan (LEP) 2010.

Camden Development Control Plan (DCP) 2010.

Contaminated Land Management Act 1997 (NSW).

Douglas Partners Pty Ltd, Land Capability and Contamination Assessment, 28 February 2007.

Douglas Partners Pty Ltd, Report on Preliminary Site Investigation – Contamination, Proposed Residential Subdivision, Lot 2005 DP1162239 Cobbitty NSW, 14 February 2020.

DUAP/NSW EPA, Managing Land Contamination: Planning Guidelines, SEPP 55 – Remediation of Land, 1998.

Environmental Planning and Assessment Act 1979.

Godden Mackay Logan Pty Ltd, GCC Oran Park Precinct - Heritage Assessment, 19 March 2007.

NSW EPA Guidelines for the NSW Site Auditor Scheme (3rd Edition), 2017.

National Environment Protection (Assessment of Site Contamination) Measure 2013.

NSW EPA Contaminated Land Guidelines: Consultants Reporting on Contaminated Land, 2020.

NSW EPA, Sampling Design Guidelines, 1995.

Oran Park Precinct – Development Control Plan 2007.

Protection of the Environment Operations Act 1997.

Protection of the Environment Operations (Waste) Regulations 2014.

Sydney Regional Environmental Plan No 20—Hawkesbury-Nepean River.

State Environmental Planning Policy No.55 – Remediation of Land 1998.

State Environmental Planning Policy (Sydney Region Growth Centres) 2006.

Limitations

Sullivan Environmental Sciences Pty Ltd, (Sullivan-ES) has prepared this report in accordance with the usual care and thoroughness of the consulting profession for the use of Mirvac Homes (NSW) Pty Ltd and only those third parties who have been authorised in writing by Sullivan-ES to rely on this Report.

It is based on generally accepted practices and standards at the time it was prepared. No other warranty, expressed or implied, is made as to the professional advice included in this Report.

Where this Report indicates that information has been provided to Sullivan-ES by third parties, Sullivan-ES has made no independent verification of this information except as expressly stated in the Report. Sullivan-ES assumes no liability for any inaccuracies in or omissions to that information.

This Report was prepared between 10 December 2021 and 27 January 2022 and is based on the conditions encountered and information reviewed at the time of preparation. Sullivan-ES disclaims responsibility for any changes that may have occurred after this time.

Investigations undertaken in respect of this Report are constrained by the particular site conditions, such as the location of buildings, services and vegetation. As a result, not all relevant site features and contamination may have been identified in this Report.

Subsurface conditions can vary across a particular site and cannot be exhaustively defined by the investigations described in this Report.

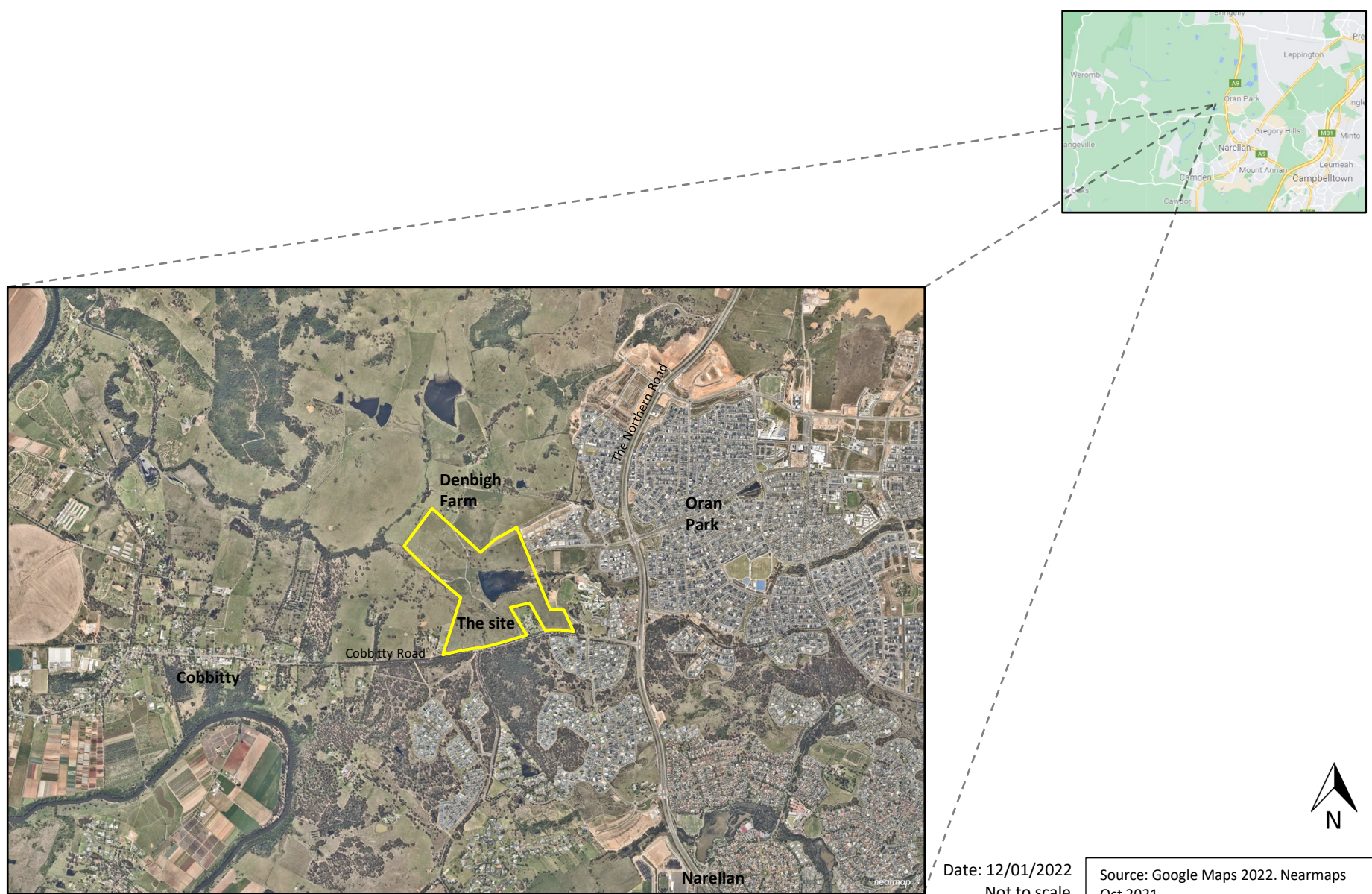
This Report should be read in full. No responsibility is accepted for use of any part of this report in any other context or for any other purpose or by third parties. This Report does not purport to give legal advice.

Except as required by law, no third party may use or rely on this Report unless otherwise agreed by Sullivan-ES.

To the extent permitted by law, Sullivan-ES expressly disclaims and excludes liability for any loss, damage, cost or expenses suffered by any third party relating to or resulting from the use of, or reliance on, any information contained in this Report. Sullivan-ES does not admit that any action, liability or claim may exist or be available to any third party.

It is the responsibility of third parties to independently make inquiries or seek advice in relation to their particular requirements and proposed use of the site.

Appendix A Figures

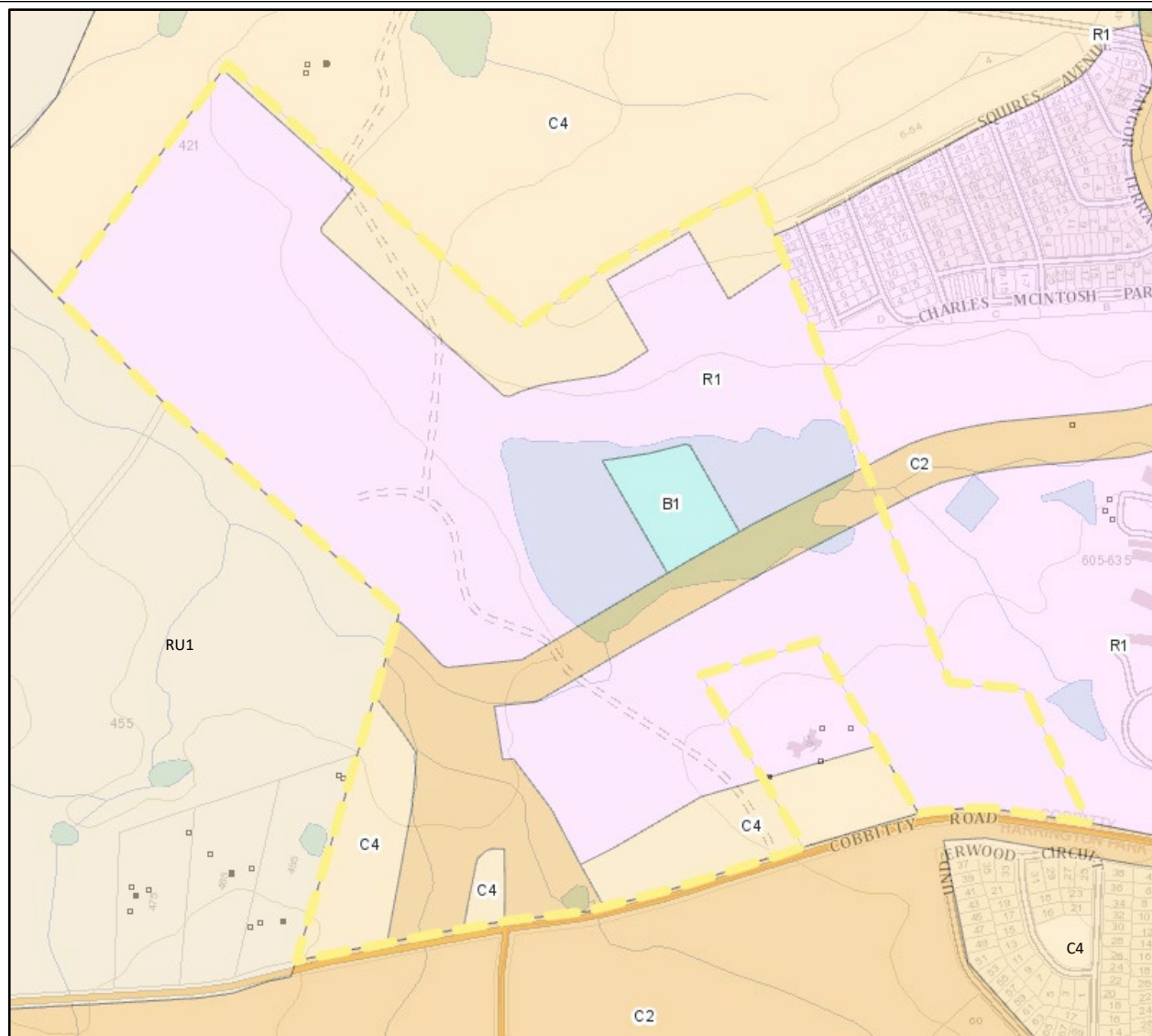


Project #: **SES_631**

Title: **Detailed Phase 2 Site Contamination Assessment**

Figure 1: **Site Location**

Address: **531 Cobbitty Road, Cobbitty NSW 2570**



Date: 12/01/2022
Not to scale

Source:
www.planningportal.nsw.gov.au/

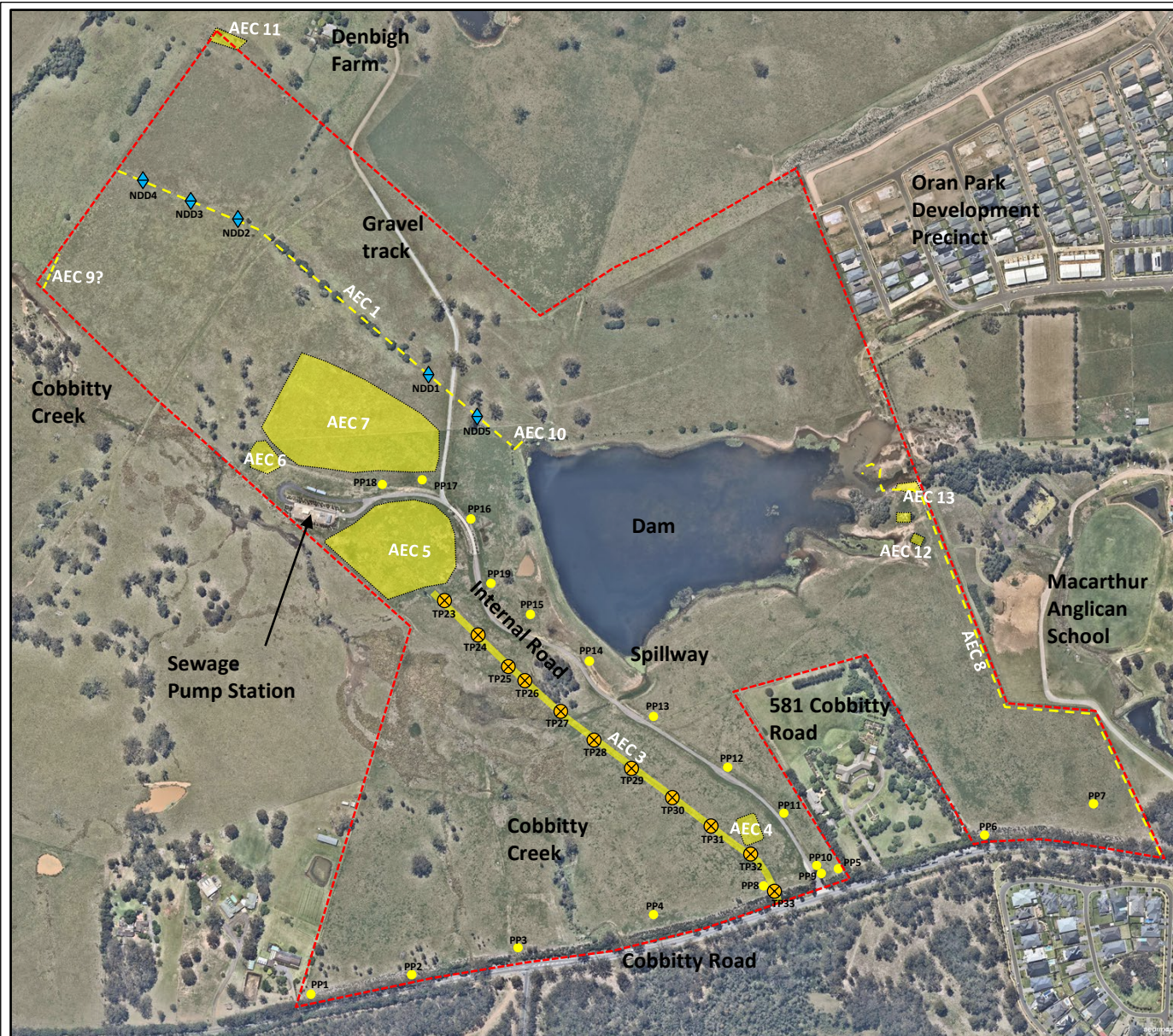


Project #: **SES_631**

Title: **Detailed Phase 2 Site Contamination Assessment**

Figure 2: **Land Zones**

Address: **531 Cobbitty Road, Cobbitty NSW 2570**



- ⊗ Test pit location
- ◆ NDD location



Not to scale
All added locations approximate
Date: 12/01/2022

Source: Nearmap Oct 2021

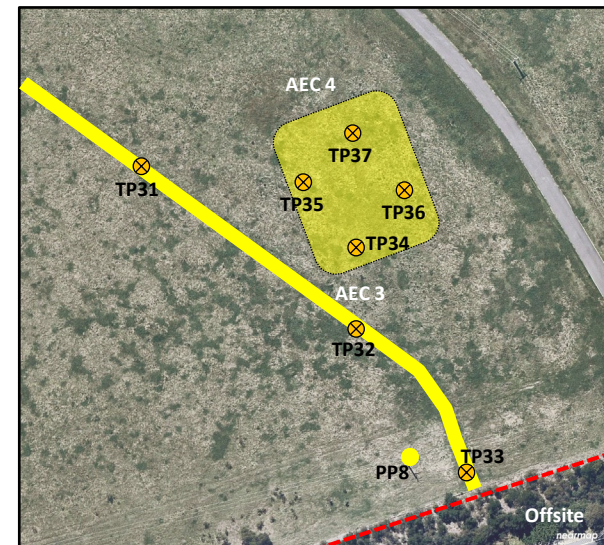


Project #: **SES_631**

Title: **Detailed Phase 2 Site Contamination Assessment**

Figure 3: **Site Layout, AECs & Sampling Locations**

Address: **531 Cobbitty Road, Cobbitty NSW 2570**



⊗ Test pit location
 ◆ NDD location
 Not to scale
 All added locations approximate
 Date: 12/01/2022



Source: Nearmap Oct 2021

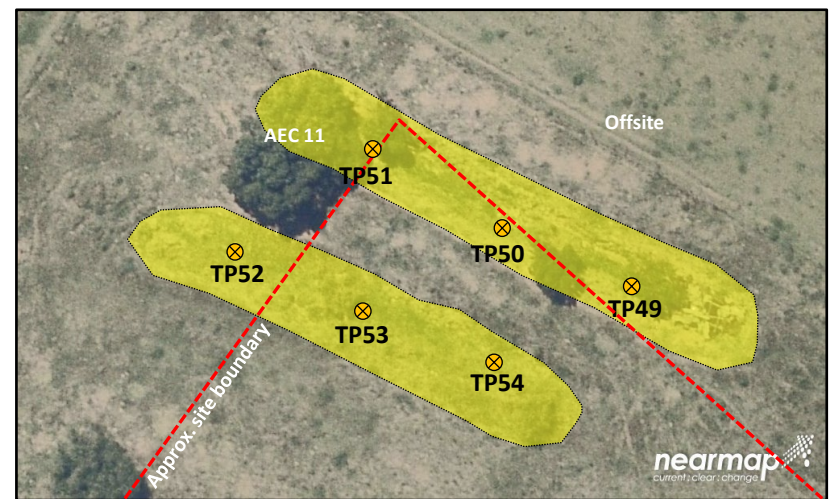


Project #: **SES_631**

Title: **Detailed Phase 2 Site Contamination Assessment**

Figure 4: **AEC 1, AEC 3, AEC 4, AEC 5,
AEC 6, AEC 7 & AEC 10**

Address: **531 Cobbitty Road, Cobbitty NSW 2570**



⊗ Test pit location

◆ NDD location

Not to scale

All added locations approximate

Date: 12/01/2022

Source: Nearmap Oct 2021



Project #: **SES_631**

Figure 5: **AEC 8, AEC 11, AEC 12 (N & S) & AEC 13**

Title: **Detailed Phase 2 Site Contamination Assessment**

Address: **531 Cobbitty Road, Cobbitty NSW 2570**

Appendix B Results Tables

Table 1 SES_631 - Soil Analytical Results Detailed Phase 2 Contamination Assessment		Asbestos			Total Recoverable Elements								BTEXN								Volatile Hydrocarbons				Total Recoveral						
	Moisture	Asbestos in Soil Detected	Estimated Fibres	Asbestos In Bulk Detected	Arsenic, As	Cadmium, Cd	Chromium, Cr	Copper, Cu	Lead, Pb	Nickel, Ni	Zinc, Zn	Mercury, Hg	Benzene	Toluene	Ethylbenzene	m/p-xylene	o-xylene	Total Xylenes	Total BTEX	Naphthalene	Benzene (F0)	TRH C6-C9	TRH C6-C10	TRH C6-C10 minus BTEX (F1)	TRH C10-C14	TRH C15-C28	TRH C29-C36	TRH C37-C40	TRH >C10-C16		
	Units	%w/w	No unit	%w/w	No unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
	EQL	1	0	0.01	0	1	0.3	0.5	0.5	1	0.5	2	0.05	0.1	0.1	0.1	0.2	0.1	0.3	0.6	0.1	0.1	20	25	25	20	45	45	100	25	
	HIL A - Residential with Access to Soils	-	Detect	-	Detect	100 ^{#5}	20	100	6000	300 ^{#4}	400	7400	40 ^{#3}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	HSL-A Residential for VI (Clay, 0 to <1m)	-	-	-	-	-	-	-	-	-	-	-	-	0.7	480	NL(68)	-	-	110	-	5	0.7	-	-	50	-	-	-	-	-	
	CRC Care Direct Contact HSL-A Residential	-	-	-	-	-	-	-	-	-	-	-	-	100	14000	4500	-	-	12000	-	1400	100	-	-	4400	-	-	-	-	-	
	NEPM Derived EILs - Urban Residential	-	-	-	-	100	-	410	210	1100	170	480	-	-	-	-	-	-	-	-	-	170	-	-	-	-	-	-	-	-	
	NEPM ESLs - Urban Residential (Fine)	-	-	-	-	-	-	-	-	-	-	-	-	50	85	70	-	-	105	-	-	-	-	-	180	-	-	-	-	-	
	Management Limits - Residential	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	700	-	-	-	-	-	1000	
Sample ID	Date	Depth																													
TP01_0.0-0.2	13/12/2021	0.0-0.2	18.4	No	<0.01	-	8	<0.3	23	6.4	22	4.5	14	<0.05	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<0.1	<0.1	<20	<25	<25	<20	<45	<45	<100	<25
QZ01	13/12/2021	-	19.4	-	-	-	7	<0.3	27	7.2	22	4.1	13	<0.05	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<0.1	<0.1	<20	<25	<25	<20	<45	<45	<100	<25
TP02_0.0-0.1	13/12/2021	0.0-0.1	20.6	No	<0.01	-	7	<0.3	24	4.7	17	3.4	16	<0.05	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<0.1	<0.1	<20	<25	<25	<20	<45	<45	<100	<25
TP03_0.0-0.2	13/12/2021	0.0-0.2	14.6	No	<0.01	-	7	<0.3	23	5.5	19	3.7	13	<0.05	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<0.1	<0.1	<20	<25	<25	<20	<45	<45	<100	<25
TP04_0.0-0.1	13/12/2021	0.0-0.1	19.8	No	<0.01	-	7	<0.3	20	5.6	19	3.2	17	<0.05	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<0.1	<0.1	<20	<25	<25	<20	<45	<45	<100	<25
TP05_0.0-0.1	13/12/2021	0.0-0.1	18.2	No	<0.01	-	7	<0.3	15	9.4	28	6.6	21	<0.05	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<0.1	<0.1	<20	<25	<25	<20	<45	<45	<100	<25
TP06_0.4-0.5	13/12/2021	0.4-0.5	12.6	No	<0.01	-	6	<0.3	15	12	20	5.0	9.3	<0.05	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<0.1	<0.1	<20	<25	<25	<20	<45	<45	<100	<25
TP06_0.7-0.9	13/12/2021	0.7-0.9	11.3	No	<0.01	-	6	<0.3	13	18	17	9.2	22	<0.05	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<0.1	<0.1	<20	<25	<25	<20	<45	<45	<100	<25
TP07_0.2-0.3	13/12/2021	0.2-0.3	15.1	No	<0.01	-	6	<0.3	11	14	13	7.5	24	<0.05	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<0.1	<0.1	<20	<25	<25	<20	<45	<45	<100	<25
TP07_0.9-1.1	13/12/2021	0.9-1.1	18.7	No	<0.01	-	6	<0.3	11	16	15	7.6	26	<0.05	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<0.1	<0.1	<20	<25	<25	<20	<45	<45	<100	<25
TP08_0.4-0.5	13/12/2021	0.4-0.5	15.0	No	<0.01	-	5	<0.3	12	15	11	7.6	15	<0.05	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<0.1	<0.1	<20	<25	<25	<20	<45	<45	<100	<25
QZ02	13/12/2021	-	13.7	-	-	-	5	<0.3	13	14	11	6.8	14	<0.05	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<0.1	<0.1	<20	<25	<25	<20	<45	<45	<100	<25
TP08_0.8-0.9	13/12/2021	0.8-0.9	16.5	No	<0.01	-	8	<0.3	13	22	20	8.8	27	<0.05	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<0.1	<0.1	<20	<25	<25	<20	<45	<45	<100	<25
TP10_0.1-0.2	13/12/2021	0.1-0.2	17.6	No	<0.01	-	8	<0.3	17	8.9	19	6.4	25	<0.05	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<0.1	<0.1	<20	<25	<25	<20	<45	<45	<100	<25
TP11_0.1-0.2	13/12/2021	0.1-0.2	12.7	No	<0.01	-	6	<0.3	15	6.6	12	4.5	11	<0.05	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<0.1	<0.1	<20	<25	<25	<20	<45	<45	<100	<25
TP12_0.0-0.2	13/12/2021	0.0-0.2	17.8	No	<0.01	-	8	<0.3	18	7.6	19	4.9	23	<0.05	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<0.1	<0.1	<20	<25	<25	<20	<45	<45	<100	<25
TP13_0.0-0.1	13/12/2021	0.0-0.1	16.6	No	<0.01	-	7	<0.3	15	10	26	4.8	15	<0.05	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<0.1	<0.1	<20	<25	<25	<20	<45	<45	<100	<25
TP14_0.0-0.1	13/12/2021	0.0-0.1	16.6	No	<0.01	-	8	<0.3	19	7.7	19	5.5	20	<0.05	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<0.1	<0.1	<20	<25	<25	<20	<45	<45	<100	<25

Table 1 SES_631 - Soil Analytical Results Detailed Phase 2 Contamination Assessment					Asbestos			Total Recoverable Elements							BTEXN								Volatile Hydrocarbons				Total Recoveral					
				Moisture	Asbestos in Soil Detected	Estimated Fibres	Asbestos In Bulk Detected	Arsenic, As	Cadmium, Cd	Chromium, Cr	Copper, Cu	Lead, Pb	Nickel, Ni	Zinc, Zn	Mercury, Hg	Benzene	Toluene	Ethylbenzene	m/p-xylene	o-xylene	Total Xylenes	Total BTEX	Naphthalene	Benzene (F0)	TRH C6-C9	TRH C6-C10	TRH C6-C10 minus BTEX (F1)	TRH C10-C14	TRH C15-C28	TRH C29-C36	TRH C37-C40	TRH >C10-C16
Units				%w/w	No unit	%w/w	No unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
EQL				1	0	0.01	0	1	0.3	0.5	0.5	1	0.5	2	0.05	0.1	0.1	0.1	0.2	0.1	0.3	0.6	0.1	0.1	20	25	25	20	45	45	100	25
HIL A - Residential with Access to Soils				-	Detect	-	Detect	100 ^{#5}	20	100	6000	300 ^{#4}	400	7400	40 ^{#3}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
HSL-A Residential for VI (Clay, 0 to <1m)				-	-	-	-	-	-	-	-	-	-	-	0.7	480	NL(68)	-	-	110	-	5	0.7	-	-	50	-	-	-	-	-	
CRC Care Direct Contact HSL-A Residential				-	-	-	-	-	-	-	-	-	-	-	100	14000	4500	-	-	12000	-	1400	100	-	-	4400	-	-	-	-	-	
NEPM Derived EILs - Urban Residential				-	-	-	-	100	-	410	210	1100	170	480	-	-	-	-	-	-	-	170	-	-	-	-	-	-	-	-	-	
NEPM ESLs - Urban Residential (Fine)				-	-	-	-	-	-	-	-	-	-	-	50	85	70	-	-	105	-	-	-	-	180	-	-	-	-	-	-	
Management Limits - Residential				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	700	-	-	-	-	-	-	1000	
Sample ID		Date	Depth																													
TP15_0.0-0.2		13/12/2021	0.0-0.2	19.9	No	<0.01	-	9	<0.3	14	12	18	8.1	26	<0.05	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<0.1	<0.1	<20	<25	<25	<20	<45	<45	<100	<25
QZ03		13/12/2021	-	18.6	-	-	-	9	<0.3	17	9.8	19	8.2	26	<0.05	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<0.1	<0.1	<20	<25	<25	<20	<45	<45	<100	<25
TP16_0.0-0.2		13/12/2021	0.0-0.2	22.8	No	<0.01	-	6	<0.3	11	12	15	6.7	23	<0.05	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<0.1	<0.1	<20	<25	<25	<20	<45	<45	<100	<25
TP17_0.0-0.2		13/12/2021	0.0-0.2	23.4	No	<0.01	-	7	<0.3	13	12	17	7.9	33	<0.05	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<0.1	<0.1	<20	<25	<25	<20	<45	<45	<100	<25
TP18_0.0-0.2		13/12/2021	0.0-0.2	23.5	No	<0.01	-	7	<0.3	13	16	18	10	35	<0.05	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<0.1	<0.1	<20	<25	<25	<20	<45	<45	<100	<25
TP19_0.0-0.2		13/12/2021	0.0-0.2	23.1	No	<0.01	-	6	<0.3	12	16	19	10	45	<0.05	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<0.1	<0.1	<20	<25	<25	<20	<45	<45	<100	<25
TP20_0.0-0.2		13/12/2021	0.0-0.2	18.3	No	<0.01	-	7	<0.3	13	15	21	8.9	30	<0.05	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<0.1	<0.1	<20	<25	<25	<20	<45	<45	<100	<25
TP21_0.0-0.2		13/12/2021	0.0-0.2	19.3	No	<0.01	-	6	<0.3	13	15	16	9.4	38	<0.05	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<0.1	<0.1	<20	<25	<25	<20	<45	<45	<100	<25
TP22_0.0-0.2		13/12/2021	0.0-0.2	17.6	No	<0.01	-	8	<0.3	15	16	20	9.3	23	<0.05	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<0.1	<0.1	<20	<25	<25	<20	<45	<45	<100	<25
TP23_0.1-0.3		13/12/2021	0.1-0.3	8.4	No	<0.01	-	3	<0.3	14	34	11	39	39	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP24_0.1-0.3		13/12/2021	0.1-0.3	11.8	No	<0.01	-	5	<0.3	14	41	11	35	65	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP25_0.0-0.1		13/12/2021	0.0-0.1	20.4	No	<0.01	-	5	<0.3	10	9.4	15	6.0	18	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP26_0.1-0.3		13/12/2021	0.1-0.3	9.0	No	<0.01	-	5	<0.3	14	44	12	45	55	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP27_0.2-0.4		13/12/2021	0.2-0.4	12.9	No	<0.01	-	10	<0.3	20	26	22	13	51	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP28_0.1-0.3		14/12/2021	0.1-0.3	16.5	No	<0.01	-	6	<0.3	10	71	16	6.0	39	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP29_0.0-0.1		14/12/2021	0.0-0.1	18.3	No	<0.01	-	9	<0.3	15	13	17	4.3	18	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP30_0.0-0.1		14/12/2021	0.0-0.1	19.6	No	<0.01	-	9	<0.3	17	13	19	6.8	26	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP31_0.0-0.2		14/12/2021	0.0-0.2	20.0	No	<0.01	-	9	<0.3	14	14	22	8.0	32	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP32_0.1-0.2		14/12/2021	0.1-0.2	14.2	No	<0.01	-	3	<0.3	8.9	11	34	6.6	85	0.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP33_0.1-0.2		14/12/2021	0.1-0.2	9.3	No	<0.01	-	4	<0.3	6.9	170	10	8.3	51	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QZ04		14/12/2021	-	11.5	-	-	-	5	<0.3	6.9	200	9	8.7	45	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP34_0.0-0.1		14/12/2021	0.0-0.1	20.5	No	<0.01	-	14	<0.3	11	16	18	14	38	<0.05	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<0.1	<0.1	<20	<25	<25	<20	<45	<45	<100	<25
TP35_0.2-0.3		14/12/2021	0.2-0.3	22.1	No	<0.01	-	10	<0.3	12	29	18	19	47	<0.05	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<0.1	<0.1	<20	<25	<25	<20	<45	<45	<100	<25
TP36_0.0-0.1		14/12/2021	0.0-0.1	24.9	-	-	-	14	<0.3	11	20	26	11	47	<0.05	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<0.1	<0.1	<20	<25	<25					

Table 1 SES_631 - Soil Analytical Results Detailed Phase 2 Contamination Assessment				Moisture	Asbestos			Total Recoverable Elements							BTEXN								Volatile Hydrocarbons				Total Recoveral						
					Asbestos in Soil Detected	Estimated Fibres	Asbestos In Bulk Detected	Arsenic, As	Cadmium, Cd	Chromium, Cr	Copper, Cu	Lead, Pb	Nickel, Ni	Zinc, Zn	Mercury, Hg	Benzene	Toluene	Ethylbenzene	m/p-xylene	o-xylene	Total Xylenes	Total BTEX	Naphthalene	Benzene (F0)	TRH C6-C9	TRH C6-C10	TRH C6-C10 minus BTEX (F1)	TRH C10-C14	TRH C15-C28	TRH C29-C36	TRH C37-C40	TRH >C10-C16	
Units				%w/w	No unit	%w/w	No unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		
EQL				1	0	0.01	0	1	0.3	0.5	0.5	1	0.5	2	0.05	0.1	0.1	0.1	0.2	0.1	0.3	0.6	0.1	0.1	20	25	25	20	45	45	100	25	
HIL A - Residential with Access to Soils				-	Detect	-	Detect	100 ^{#5}	20	100	6000	300 ^{#4}	400	7400	40 ^{#3}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
HSL-A Residential for VI (Clay, 0 to <1m)				-	-	-	-	-	-	-	-	-	-	-	0.7	480	NL(68)	-	-	110	-	5	0.7	-	-	50	-	-	-	-	-	-	
CRC Care Direct Contact HSL-A Residential				-	-	-	-	-	-	-	-	-	-	-	100	14000	4500	-	-	12000	-	1400	100	-	-	4400	-	-	-	-	-	-	
NEPM Derived EILs - Urban Residential				-	-	-	-	100	-	410	210	1100	170	480	-	-	-	-	-	-	-	-	170	-	-	-	-	-	-	-	-	-	
NEPM ESLs - Urban Residential (Fine)				-	-	-	-	-	-	-	-	-	-	-	50	85	70	-	-	105	-	-	-	-	-	180	-	-	-	-	-	-	
Management Limits - Residential				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	700	-	-	-	-	-	-	1000	
Sample ID		Date	Depth																														
TP46_0.1-0.3		15/12/2021	0.1-0.3	20.2	No	<0.01	-	7	<0.3	12	22	18	13	44	<0.05	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<0.1	<0.1	<20	<25	<25	<20	<45	<45	<100	<25	
TP47_0.0-0.1		15/12/2021	0.0-0.1	9.5	No	<0.01	-	7	<0.3	13	20	25	9.4	53	<0.05	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<0.1	<0.1	<20	<25	<25	<20	<45	<45	<100	<25	
TP48_0.0-0.1		15/12/2021	0.0-0.1	12.1	No	<0.01	-	7	<0.3	15	23	24	11	82	0.06	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<0.1	<0.1	<20	<25	<25	<20	<45	<45	<100	<25	
TP49_0.0-0.2		15/12/2021	0.0-0.2	31.0	No	<0.01	-	11	0.6	13	43	470	10	890	0.06	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<0.1	<0.1	<20	<25	<25	<20	<45	<45	<100	<25	
TP49_0.4-0.5		15/12/2021	0.4-0.5	21.4	-	-	-	11	0.6	11	32	59	14	130	<0.05	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<0.1	<0.1	<20	<25	<25	<20	<45	<45	<100	<25	
QZ06		15/12/2021	-	22.3	-	-	-	12	0.7	12	35	62	19	170	0.06	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<0.1	<0.1	<20	<25	<25	<20	<45	<45	<100	<25	
TP51_0.0-0.2		15/12/2021	0.0-0.2	19.0	No	<0.01	-	9	<0.3	9.0	28	16	12	83	<0.05	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<0.1	<0.1	<20	<25	<25	<20	<45	<45	<100	<25	
TP52_0.0-0.1		15/12/2021	0.0-0.1	18.9	No	<0.01	-	12	<0.3	9.2	19	13	8.8	47	<0.05	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<0.1	<0.1	<20	<25	<25	<20	<45	<45	<100	<25	
TP53_0.0-0.2		15/12/2021	0.0-0.2	19.6	No	<0.01	-	11	<0.3	8.1	24	15	11	60	<0.05	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<0.1	<0.1	<20	<25	<25	<20	<45	<45	<100	<25	
TP54_0.0-0.2		15/12/2021	0.0-0.2	19.0	No	<0.01	-	11	<0.3	8.9	19	16	9.1	47	<0.05	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<0.1	<0.1	<20	<25	<25	<20	<45	<45	<100	<25	
F01		14/12/2021	-	-	-	-	Yes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
F02		15/12/2021	-	-	-	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
F03		15/12/2021	-	-	-	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
F04		15/12/2021	-	-	-	-	Yes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trip Blank 1		13/12/2021	-	<1	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<0.1	-	-	-	-	-	-	-	-	-	
Trip Spike A		13/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	[79%]	[82%]	[85%]	[85%]	[88%]	-	-	-	-	-	-	-	-	-	-	-	-	-
PP1		17/12/2021	0.4-0.5	20.0	-	-	-	140	1.5	41	46	33	5.5	80	0.05	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.3	<0.6	<0.1	<20	<25	<25	52	1900	970	<100	81	
PP2		17/12/2021	0.4-0.5	12.8	-	-	-	9	<0.3	11	16	17	9.4	33	<0.05	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.3	<0.6	<0.1	<20	<25	<25	<20	<45	<45	<100	<25	
PP4		17/12/2021	0.4-0.5	22.3	-	-	-	8	<0.3	16	27	18	14	34	<0.05	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.3	<0.6	<0.1	<20	<25	<25	23	560	240	<100	40	
QZ08		17/12/2021	-	18.1	-	-	-	8	<0.3	12	15	11	13	35	<0.05	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.3	<0.6	<0.1	<20	<25	<25	<20	<45	<45	<100	<25	
PP5		17/12/2021	0.4-0.5	19.9	-	-	-	12	<0.3	22	22	16	19	56	<0.05	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.3	<0.6	<0.1	<20	<25	<25	<20	<45	<45	<100	<25	
PP7		17/12/2021	0.4-0.5	19.8	-	-	-	5	<0.3	15	15	11	4.1	23	<0.05	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.3	<0.6	<0.1	<20	<25	<25	<20	<45	<45	<100	<25	
QZ07		17/12/2021	-	19.9	-	-	-	5	<0.3	18	17	10	5.0	20	<0.05	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.3	<0.6	<0.1	<20	<25	<25	<20	<45	<45	<100	<25	
PP8		17/12/2021	0.4-																														

Table 1 SES_631 - Soil Analytical Results Detailed Phase 2 Contamination Assessment	Asbestos				Total Recoverable Elements								BTEXN								Volatile Hydrocarbons				Total Recoveral						
	Moisture	Asbestos in Soil Detected	Estimated Fibres	Asbestos In Bulk Detected	Arsenic, As	Cadmium, Cd	Chromium, Cr	Copper, Cu	Lead, Pb	Nickel, Ni	Zinc, Zn	Mercury, Hg	Benzene	Toluene	Ethylbenzene	m/p-xylene	o-xylene	Total Xylenes	Total BTEX	Naphthalene	Benzene (F0)	TRH C6-C9	TRH C6-C10	TRH C6-C10 minus BTEX (F1)	TRH C10-C14	TRH C15-C28	TRH C29-C36	TRH C37-C40	TRH >C10-C16		
	Units	%w/w	No unit	%w/w	No unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		
	EQL	1	0	0.01	0	1	0.3	0.5	0.5	1	0.5	2	0.05	0.1	0.1	0.1	0.2	0.1	0.3	0.6	0.1	0.1	20	25	25	20	45	45	100	25	
	HIL A - Residential with Access to Soils	-	Detect	-	Detect	100 ^{#5}	20	100	6000	300 ^{#4}	400	7400	40 ^{#3}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	HSL-A Residential for VI (Clay, 0 to <1m)	-	-	-	-	-	-	-	-	-	-	-	-	0.7	480	NL(68)	-	-	110	-	5	0.7	-	-	50	-	-	-	-	-	
	CRC Care Direct Contact HSL-A Residential	-	-	-	-	-	-	-	-	-	-	-	-	100	14000	4500	-	-	12000	-	1400	100	-	-	4400	-	-	-	-	-	
	NEPM Derived EILs - Urban Residential	-	-	-	-	100	-	410	210	1100	170	480	-	-	-	-	-	-	-	-	170	-	-	-	-	-	-	-	-	-	
	NEPM ESLs - Urban Residential (Fine)	-	-	-	-	-	-	-	-	-	-	-	-	50	85	70	-	-	105	-	-	-	-	-	180	-	-	-	-	-	
	Management Limits - Residential	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	700	-	-	-	-	-	1000	
Sample ID	Date	Depth																													
QZ09	17/12/2021	-	20.9	-	-	-	11	<0.3	23	20	13	17	53	<0.05	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.3	<0.6	<0.1	<20	<25	<25	<20	<45	<45	<100	<25
PP19	17/12/2021	0.4-0.5	18.4	-	-	-	8	<0.3	13	18	15	8.1	30	<0.05	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.3	<0.6	<0.1	<20	<25	<25	<20	<45	<45	<100	<25
F05	17/12/2021	-	-	-	-	Yes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pipe01	17/12/2021	-	-	-	-	Yes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Notes

- NL - Derived soil HSL exceeds soil saturation concentraiton
- To obtain F2 subtract napthalene from the >C10 - C16 fraction.
- To obtain F1 subtract the sum of BTEX concentrations from the C6 - C10 fraction.
- ERRATA Updated 30 April 2014 . Naphthalene should not be subtracted.
- Separate management limits for BTEX & naphthalene are not available hence should not be subtracted from the relevant fractions to obtain F1 & F2
- EILs derived using following assumed parameters; pH=6.5, CEC=10, Clay 10% and OC=1%
- #1 Carcinogenic PAHs: HIL based on 8 carc. PAHs & their TEFs
- #2 Total PAHs: Based on sum of 16 most common reported (WHO 98)
- #4 Elemental mercury: HIL does not address elemental mercury.
- #5 Arsenic: HIL assumes 70% oral bioavailability.
- #6 Lead: HILs A,B,C based on blood lead models
- * Criteria for total Aldrin and Dieldrin combined
- # Criteria for total DDT, DDE and DDD combined
- ^ Criteria for total endosulfan combined
- ** Criteria for total chlordane combined

Table 1
SES_631 - Soil Analytical Results
Detailed Phase 2 Contamination Assessment

Table 1 SES_631 - Soil Analytical Results Detailed Phase 2 Contamination Assessment			ole Hydrocarbons					Polynuclear Aromatic Hydrocarbons ^{#1 #2}																								
			TRH >C10-C16 - Naphthalene (F2)	TRH >C16-C34 (F3)	TRH >C34-C40 (F4)	TRH C10-C36 Total	TRH >C10-C40 Total (F bands)	Naphthalene	2-methylnaphthalene	1-methylnaphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(a)anthracene	Chrysene	Benzo(b&j)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenzo(ah)anthracene	Benzo(ghi)perylene	Carcinogenic PAHs, BaP TEQ <LOR=0	Carcinogenic PAHs, BaP TEQ <LOR=LOR	Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	Total PAH (18)	Total PAH (NEPM/WHO 16)		
			Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	EQ (mg/kg)	EQ (mg/kg)	EQ (mg/kg)	mg/kg	mg/kg
			EQL	25	90	120	110	210	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	0.1	0.1	0.1	0.1	0.2	0.3	0.2	0.8	0.8
			HIL A - Residential with Access to Soils	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	-	300
			HSL-A Residential for VI (Clay, 0 to <1m)			280	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CRC Care Direct Contact HSL-A Residential			3300	4500	6300	-	-	1400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
NEPM Derived EILs - Urban Residential			-	-	-	-	-	170	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
NEPM ESLs - Urban Residential (Fine)			120	1300	5600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.7	-	-	-	-	-	-	-	-		
Management Limits - Residential			-	2500	10000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Sample ID	Date	Depth																														
TP01_0.0-0.2	13/12/2021	0.0-0.2	<25	<90	<120	<110	<210	<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	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8			
QZ01	13/12/2021	-	<25	<90	<120	<110	<210	<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	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8			
TP02_0.0-0.1	13/12/2021	0.0-0.1	<25	<90	<120	<110	<210	<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	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8			
TP03_0.0-0.2	13/12/2021	0.0-0.2	<25	<90	<120	<110	<210	<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	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8			
TP04_0.0-0.1	13/12/2021	0.0-0.1	<25	<90	<120	<110	<210	<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	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8			
TP05_0.0-0.1	13/12/2021	0.0-0.1	<25	<90	<120	<110	<210	<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	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8			
TP06_0.4-0.5	13/12/2021	0.4-0.5	<25	<90	<120	<110	<210	<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	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8			
TP06_0.7-0.9	13/12/2021	0.7-0.9	<25	<90	<120	<110	<210	<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	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8			
TP07_0.2-0.3	13/12/2021	0.2-0.3	<25	<90	<120	<110	<210	<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	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8			
TP07_0.9-1.1	13/12/2021	0.9-1.1	<25	<90	<120	<110	<210	<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	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8			
TP08_0.4-0.5	13/12/2021	0.4-0.5	<25	<90	<120	<110	<210	<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	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8			
QZ02	13/12/2021	-	<25	<90	<120	<110	<210	<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	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8			
TP08_0.8-0.9	13/12/2021	0.8-0.9	<25	<90	<120	<110	<210	<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	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8			
TP10_0.1-0.2	13/12/2021	0.1-0.2	<25	<90	<120	<110	<210	<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	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8			
TP11_0.1-0.2	13/12/2021	0.1-0.2	<25	<90	<120	<110	<210	<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	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8			
TP12_0.0-0.2	13/12/2021	0.0-0.2	<25	<90	<120	<110	<210	<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	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8			
TP13_0.0-0.1	13/12/2021	0.0-0.1	<25	<90	<120	<110	<210	<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	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8			
TP14_0.0-0.1	13/12/2021	0.0-0.1	<25	<90	<120	<110	<210	<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	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8			

Table 1
SES_631 - Soil Analytical Results
Detailed Phase 2 Contamination Assessment

[illegible]

Table 1
SES_631 - Soil Analytical Results
Detailed Phase 2 Contamination Assessment

[illegible]

[illegible]

Table 1 SES_631 - Soil Analytical Results Detailed Phase 2 Contamination Assessment			Speciated Phenols															OC Pesticides															
			Phenol	2-methyl phenol (o-cresol)	3/4-methyl phenol (m/p-cresol)	Total Cresol	2-chlorophenol	2,4-dimethylphenol	2,6-dichlorophenol	2,4-dichlorophenol	2,4,6-trichlorophenol	2-nitrophenol	4-nitrophenol	2,4,5-trichlorophenol	2,3,4,6/2,3,5,6-tetrachlorophenol	Pentachlorophenol	2,4-dinitrophenol	4-chloro-3-methylphenol	Hexachlorobenzene (HCB)	alpha-BHC	Lindane	Heptachlor	Aldrin	beta-BHC	delta-BHC	Heptachlor epoxide	o,p-DDE	alpha-Endosulfan	gamma-Chlordane	alpha-Chlordane	trans-Nonachlor	p,p-DDE	Dieldrin
Units			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL			0.5	0.5	1	1.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	1	0.5	2	2	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
HIL A - Residential with Access to Soils			3000	-	-	400	-	-	-	-	-	-	-	-	100	-	-	10	-	-	6	6*	-	-	-	240 [#]	270 [^]	50 ^{**}	50 ^{**}	-	240 [#]	6*	
HSL-A Residential for VI (Clay, 0 to <1m)			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CRC Care Direct Contact HSL-A Residential			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NEPM Derived EILs - Urban Residential			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	180 [#]	-	-	-	-	180 [#]	-	
NEPM ESLs - Urban Residential (Fine)			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Management Limits - Residential			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sample ID	Date	Depth																															
TP01_0.0-0.2	13/12/2021	0.0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	
QZ01	13/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP02_0.0-0.1	13/12/2021	0.0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	
TP03_0.0-0.2	13/12/2021	0.0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	
TP04_0.0-0.1	13/12/2021	0.0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	
TP05_0.0-0.1	13/12/2021	0.0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	
TP06_0.4-0.5	13/12/2021	0.4-0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	
TP06_0.7-0.9	13/12/2021	0.7-0.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	
TP07_0.2-0.3	13/12/2021	0.2-0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	
TP07_0.9-1.1	13/12/2021	0.9-1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	
TP08_0.4-0.5	13/12/2021	0.4-0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	
QZ02	13/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP08_0.8-0.9	13/12/2021	0.8-0.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	
TP10_0.1-0.2	13/12/2021	0.1-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	
TP11_0.1-0.2	13/12/2021	0.1-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	
TP12_0.0-0.2	13/12/2021	0.0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	
TP13_0.0-0.1	13/12/2021	0.0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	
TP14_0.0-0.1	13/12/2021	0.0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	

Table 1 SES_631 - Soil Analytical Results Detailed Phase 2 Contamination Assessment				Speciated Phenols															OC Pesticides														
				Phenol	2-methyl phenol (o-cresol)	3/4-methyl phenol (m/p-cresol)	Total Cresol	2-chlorophenol	2,4-dimethylphenol	2,6-dichlorophenol	2,4-dichlorophenol	2,4,6-trichlorophenol	2-nitrophenol	4-nitrophenol	2,4,5-trichlorophenol	2,3,4,6/2,3,5,6-tetrachlorophenol	Pentachlorophenol	2,4-dinitrophenol	4-chloro-3-methylphenol	Hexachlorobenzene (HCB)	alpha-BHC	Lindane	Heptachlor	Aldrin	beta-BHC	delta-BHC	Heptachlor epoxide	o,p-DDE	alpha-Endosulfan	gamma-Chlordane	alpha-Chlordane	trans-Nonachlor	p,p-DDE
Units				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.5	0.5	1	1.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	2	2	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
HIL A - Residential with Access to Soils				3000	-	-	400	-	-	-	-	-	-	-	100	-	-	10	-	-	6	6*	-	-	-	240#	270^	50**	50**	-	240#	6*	
HSL-A Residential for VI (Clay, 0 to <1m)				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CRC Care Direct Contact HSL-A Residential				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM Derived EILs - Urban Residential				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	180#	-	-	-	-	180#	-	-
NEPM ESLs - Urban Residential (Fine)				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Management Limits - Residential				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sample ID	Date	Depth																															
TP15_0.0-0.2	13/12/2021	0.0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
QZ03	13/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP16_0.0-0.2	13/12/2021	0.0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP17_0.0-0.2	13/12/2021	0.0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP18_0.0-0.2	13/12/2021	0.0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP19_0.0-0.2	13/12/2021	0.0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP20_0.0-0.2	13/12/2021	0.0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP21_0.0-0.2	13/12/2021	0.0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP22_0.0-0.2	13/12/2021	0.0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP23_0.1-0.3	13/12/2021	0.1-0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP24_0.1-0.3	13/12/2021	0.1-0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP25_0.0-0.1	13/12/2021	0.0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP26_0.1-0.3	13/12/2021	0.1-0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP27_0.2-0.4	13/12/2021	0.2-0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP28_0.1-0.3	14/12/2021	0.1-0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP29_0.0-0.1	14/12/2021	0.0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP30_0.0-0.1	14/12/2021	0.0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP31_0.0-0.2	14/12/2021	0.0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP32_0.1-0.2	14/12/2021	0.1-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP33_0.1-0.2	14/12/2021	0.1-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
QZ04	14/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP34_0.0-0.1	14/12/2021	0.0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP35_0.2-0.3	14/12/2021	0.2-0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP36_0.0-0.1	14/12/2021	0.0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP37_0.0-0.2	14/12/2021	0.0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP38_0.1-0.3	14/12/2021	0.1-0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.2	
TP39_0.0-0.2	14/12/2021	0.0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.2	
TP40_0.0-0.1	14/12/2021	0.0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.2	
TP41_0.1-0.2	14/12/2021	0.1-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.2	
TP42_0.2-0.4	14/12/2021	0.2-0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.2	
QZ05	14/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP43_0.1-0.2	14/12/2021	0.1-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.2	
TP44_0.0-0.2	14/12/2021	0.0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.2	
TP45_0.0-0.2	14/12/2021	0.0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.2	

Table 1 SES_631 - Soil Analytical Results Detailed Phase 2 Contamination Assessment				Speciated Phenols																OC Pesticides															
				Phenol	2-methyl phenol (o-cresol)	3/4-methyl phenol (m/p-cresol)	Total Cresol	2-chlorophenol	2,4-dimethylphenol	2,6-dichlorophenol	2,4-dichlorophenol	2,4,6-trichlorophenol	2-nitrophenol	4-nitrophenol	2,4,5-trichlorophenol	2,3,4,6/2,3,5,6-tetrachlorophenol	Pentachlorophenol	2,4-dinitrophenol	4-chloro-3-methylphenol	Hexachlorobenzene (HCB)	alpha-BHC	Lindane	Heptachlor	Aldrin	beta-BHC	delta-BHC	Heptachlor epoxide	o,p-DDE	alpha-Endosulfan	gamma-Chlordane	alpha-Chlordane	trans-Nonachlor	p,p-DDE	Dieldrin	
Units				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		
EQL				0.5	0.5	1	1.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	1	0.5	2	2	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05		
HIL A - Residential with Access to Soils				3000	-	-	400	-	-	-	-	-	-	-	100	-	-	10	-	-	6	6*	-	-	-	240 [#]	270 [^]	50 ^{**}	50 ^{**}	-	240 [#]	6*			
HSL-A Residential for VI (Clay, 0 to <1m)				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
CRC Care Direct Contact HSL-A Residential				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
NEPM Derived EILs - Urban Residential				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	180 [#]	-	-	-	-	180 [#]	-			
NEPM ESLs - Urban Residential (Fine)				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Management Limits - Residential				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Sample ID	Date	Depth																																	
TP46_0.1-0.3	15/12/2021	0.1-0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.2	
TP47_0.0-0.1	15/12/2021	0.0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.2	
TP48_0.0-0.1	15/12/2021	0.0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.2	
TP49_0.0-0.2	15/12/2021	0.0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.2	
TP49_0.4-0.5	15/12/2021	0.4-0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.2	
QZ06	15/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
TP51_0.0-0.2	15/12/2021	0.0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.2	
TP52_0.0-0.1	15/12/2021	0.0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.2	
TP53_0.0-0.2	15/12/2021	0.0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.2	
TP54_0.0-0.2	15/12/2021	0.0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.2	
F01	14/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
F02	15/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
F03	15/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
F04	15/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Trip Blank 1	13/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Trip Spike A	13/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
PP1	17/12/2021	0.4-0.5	<0.5	<0.5	<1	<1.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<2	<2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.2		
PP2	17/12/2021	0.4-0.5	<0.5	<0.5	<1	<1.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<2	<2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.2		
PP4	17/12/2021	0.4-0.5	<0.5	<0.5	<1	<1.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<2	<2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.2			
QZ08	17/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
PP5	17/12/2021	0.4-0.5	<0.5	<0.5	<1	<1.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<2	<2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.2			
PP7	17/12/2021	0.4-0.5	<0.5	<0.5	<1	<1.5	<0.5	<0.5	<0.5	<0.5	<0.5																								

[illegible]

Table 1
SES_631 - Soil Analytical Results
Detailed Phase 2 Contamination Assessment

Table 1 SES_631 - Soil Analytical Results Detailed Phase 2 Contamination Assessment	in Soil																OP Pesticides in Soil												PCBs in Soil							
	Endrin	o.p-DDD	o.p-DDT	beta-Endosulfan	p.p-DDD	p.p-DDT	Endosulfan sulfate	Endrin aldehyde	Methoxychlor	Endrin ketone	Isodrin	Mirex	Sum of DDD + DDE + DDT	Sum of Aldrin + Dieldrin	Dichlorvos	Dimethoate	Diazinon (Dimpylate)	Fenitrothion	Malathion	Chlorpyrifos (Chlorpyrifos Ethyl)	Parathion-ethyl (Parathion)	Bromophos Ethyl	Methidathion	Ethion	Azinphos-methyl (Guthion)	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254					
	Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg				
	EQL	0.05	0.05	0.05	0.05	0.05	0.2	0.05	0.05	0.2	0.05	0.1	0.1	0.05	0.05	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.2	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2				
	HIL A - Residential with Access to Soils	10	240 [#]	240 [#]	270 [^]	240 [#]	240 [#]	-	-	300	-	-	-	240 [#]	6 [*]	-	-	-	-	-	160	-	-	-	-	-	-	-	-	-	-	-				
	HSL-A Residential for VI (Clay, 0 to <1m)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
	CRC Care Direct Contact HSL-A Residential	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
	NEPM Derived EILs - Urban Residential	-	180 [#]	180 [#]	-	180 [#]	180 [#]	-	-	-	-	-	-	180 [#]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	NEPM ESLs - Urban Residential (Fine)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	Management Limits - Residential	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Sample ID	Date	Depth																																		
TP01_0.0-0.2	13/12/2021	0.0-0.2	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	ND	ND	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2					
QZ01	13/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
TP02_0.0-0.1	13/12/2021	0.0-0.1	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	ND	ND	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2					
TP03_0.0-0.2	13/12/2021	0.0-0.2	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	ND	ND	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2					
TP04_0.0-0.1	13/12/2021	0.0-0.1	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	ND	ND	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2					
TP05_0.0-0.1	13/12/2021	0.0-0.1	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	ND	ND	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2					
TP06_0.4-0.5	13/12/2021	0.4-0.5	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	ND	ND	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2					
TP06_0.7-0.9	13/12/2021	0.7-0.9	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	ND	ND	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2					
TP07_0.2-0.3	13/12/2021	0.2-0.3	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	ND	ND	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2					
TP07_0.9-1.1	13/12/2021	0.9-1.1	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	ND	ND	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2					
TP08_0.4-0.5	13/12/2021	0.4-0.5	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	ND	ND	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2					
QZ02	13/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
TP08_0.8-0.9	13/12/2021	0.8-0.9	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	ND	ND	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2					
TP10_0.1-0.2	13/12/2021	0.1-0.2	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	ND	ND	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2					
TP11_0.1-0.2	13/12/2021	0.1-0.2	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	ND	ND	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2					
TP12_0.0-0.2	13/12/2021	0.0-0.2	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	ND	ND	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2					
TP13_0.0-0.1	13/12/2021	0.0-0.1	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	ND	ND	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2					
TP14_0.0-0.1	13/12/2021	0.0-0.1	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	ND	ND	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2					

Table 1
SES_631 - Soil Analytical Results
Detailed Phase 2 Contamination Assessment

Table 1 SES_631 - Soil Analytical Results Detailed Phase 2 Contamination Assessment			in Soil														OP Pesticides in Soil												PCBs in Soil							
			Endrin	o.p-DDD	o.p-DDT	beta-Endosulfan	p.p-DDD	p.p-DDT	Endosulfan sulfate	Endrin aldehyde	Methoxychlor	Endrin ketone	Isodrin	Mirex	Sum of DDD + DDE + DDT	Sum of Aldrin + Dieldrin	Dichlorvos	Dimethoate	Diazinon (Dimpylate)	Fenitrothion	Malathion	Chlorpyrifos (Chlorpyrifos Ethyl)	Parathion-ethyl (Parathion)	Bromophos Ethyl	Methidathion	Ethion	Azinphos-methyl (Guthion)	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254			
			Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		
			EQL	0.05	0.05	0.05	0.05	0.05	0.2	0.05	0.05	0.2	0.05	0.1	0.1	0.05	0.05	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.2		
			HIL A - Residential with Access to Soils	10	240 [#]	240 [#]	270 [^]	240 [#]	240 [#]	-	-	300	-	-	-	240 [#]	6 [*]	-	-	-	-	-	-	160	-	-	-	-	-	-	-	-	-	-	-	
			HSL-A Residential for VI (Clay, 0 to <1m)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			CRC Care Direct Contact HSL-A Residential	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			NEPM Derived EILs - Urban Residential	-	180 [#]	180 [#]	-	180 [#]	180 [#]	-	-	-	-	-	-	-	180 [#]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			NEPM ESLs - Urban Residential (Fine)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Management Limits - Residential			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Sample ID	Date	Depth																																		
TP15_0.0-0.2	13/12/2021	0.0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
QZ03	13/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
TP16_0.0-0.2	13/12/2021	0.0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
TP17_0.0-0.2	13/12/2021	0.0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
TP18_0.0-0.2	13/12/2021	0.0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
TP19_0.0-0.2	13/12/2021	0.0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
TP20_0.0-0.2	13/12/2021	0.0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
TP21_0.0-0.2	13/12/2021	0.0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
TP22_0.0-0.2	13/12/2021	0.0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
TP23_0.1-0.3	13/12/2021	0.1-0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
TP24_0.1-0.3	13/12/2021	0.1-0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
TP25_0.0-0.1	13/12/2021	0.0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
TP26_0.1-0.3	13/12/2021	0.1-0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
TP27_0.2-0.4	13/12/2021	0.2-0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
TP28_0.1-0.3	14/12/2021	0.1-0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
TP29_0.0-0.1	14/12/2021	0.0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
TP30_0.0-0.1	14/12/2021	0.0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
TP31_0.0-0.2	14/12/2021	0.0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
TP32_0.1-0.2	14/12/2021	0.1-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
TP33_0.1-0.2	14/12/2021	0.1-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
QZ04	14/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
TP34_0.0-0.1	14/12/2021	0.0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
TP35_0.2-0.3	14/12/2021	0.2-0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
TP36_0.0-0.1	14/12/2021	0.0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
TP37_0.0-0.2	14/12/2021	0.0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
TP38_0.1-0.3	14/12/2021	0.1-0.3	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	ND	ND	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2			
TP39_0.0-0.2	14/12/2021	0.0-0.2	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	ND	ND	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2			
TP40_0.0-0.1	14/12/2021	0.0-0.1	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	ND	ND	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2			
TP41_0.1-0.2	14/12/2021	0.1-0.2	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	ND	ND	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2			
TP42_0.2-0.4	14/12/2021	0.2-0.4	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	ND	ND	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2			
QZ05	14/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
TP43_0.1-0.2	14/12/2021	0.1-0.2	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	ND	ND	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2			
TP44_0.0-0.2	14/12/2021	0.0-0.2	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	ND	ND	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2			
TP45_0.0-0.2	14/12/2021	0.0-0.2	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	ND	ND	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2			

Table 1 SES_631 - Soil Analytical Results Detailed Phase 2 Contamination Assessment				in Soil												OP Pesticides in Soil												PCBs in Soil						
				Endrin	o,p-DDD	o,p-DDT	beta-Endosulfan	p,p-DDD	p,p-DDT	Endosulfan sulfate	Endrin aldehyde	Methoxychlor	Endrin ketone	Isodrin	Mirex	Sum of DDD + DDE + DDT	Sum of Aldrin + Dieldrin	Dichlorvos	Dimethoate	Diazinon (Dimpylate)	Fenitrothion	Malathion	Chlorpyrifos (Chlorpyrifos Ethyl)	Parathion-ethyl (Parathion)	Bromophos Ethyl	Methidathion	Ethion	Azinphos-methyl (Guthion)	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254
Units				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.05	0.05	0.05	0.05	0.05	0.2	0.05	0.05	0.2	0.05	0.1	0.1	0.05	0.05	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.2	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
HIL A - Residential with Access to Soils				10	240 [#]	240 [#]	270 [^]	240 [#]	240 [#]	-	-	300	-	-	-	240 [#]	6 [*]	-	-	-	-	-	160	-	-	-	-	-	-	-	-	-	-	-
HSL-A Residential for VI (Clay, 0 to <1m)				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CRC Care Direct Contact HSL-A Residential				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM Derived EILs - Urban Residential				-	180 [#]	180 [#]	-	180 [#]	180 [#]	-	-	-	-	-	-	180 [#]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM ESLs - Urban Residential (Fine)				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Management Limits - Residential				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sample ID	Date	Depth																																
TP46_0.1-0.3	15/12/2021	0.1-0.3	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	ND	ND	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
TP47_0.0-0.1	15/12/2021	0.0-0.1	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	ND	ND	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
TP48_0.0-0.1	15/12/2021	0.0-0.1	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	ND	ND	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
TP49_0.0-0.2	15/12/2021	0.0-0.2	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	ND	ND	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
TP49_0.4-0.5	15/12/2021	0.4-0.5	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	ND	ND	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
QZ06	15/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP51_0.0-0.2	15/12/2021	0.0-0.2	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	ND	ND	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
TP52_0.0-0.1	15/12/2021	0.0-0.1	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	ND	ND	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
TP53_0.0-0.2	15/12/2021	0.0-0.2	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	ND	ND	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
TP54_0.0-0.2	15/12/2021	0.0-0.2	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	ND	ND	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
F01	14/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
F02	15/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
F03	15/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
F04	15/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trip Blank 1	13/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trip Spike A	13/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PP1	17/12/2021	0.4-0.5	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	ND	ND	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
PP2	17/12/2021	0.4-0.5	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	ND	ND	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
PP4	17/12/2021	0.4-0.5	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	ND	ND	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
QZ08	17/12/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PP5	17/12/2021	0.4-0.5	<0.2	<0.1	<0.1	<0.2	<																											

[illegible]

Table 1 SES_631 - Soil Analytical Results Detailed Phase 2 Contamination Assessment						
			Arochlor 1260	Arochlor 1262	Arochlor 1268	Total PCBs (Arochlors)
Units			mg/kg	mg/kg	mg/kg	mg/kg
EQL			0.2	0.2	0.2	1
HIL A - Residential with Access to Soils			-	-	-	1
HSL-A Residential for VI (Clay, 0 to <1m)			-	-	-	-
CRC Care Direct Contact HSL-A Residential			-	-	-	-
NEPM Derived EILs - Urban Residential			-	-	-	-
NEPM ESLs - Urban Residential (Fine)			-	-	-	-
Management Limits - Residential			-	-	-	-
Sample ID	Date	Depth				
TP01_0.0-0.2	13/12/2021	0.0-0.2	<0.2	<0.2	<0.2	<1
QZ01	13/12/2021	-	-	-	-	-
TP02_0.0-0.1	13/12/2021	0.0-0.1	<0.2	<0.2	<0.2	<1
TP03_0.0-0.2	13/12/2021	0.0-0.2	<0.2	<0.2	<0.2	<1
TP04_0.0-0.1	13/12/2021	0.0-0.1	<0.2	<0.2	<0.2	<1
TP05_0.0-0.1	13/12/2021	0.0-0.1	<0.2	<0.2	<0.2	<1
TP06_0.4-0.5	13/12/2021	0.4-0.5	<0.2	<0.2	<0.2	<1
TP06_0.7-0.9	13/12/2021	0.7-0.9	<0.2	<0.2	<0.2	<1
TP07_0.2-0.3	13/12/2021	0.2-0.3	<0.2	<0.2	<0.2	<1
TP07_0.9-1.1	13/12/2021	0.9-1.1	<0.2	<0.2	<0.2	<1
TP08_0.4-0.5	13/12/2021	0.4-0.5	<0.2	<0.2	<0.2	<1
QZ02	13/12/2021	-	-	-	-	-
TP08_0.8-0.9	13/12/2021	0.8-0.9	<0.2	<0.2	<0.2	<1
TP10_0.1-0.2	13/12/2021	0.1-0.2	<0.2	<0.2	<0.2	<1
TP11_0.1-0.2	13/12/2021	0.1-0.2	<0.2	<0.2	<0.2	<1
TP12_0.0-0.2	13/12/2021	0.0-0.2	<0.2	<0.2	<0.2	<1
TP13_0.0-0.1	13/12/2021	0.0-0.1	<0.2	<0.2	<0.2	<1
TP14_0.0-0.1	13/12/2021	0.0-0.1	<0.2	<0.2	<0.2	<1

Table 1 SES_631 - Soil Analytical Results Detailed Phase 2 Contamination Assessment						
			Arochlor 1260	Arochlor 1262	Arochlor 1268	Total PCBs (Arochlors)
Units			mg/kg	mg/kg	mg/kg	mg/kg
EQL			0.2	0.2	0.2	1
HIL A - Residential with Access to Soils			-	-	-	1
HSL-A Residential for VI (Clay, 0 to <1m)			-	-	-	-
CRC Care Direct Contact HSL-A Residential			-	-	-	-
NEPM Derived EILs - Urban Residential			-	-	-	-
NEPM ESLs - Urban Residential (Fine)			-	-	-	-
Management Limits - Residential			-	-	-	-
Sample ID	Date	Depth				
TP15_0.0-0.2	13/12/2021	0.0-0.2	-	-	-	-
QZ03	13/12/2021	-	-	-	-	-
TP16_0.0-0.2	13/12/2021	0.0-0.2	-	-	-	-
TP17_0.0-0.2	13/12/2021	0.0-0.2	-	-	-	-
TP18_0.0-0.2	13/12/2021	0.0-0.2	-	-	-	-
TP19_0.0-0.2	13/12/2021	0.0-0.2	-	-	-	-
TP20_0.0-0.2	13/12/2021	0.0-0.2	-	-	-	-
TP21_0.0-0.2	13/12/2021	0.0-0.2	-	-	-	-
TP22_0.0-0.2	13/12/2021	0.0-0.2	-	-	-	-
TP23_0.1-0.3	13/12/2021	0.1-0.3	-	-	-	-
TP24_0.1-0.3	13/12/2021	0.1-0.3	-	-	-	-
TP25_0.0-0.1	13/12/2021	0.0-0.1	-	-	-	-
TP26_0.1-0.3	13/12/2021	0.1-0.3	-	-	-	-
TP27_0.2-0.4	13/12/2021	0.2-0.4	-	-	-	-
TP28_0.1-0.3	14/12/2021	0.1-0.3	-	-	-	-
TP29_0.0-0.1	14/12/2021	0.0-0.1	-	-	-	-
TP30_0.0-0.1	14/12/2021	0.0-0.1	-	-	-	-
TP31_0.0-0.2	14/12/2021	0.0-0.2	-	-	-	-
TP32_0.1-0.2	14/12/2021	0.1-0.2	-	-	-	-
TP33_0.1-0.2	14/12/2021	0.1-0.2	-	-	-	-
QZ04	14/12/2021	-	-	-	-	-
TP34_0.0-0.1	14/12/2021	0.0-0.1	-	-	-	-
TP35_0.2-0.3	14/12/2021	0.2-0.3	-	-	-	-
TP36_0.0-0.1	14/12/2021	0.0-0.1	-	-	-	-
TP37_0.0-0.2	14/12/2021	0.0-0.2	-	-	-	-
TP38_0.1-0.3	14/12/2021	0.1-0.3	<0.2	<0.2	<0.2	<1
TP39_0.0-0.2	14/12/2021	0.0-0.2	<0.2	<0.2	<0.2	<1
TP40_0.0-0.1	14/12/2021	0.0-0.1	<0.2	<0.2	<0.2	<1
TP41_0.1-0.2	14/12/2021	0.1-0.2	<0.2	<0.2	<0.2	<1
TP42_0.2-0.4	14/12/2021	0.2-0.4	<0.2	<0.2	<0.2	<1
QZ05	14/12/2021	-	-	-	-	-
TP43_0.1-0.2	14/12/2021	0.1-0.2	<0.2	<0.2	<0.2	<1
TP44_0.0-0.2	14/12/2021	0.0-0.2	<0.2	<0.2	<0.2	<1
TP45_0.0-0.2	14/12/2021	0.0-0.2	<0.2	<0.2	<0.2	<1

Table 1 SES_631 - Soil Analytical Results Detailed Phase 2 Contamination Assessment						
			Arochlor 1260	Arochlor 1262	Arochlor 1268	Total PCBs (Arochlors)
Units			mg/kg	mg/kg	mg/kg	mg/kg
EQL			0.2	0.2	0.2	1
HIL A - Residential with Access to Soils			-	-	-	1
HSL-A Residential for VI (Clay, 0 to <1m)			-	-	-	-
CRC Care Direct Contact HSL-A Residential			-	-	-	-
NEPM Derived EILs - Urban Residential			-	-	-	-
NEPM ESLs - Urban Residential (Fine)			-	-	-	-
Management Limits - Residential			-	-	-	-
Sample ID	Date	Depth				
TP46_0.1-0.3	15/12/2021	0.1-0.3	<0.2	<0.2	<0.2	<1
TP47_0.0-0.1	15/12/2021	0.0-0.1	<0.2	<0.2	<0.2	<1
TP48_0.0-0.1	15/12/2021	0.0-0.1	<0.2	<0.2	<0.2	<1
TP49_0.0-0.2	15/12/2021	0.0-0.2	<0.2	<0.2	<0.2	<1
TP49_0.4-0.5	15/12/2021	0.4-0.5	<0.2	<0.2	<0.2	<1
QZ06	15/12/2021	-	-	-	-	-
TP51_0.0-0.2	15/12/2021	0.0-0.2	<0.2	<0.2	<0.2	<1
TP52_0.0-0.1	15/12/2021	0.0-0.1	<0.2	<0.2	<0.2	<1
TP53_0.0-0.2	15/12/2021	0.0-0.2	<0.2	<0.2	<0.2	<1
TP54_0.0-0.2	15/12/2021	0.0-0.2	<0.2	<0.2	<0.2	<1
F01	14/12/2021	-	-	-	-	-
F02	15/12/2021	-	-	-	-	-
F03	15/12/2021	-	-	-	-	-
F04	15/12/2021	-	-	-	-	-
Trip Blank 1	13/12/2021	-	-	-	-	-
Trip Spike A	13/12/2021	-	-	-	-	-
PP1	17/12/2021	0.4-0.5	<0.2	<0.2	<0.2	<1
PP2	17/12/2021	0.4-0.5	<0.2	<0.2	<0.2	<1
PP4	17/12/2021	0.4-0.5	<0.2	<0.2	<0.2	<1
QZ08	17/12/2021	-	-	-	-	-
PP5	17/12/2021	0.4-0.5	<0.2	<0.2	<0.2	<1
PP7	17/12/2021	0.4-0.5	<0.2	<0.2	<0.2	<1
QZ07	17/12/2021	-	-	-	-	-
PP8	17/12/2021	0.4-0.5	<0.2	<0.2	<0.2	<1
PP9	17/12/2021	0.4-0.5	<0.2	<0.2	<0.2	<1
PP10	17/12/2021	0.4-0.5	<0.2	<0.2	<0.2	<1
PP11	17/12/2021	0.4-0.5	<0.2	<0.2	<0.2	<1
PP12	17/12/2021	0.4-0.5	<0.2	<0.2	<0.2	<1
PP13	17/12/2021	0.4-0.5	<0.2	<0.2	<0.2	<1
PP14	17/12/2021	0.4-0.5	<0.2	<0.2	<0.2	<1
PP15	17/12/2021	0.4-0.5	<0.2	<0.2	<0.2	<1
PP16	17/12/2021	0.4-0.5	<0.2	<0.2	<0.2	<1
PP17	17/12/2021	0.4-0.5	<0.2	<0.2	<0.2	<1
PP18	17/12/2021	0.4-0.5	<0.2	<0.2	<0.2	<1

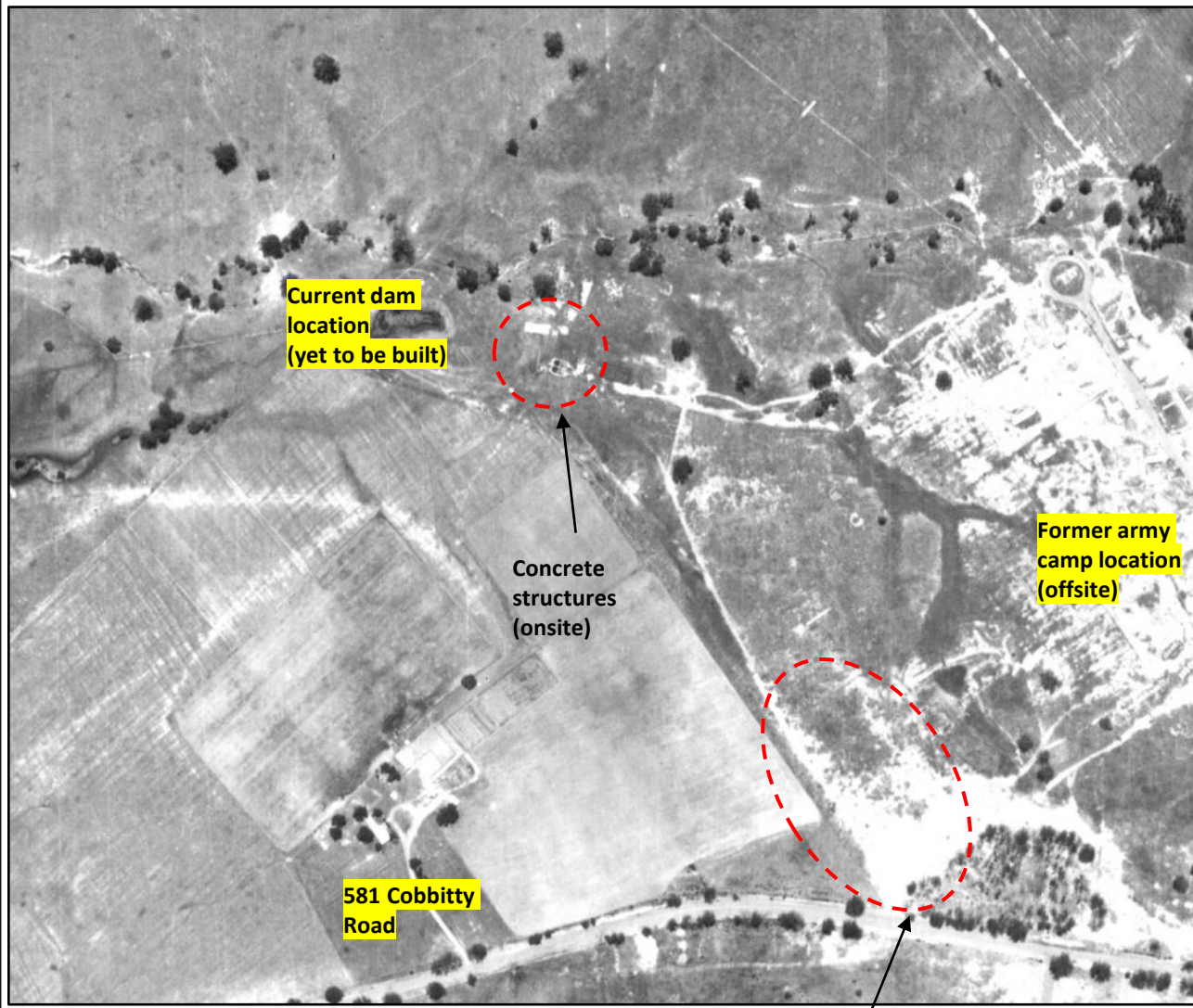
Table 1 SES_631 - Soil Analytical Results Detailed Phase 2 Contamination Assessment						
			Arochlor 1260	Arochlor 1262	Arochlor 1268	Total PCBs (Arochlors)
Units			mg/kg	mg/kg	mg/kg	mg/kg
EQL			0.2	0.2	0.2	1
HIL A - Residential with Access to Soils			-	-	-	1
HSL-A Residential for VI (Clay, 0 to <1m)			-	-	-	-
CRC Care Direct Contact HSL-A Residential			-	-	-	-
NEPM Derived EILs - Urban Residential			-	-	-	-
NEPM ESLs - Urban Residential (Fine)			-	-	-	-
Management Limits - Residential			-	-	-	-
Sample ID	Date	Depth				
QZ09	17/12/2021	-	-	-	-	-
PP19	17/12/2021	0.4-0.5	<0.2	<0.2	<0.2	<1
F05	17/12/2021	-	-	-	-	-
Pipe01	17/12/2021	-	-	-	-	-

Table 2
Soil Sampling QAQC

	Sample ID		PP4	QZ08	%RPD	PP7	QZ07	%RPD	PP18	QZ09	%RPD
	Date		#####	#####		#####	#####		#####	#####	
	Units	EQL									
Moisture	%w/w	1	22.3	18.1	20.8	19.8	19.9	0.5	23.1	20.9	10.0
Arsenic, As	mg/kg	1	8	8	0.0	5	5	0.0	10	11	9.5
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	-	<0.3	<0.3	-	<0.3	<0.3	-
Chromium, Cr	mg/kg	0.5	16	12	28.6	15	18	18.2	24	23	4.3
Copper, Cu	mg/kg	0.5	27	15	57.1	15	17	12.5	13	20	42.4
Lead, Pb	mg/kg	1	18	11	48.3	11	10	9.5	24	13	59.5
Nickel, Ni	mg/kg	0.5	14	13	7.4	4.1	5.0	19.8	6.2	17	93.1
Zinc, Zn	mg/kg	2	34	35	2.9	23	20	14.0	22	53	82.7
Mercury, Hg	mg/kg	0.1	<0.05	<0.05	-	<0.05	<0.05	-	<0.05	<0.05	-
Benzene	mg/kg	0.1	<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	<0.1	-
Ethylbenzene	mg/kg	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	-
o-xylene	mg/kg	0.1	<0.1	<0.1	-	<0.1	<0.1	-	<0.1	<0.1	-
Total Xylenes	mg/kg	0.3	<0.1	<0.1	-	<0.1	<0.1	-	<0.1	<0.1	-
Total BTEX	mg/kg	0.6	<0.3	<0.3	-	<0.3	<0.3	-	<0.3	<0.3	-
Naphthalene	mg/kg	0.1	<0.6	<0.6	-	<0.6	<0.6	-	<0.6	<0.6	-
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	-	<0.1	<0.1	-	<0.1	<0.1	-
TRH C6-C9	mg/kg	20	<20	<20	-	<20	<20	-	<20	<20	-
TRH C6-C10	mg/kg	25	<25	<25	-	<25	<25	-	<25	<25	-
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	-	<25	<25	-	<25	<25	-
TRH C10-C14	mg/kg	20	23	<20	-	<20	<20	-	<20	<20	-
TRH C15-C28	mg/kg	45	560	<45	-	<45	<45	-	<45	<45	-
TRH C29-C36	mg/kg	45	240	<45	-	<45	<45	-	<45	<45	-
TRH C37-C40	mg/kg	100	<100	<100	-	<100	<100	-	<100	<100	-
TRH >C10-C16	mg/kg	25	40	<25	-	<25	<25	-	<25	<25	-
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	40	<25	-	<25	<25	-	<25	<25	-
TRH >C16-C34 (F3)	mg/kg	90	740	<90	-	<90	<90	-	<90	<90	-
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	-	<120	<120	-	<120	<120	-
TRH C10-C36 Total	mg/kg	110	820	<110	-	<110	<110	-	<110	<110	-
TRH >C10-C40 Total (F bands)	mg/kg	210	780	<210	-	<210	<210	-	<210	<210	-
Naphthalene	mg/kg	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	-
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	-	<0.1	<0.1	-	<0.1	<0.1	-
Acenaphthylene	mg/kg	0.1	2.3	<0.1	-	<0.1	<0.1	-	<0.1	<0.1	-
Acenaphthene	mg/kg	0.1	0.2	<0.1	-	<0.1	<0.1	-	<0.1	<0.1	-
Fluorene	mg/kg	0.1	0.3	<0.1	-	<0.1	<0.1	-	<0.1	<0.1	-
Phenanthrene	mg/kg	0.1	0.3	<0.1	-	<0.1	<0.1	-	<0.1	<0.1	-
Anthracene	mg/kg	0.1	1.4	<0.1	-	<0.1	<0.1	-	<0.1	<0.1	-
Fluoranthene	mg/kg	0.1	6.1	<0.1	-	<0.1	<0.1	-	<0.1	<0.1	-
Pyrene	mg/kg	0.1	10	<0.1	-	<0.1	<0.1	-	<0.1	<0.1	-
Benzo(a)anthracene	mg/kg	0.1	9.6	<0.1	-	<0.1	<0.1	-	<0.1	<0.1	-
Chrysene	mg/kg	0.1	8.9	<0.1	-	<0.1	<0.1	-	<0.1	<0.1	-
Benzo(b&j)fluoranthene	mg/kg	0.1	23	<0.1	-	0.3	0.2	-	<0.1	<0.1	-
Benzo(k)fluoranthene	mg/kg	0.1	6.4	<0.1	-	0.1	<0.1	-	<0.1	<0.1	-
Benzo(a)pyrene	mg/kg	0.1	11	<0.1	-	0.1	<0.1	-	<0.1	<0.1	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	6.1	<0.1	-	<0.1	<0.1	-	<0.1	<0.1	-
Dibenzo(ah)anthracene	mg/kg	0.1	1.1	<0.1	-	<0.1	<0.1	-	<0.1	<0.1	-
Benzo(ghi)perylene	mg/kg	0.1	4.5	<0.1	-	<0.1	<0.1	-	<0.1	<0.1	-
Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ (mg/kg)	0.2	16	<0.2	-	<0.2	<0.2	-	<0.2	<0.2	-
Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	0.3	16	<0.3	-	<0.3	<0.3	-	<0.3	<0.3	-
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	16	<0.2	-	0.2	<0.2	-	<0.2	<0.2	-
Total PAH (18)	mg/kg	0.8	91	<0.8	-	<0.8	<0.8	-	<0.8	<0.8	-
Total PAH (NEPM/WHO 16)	mg/kg	0.8	91	<0.8	-	<0.8	<0.8	-	<0.8	<0.8	-

Table 3 Soil Sampling QAQC	Sample ID		Trip Blank 1	Trip Spike A
	Date		13/12/2021	13/12/2021
	Units	EQL		
Moisture	%w/w	1	<1	-
Benzene	mg/kg	0.1	<0.1	[79%]
Toluene	mg/kg	0.1	<0.1	[82%]
Ethylbenzene	mg/kg	0.1	<0.1	[85%]
m/p-xylene	mg/kg	0.2	<0.2	[85%]
o-xylene	mg/kg	0.1	<0.1	[88%]
Total Xylenes	mg/kg	0.3	<0.3	-
Total BTEX	mg/kg	0.6	<0.6	-
Naphthalene	mg/kg	0.1	<0.1	-

Appendix C Aerial Imagery



1947



1947

Concrete
structures



2021

Source: Department of Customer
Service 2020 and Nearmap Oct 2021

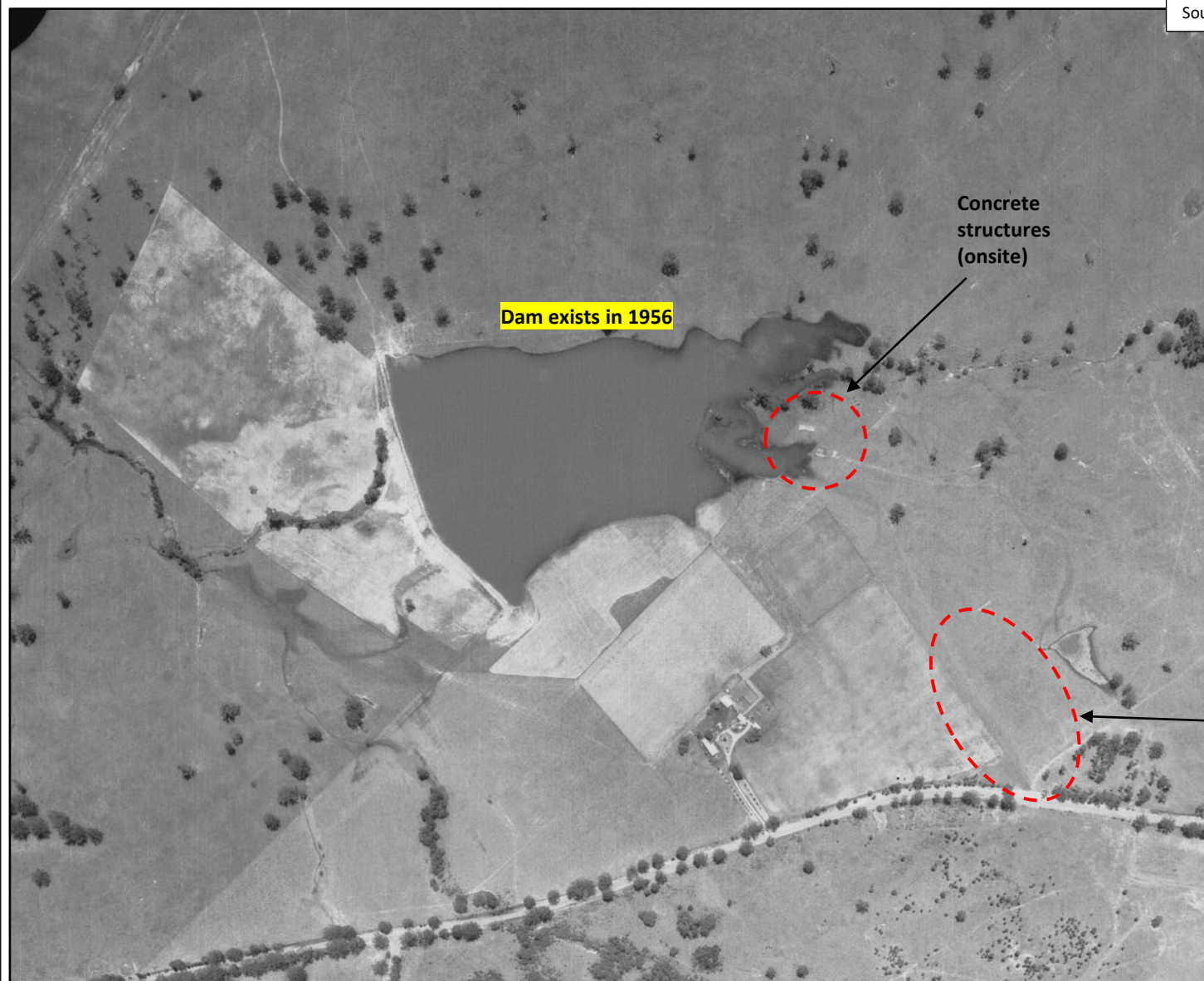


Project #:
SES_631

Appendix C

Title:
Detailed Phase 2 Site Contamination Assessment

Address:
531 Cobbitty Road, Cobbitty NSW 2570



1956

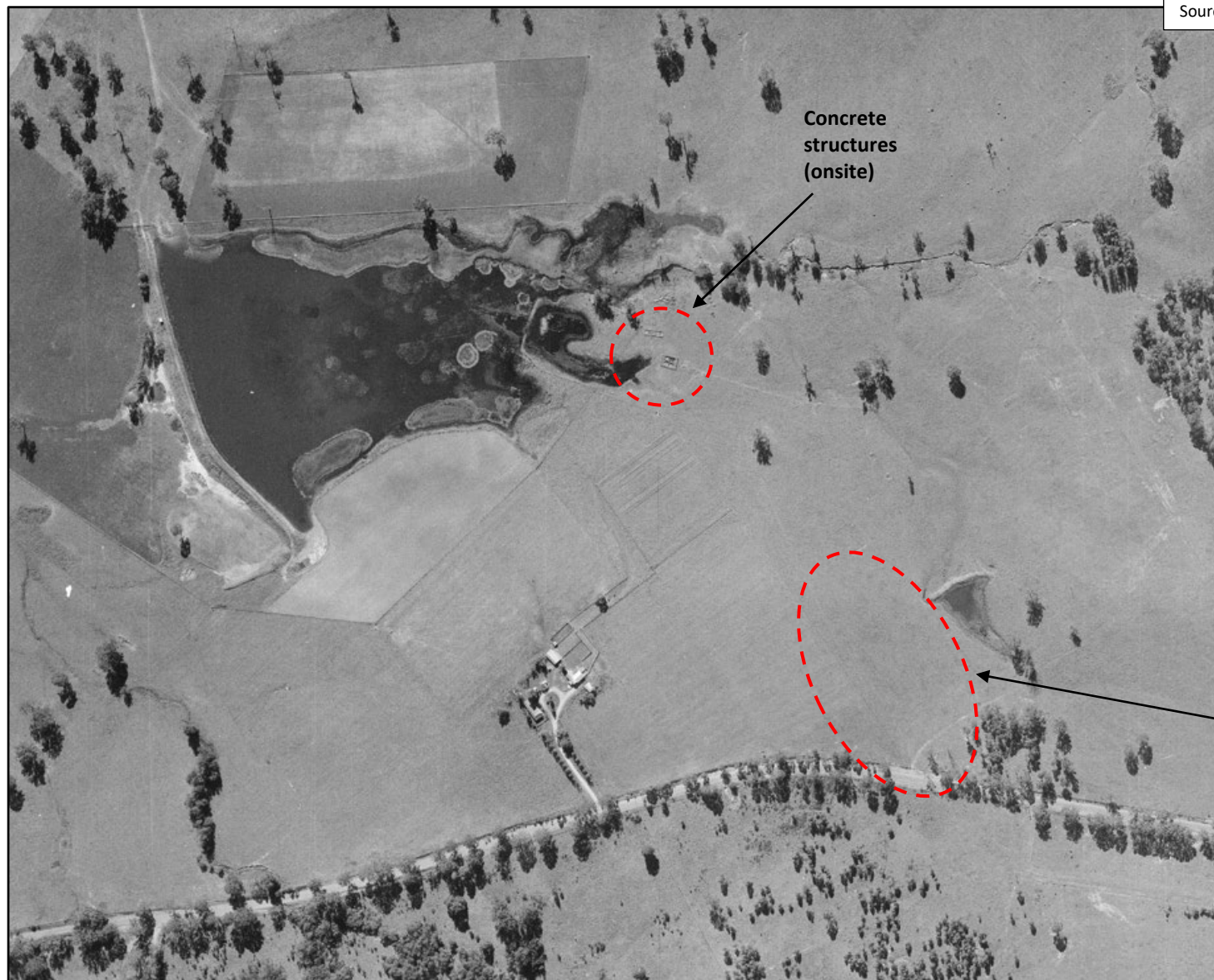


Project #:
SES_631

Appendix C

Title:
Detailed Phase 2 Site Contamination Assessment

Address:
531 Cobbitty Road, Cobbitty NSW 2570



Onsite area
possibly used for
army camp

1961

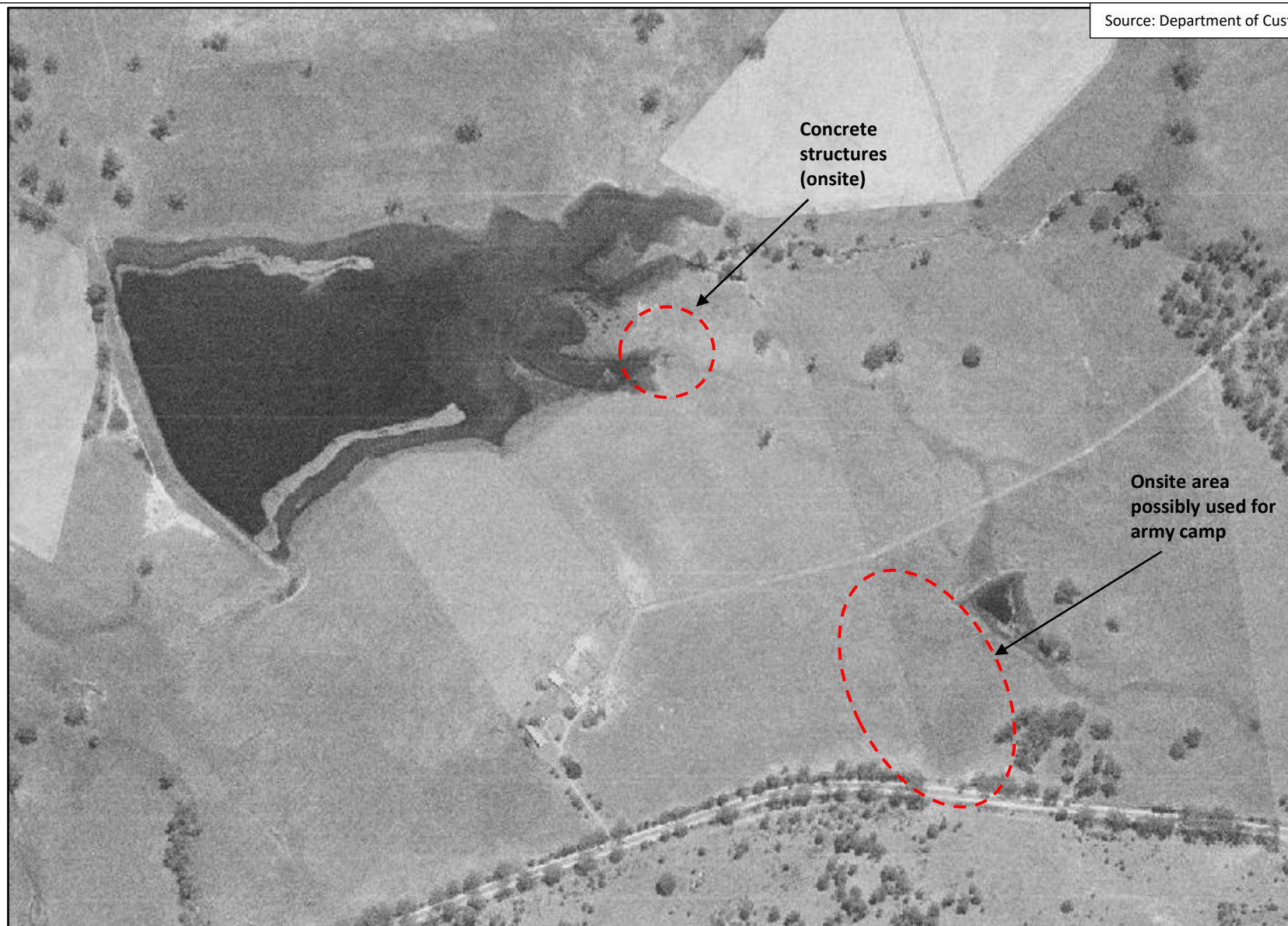


Project #: **SES_631**

Appendix C

Title: **Detailed Phase 2 Site Contamination Assessment**

Address: **531 Cobbitty Road, Cobbitty NSW 2570**



1970

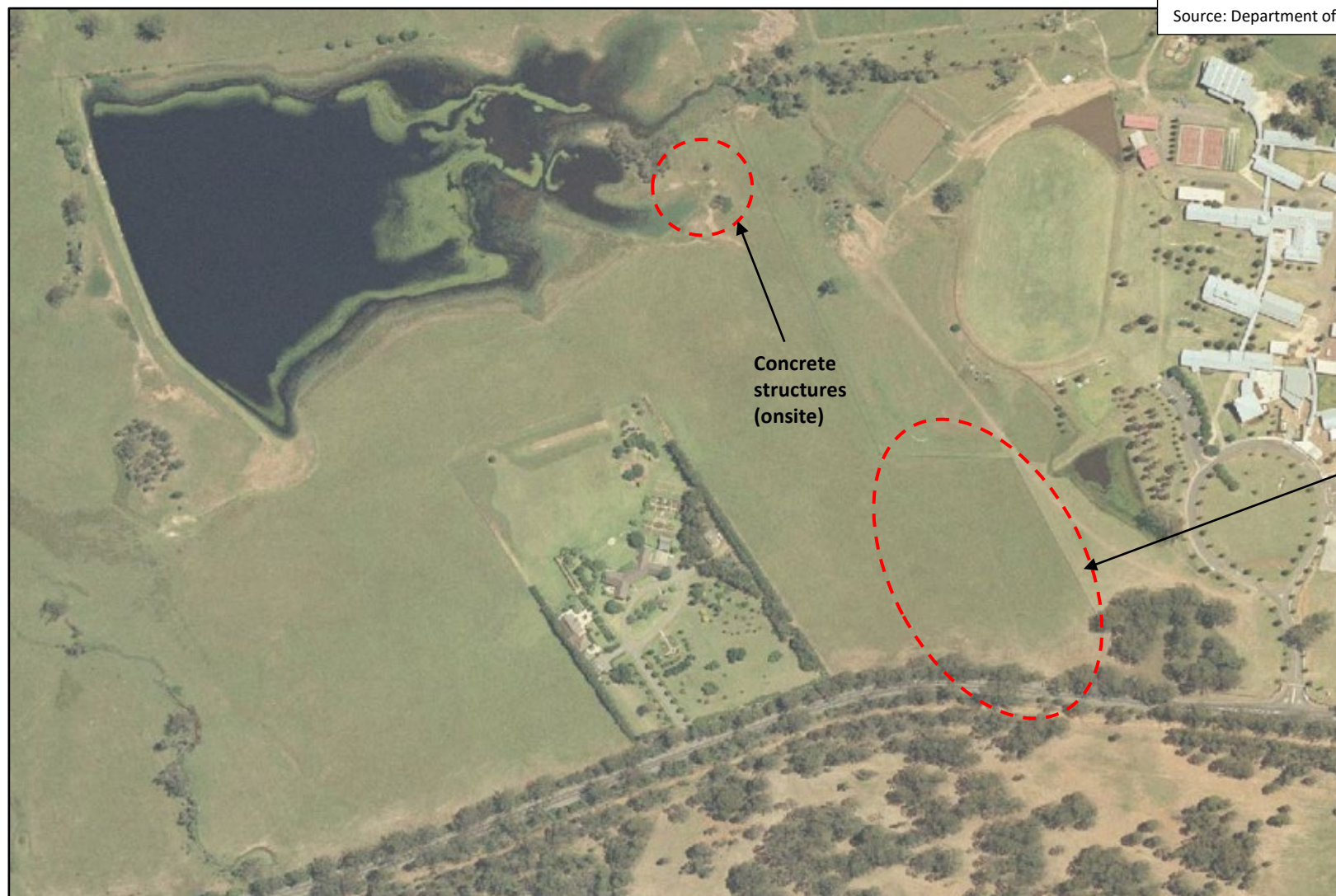


Project #: **SES_631**

Appendix C

Title: **Detailed Phase 2 Site Contamination Assessment**

Address: **531 Cobbitty Road, Cobbitty NSW 2570**



2005

Project #: **SES_631****Appendix C**Title: **Detailed Phase 2 Site Contamination Assessment**Address: **531 Cobbitty Road, Cobbitty NSW 2570**



2009

Source: Nearmap Nov 2009



Project #: **SES_631**

Title: **Detailed Phase 2 Site Contamination Assessment**

Appendix C

Address: **531 Cobbitty Road, Cobbitty NSW 2570**



2019

Project #: **SES_631****Appendix C**Title: **Detailed Phase 2 Site Contamination Assessment**Address: **531 Cobbitty Road, Cobbitty NSW 2570**

Appendix D Site Photographs



Photo 1: NDD location 1 – AEC 1

Photo 2: NDD location 3 – AEC 1



Photo 3: NDD location 5 – AEC 1



Project #:

SES_631

Title:

Detailed Phase 2 Site Contamination Assessment – Site Photographs

Appendix D

Address:

531 Cobbitty Road, Cobbitty NSW 2570



Photo 4: Disused water pipe located along eastern boundary at southern corner – AEC 8



Photo 5: Disused water pipe laying on ground near dam – AEC 8



Photo 6: Disused water pipe not located north of dam along eastern boundary – AEC 8



Photo 7: Pipe laying on ground – AEC 10

Photo 8: Scrap metal waste and trash in farm tip – AEC 11



Photo 9: Buried wastes in farm tip – AEC 11



Photo 10: North concrete structure filled with dumped wastes – AEC 12(N)

Photo 11: South concrete structure filled with dumped wastes, water and vegetation – AEC 12(S)



Appendix E Test Pit Logs

PROJECT NUMBER SES_631	DRILLING DATE 13/12/2021	BORE SIZE 600mm
CLIENT Mirvac Homes (NSW) Pty Ltd	DRILLING COMPANY Ken Coles Excavation P/L	TOTAL DEPTH 0.5m
LOCATION Cobbitty NSW	DRILLING METHOD Backhoe Excavator	LOGGED BY A.S.
PROJECT NAME Detailed Phase 2 Site Contamination Assessment		CHECKED BY S.G.

COMMENTS

Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description	Additional Observations
		TP01_0.0-0.2 (QZ01)				Long grass then TOPSOIL: Silty Clay Loam; low plasticity, dark brown, soft, moist. Minor fine gravels and rootlets	No odours, or staining observed No suspected ACM observed
						CLAY: medium to high plasticity, orange red, firm, moist. Occasional cobble sized gravel.	
0.5						End of test pit at 0.5m	

PROJECT NUMBER SES_631 CLIENT Mirvac Homes (NSW) Pty Ltd LOCATION Cobbitty NSW PROJECT NAME Detailed Phase 2 Site Contamination Assessment	DRILLING DATE 13/12/2021 DRILLING COMPANY Ken Coles Excavation P/L DRILLING METHOD Backhoe Excavator	BORE SIZE 600mm TOTAL DEPTH 0.5m LOGGED BY A.S. CHECKED BY S.G.
---	---	--

COMMENTS						
Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description
		TP02_0.0-0.1				Long grass then TOPSOIL: Silty Loamy Clay; low plasticity, dark brown, soft, moist. Minor fine gravels and rootlets
						CLAY: medium to high plasticity, orange red, firm, moist. Occasional cobble sized gravel.
0.5						End of test pit at 0.5m

ENVIRONMENTAL TEST PIT LOG: TP03

PROJECT NUMBER SES 631

CLIENT Mirvac Homes (NSW) Pty Ltd

LOCATION Cobbitty NSW

PROJECT NAME Detailed Phase 2 Site Contamination Assessment

DRILLING DATE 13/12/2021

DRILLING COMPANY Ken Coles Excavation P/L

DRILLING METHOD Backhoe Excavator

BORE SIZE 600mm

TOTAL DEPTH 0.5m

LOGGED BY A.S.

CHECKED BY S.G.

COMMENTS

[illegible]

PROJECT NUMBER SES_631	DRILLING DATE 13/12/2021	BORE SIZE 600mm
CLIENT Mirvac Homes (NSW) Pty Ltd	DRILLING COMPANY Ken Coles Excavation P/L	TOTAL DEPTH 0.5m
LOCATION Cobbitty NSW	DRILLING METHOD Backhoe Excavator	LOGGED BY A.S.
PROJECT NAME Detailed Phase 2 Site Contamination Assessment		CHECKED BY S.G.

COMMENTS						
Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description
		TP04_0.0-0.1				Long grass then TOPSOIL: Silty Loamy Clay; low plasticity, dark brown, soft, moist. Minor fine gravels and rootlets
						CLAY: medium to high plasticity, orange red, firm, moist. Occasional cobble sized gravel.
0.5						End of test pit at 0.5m

PROJECT NUMBER SES_631	DRILLING DATE 13/12/2021	BORE SIZE 600mm
CLIENT Mirvac Homes (NSW) Pty Ltd	DRILLING COMPANY Ken Coles Excavation P/L	TOTAL DEPTH 0.5m
LOCATION Cobbitty NSW	DRILLING METHOD Backhoe Excavator	LOGGED BY A.S.
PROJECT NAME Detailed Phase 2 Site Contamination Assessment		CHECKED BY S.G.

COMMENTS						
Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description
		TP05_0.0-0.1				Long grass then TOPSOIL: Silty Loamy Clay; low plasticity, dark brown, soft, moist. Minor fine gravels and rootlets
						CLAY: medium to high plasticity, orange light brown, firm, moist. Occasional cobble sized gravel.
0.5						End of test pit at 0.5m

PROJECT NUMBER SES_631	DRILLING DATE 13/12/2021	BORE SIZE 600mm
CLIENT Mirvac Homes (NSW) Pty Ltd	DRILLING COMPANY Ken Coles Excavation P/L	TOTAL DEPTH 0.9m
LOCATION Cobbitty NSW	DRILLING METHOD Backhoe Excavator	LOGGED BY A.S.
PROJECT NAME Detailed Phase 2 Site Contamination Assessment		CHECKED BY S.G.

COMMENTS						
Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description
0.5						Long grass then FILL: Reworked Clay and Silts, brown yellow, hard set, dry. No foreign material observed
		TP06_0.4-0.5				
		TP06_0.7-0.9				CLAY: medium plasticity, orange, stiff, moist.
						End of test pit at 0.9m

PROJECT NUMBER SES_631	DRILLING DATE 13/12/2021	BORE SIZE 600mm
CLIENT Mirvac Homes (NSW) Pty Ltd	DRILLING COMPANY Ken Coles Excavation P/L	TOTAL DEPTH 1.7m
LOCATION Cobbitty NSW	DRILLING METHOD Backhoe Excavator	LOGGED BY A.S.
PROJECT NAME Detailed Phase 2 Site Contamination Assessment		CHECKED BY S.G.

COMMENTS

Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description	Additional Observations
0.5		TP07_0.2-0.3				Long grass then FILL: Reworked Clay and Silts, brown yellow, firm, moist. No foreign material observed	No odours, or staining observed No suspected ACM observed
1		TP07_0.9-1.1					
1.5						CLAY: medium plasticity, orange, stiff, moist.	
						End of test pit at 0.9m	

PROJECT NUMBER SES_631	DRILLING DATE 13/12/2021	BORE SIZE 600mm
CLIENT Mirvac Homes (NSW) Pty Ltd	DRILLING COMPANY Ken Coles Excavation P/L	TOTAL DEPTH 0.9m
LOCATION Cobbitty NSW	DRILLING METHOD Backhoe Excavator	LOGGED BY A.S.
PROJECT NAME Detailed Phase 2 Site Contamination Assessment		CHECKED BY S.G.

COMMENTS

Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description	Additional Observations
0.5						Long grass then FILL: Reworked Clay and Silts, brown yellow, firm, moist. No foreign material observed	No odours, or staining observed No suspected ACM observed
		TP08_0.4-0.5 (QZ02)					
						CLAY: medium plasticity, orange, stiff, moist.	
		TP08_0.8-0.9					
						End of test pit at 0.9m	

PROJECT NUMBER SES_631	DRILLING DATE 13/12/2021	BORE SIZE 600mm
CLIENT Mirvac Homes (NSW) Pty Ltd	DRILLING COMPANY Ken Coles Excavation P/L	TOTAL DEPTH 0.5m
LOCATION Cobbitty NSW	DRILLING METHOD Backhoe Excavator	LOGGED BY A.S.
PROJECT NAME Detailed Phase 2 Site Contamination Assessment		CHECKED BY S.G.

COMMENTS						
Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description
0.5						Long grass then TOPSOIL: Silty Loamy Clay; low plasticity, dark brown, soft, moist. Minor fine gravels and rootlets
						CLAY: medium to high plasticity, orange red, firm, moist. Occasional cobble sized gravel.
0.5						End of test pit at 0.5m

ENVIRONMENTAL TEST PIT LOG: TP10

PROJECT NUMBER SES_631

CLIENT Mirvac Homes (NSW) Pty Ltd

LOCATION Cobbitty NSW

PROJECT NAME Detailed Phase 2 Site Contamination Assessment

DRILLING DATE 13/12/2021

DRILLING COMPANY Ken Coles Excavation P/L

DRILLING METHOD Backhoe Excavator

BORE SIZE 600mm

TOTAL DEPTH 0.5m

LOGGED BY A.S.

CHECKED BY S.G.

COMMENTS

Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description	Additional Observations
						Long grass then TOPSOIL: Silty Loamy Clay; low plasticity, dark brown, soft, moist. Minor fine gravels and rootlets	No odours, or staining observed No suspected ACM observed
		TP10_0.1-0.2				CLAY: medium to high plasticity, orange red, firm, moist. Occasional cobble sized gravel.	
0.5						End of test pit at 0.5m	

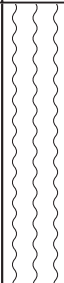
PROJECT NUMBER SES_631	DRILLING DATE 13/12/2021	BORE SIZE 600mm
CLIENT Mirvac Homes (NSW) Pty Ltd	DRILLING COMPANY Ken Coles Excavation P/L	TOTAL DEPTH 0.5m
LOCATION Cobbitty NSW	DRILLING METHOD Backhoe Excavator	LOGGED BY A.S.
PROJECT NAME Detailed Phase 2 Site Contamination Assessment		CHECKED BY S.G.

COMMENTS

Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description	Additional Observations
						Long grass then TOPSOIL: Silty Loamy Clay; low plasticity, dark brown, soft, moist. Minor fine gravels and rootlets	
		TP11_0.1-0.2				Bleached layer, dryer	No odours, or staining observed No suspected ACM observed
						CLAY: medium to high plasticity, orange red, firm, moist. Occasional cobble sized gravel.	
0.5						End of test pit at 0.5m	

PROJECT NUMBER SES_631 CLIENT Mirvac Homes (NSW) Pty Ltd LOCATION Cobbitty NSW PROJECT NAME Detailed Phase 2 Site Contamination Assessment	DRILLING DATE 13/12/2021 DRILLING COMPANY Ken Coles Excavation P/L DRILLING METHOD Backhoe Excavator	BORE SIZE 600mm TOTAL DEPTH 0.5m LOGGED BY A.S. CHECKED BY S.G.
---	---	--

COMMENTS

Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description	Additional Observations
		TP12_0.0-0.2				Long grass then TOPSOIL: Silty Loamy Clay; low plasticity, dark brown, soft, moist. Minor fine gravels and rootlets	No odours, or staining observed No suspected ACM observed
						CLAY: medium to high plasticity, orange red, firm, moist. Occasional cobble sized gravel.	
0.5						End of test pit at 0.5m	

PROJECT NUMBER SES_631	DRILLING DATE 13/12/2021	BORE SIZE 600mm
CLIENT Mirvac Homes (NSW) Pty Ltd	DRILLING COMPANY Ken Coles Excavation P/L	TOTAL DEPTH 0.5m
LOCATION Cobbitty NSW	DRILLING METHOD Backhoe Excavator	LOGGED BY A.S.
PROJECT NAME Detailed Phase 2 Site Contamination Assessment		CHECKED BY S.G.

COMMENTS						
Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description
		TP13_0.0-0.1				Long grass then TOPSOIL: Silty Loamy Clay; low plasticity, dark brown, soft, moist. Minor fine gravels and rootlets
						CLAY: medium to high plasticity, brown yellow (fawn), firm, moist. Occasional cobble sized gravel.
0.5						End of test pit at 0.5m

PROJECT NUMBER SES_631	DRILLING DATE 13/12/2021	BORE SIZE 600mm
CLIENT Mirvac Homes (NSW) Pty Ltd	DRILLING COMPANY Ken Coles Excavation P/L	TOTAL DEPTH 0.5m
LOCATION Cobbitty NSW	DRILLING METHOD Backhoe Excavator	LOGGED BY A.S.
PROJECT NAME Detailed Phase 2 Site Contamination Assessment		CHECKED BY S.G.

COMMENTS

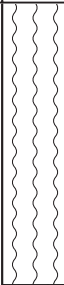
Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description	Additional Observations
		TP14_0.0-0.1				Long grass then TOPSOIL: Silty Loamy Clay; low plasticity, dark brown, soft, moist. Minor fine gravels and rootlets	No odours, or staining observed No suspected ACM observed
						CLAY: medium to high plasticity, fawn, firm, moist.	
0.5						End of test pit at 0.5m	

PROJECT NUMBER SES_631	DRILLING DATE 13/12/2021	BORE SIZE 600mm
CLIENT Mirvac Homes (NSW) Pty Ltd	DRILLING COMPANY Ken Coles Excavation P/L	TOTAL DEPTH 0.5m
LOCATION Cobbitty NSW	DRILLING METHOD Backhoe Excavator	LOGGED BY A.S.
PROJECT NAME Detailed Phase 2 Site Contamination Assessment		CHECKED BY S.G.

COMMENTS						
Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description
		TP15_0.0-0.2 (QZ03)				Long grass then TOPSOIL: Silty Loamy Clay; low plasticity, dark brown, soft, moist. Minor fine gravels and rootlets
						CLAY: medium to high plasticity, fawn, firm, moist.
0.5						End of test pit at 0.5m

PROJECT NUMBER SES_631 CLIENT Mirvac Homes (NSW) Pty Ltd LOCATION Cobbitty NSW PROJECT NAME Detailed Phase 2 Site Contamination Assessment	DRILLING DATE 13/12/2021 DRILLING COMPANY Ken Coles Excavation P/L DRILLING METHOD Backhoe Excavator	BORE SIZE 600mm TOTAL DEPTH 0.5m LOGGED BY A.S. CHECKED BY S.G.
---	---	--

COMMENTS

Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description	Additional Observations
		TP16_0.0-0.2				Long grass then TOPSOIL: Silty Loamy Clay; low plasticity, dark brown, soft, moist. Minor fine gravels and rootlets	No odours, or staining observed No suspected ACM observed
						CLAY: medium to high plasticity, yellow brown fawn, firm, moist.	
0.5						End of test pit at 0.5m	

PROJECT NUMBER SES_631	DRILLING DATE 13/12/2021	BORE SIZE 600mm
CLIENT Mirvac Homes (NSW) Pty Ltd	DRILLING COMPANY Ken Coles Excavation P/L	TOTAL DEPTH 0.5m
LOCATION Cobbitty NSW	DRILLING METHOD Backhoe Excavator	LOGGED BY A.S.
PROJECT NAME Detailed Phase 2 Site Contamination Assessment		CHECKED BY S.G.

COMMENTS						
Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description
		TP17_0.0-0.2				Long grass then TOPSOIL: Silty Loamy Clay; low plasticity, dark brown, soft, moist. Minor fine gravels and rootlets
						CLAY: medium to high plasticity, yellow brown, firm, moist.
0.5						End of test pit at 0.5m

PROJECT NUMBER SES_631 CLIENT Mirvac Homes (NSW) Pty Ltd LOCATION Cobbitty NSW PROJECT NAME Detailed Phase 2 Site Contamination Assessment	DRILLING DATE 13/12/2021 DRILLING COMPANY Ken Coles Excavation P/L DRILLING METHOD Backhoe Excavator	BORE SIZE 600mm TOTAL DEPTH 0.5m LOGGED BY A.S. CHECKED BY S.G.
---	---	--

COMMENTS						
Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description
		TP18_0.0-0.2				Long grass then TOPSOIL: Silty Loamy Clay; low plasticity, dark brown, soft, moist. Minor fine gravels and rootlets
						CLAY: medium to high plasticity, yellow brown, stiff, moist.
0.5						End of test pit at 0.5m

PROJECT NUMBER SES_631	DRILLING DATE 13/12/2021	BORE SIZE 600mm
CLIENT Mirvac Homes (NSW) Pty Ltd	DRILLING COMPANY Ken Coles Excavation P/L	TOTAL DEPTH 0.8m
LOCATION Cobbitty NSW	DRILLING METHOD Backhoe Excavator	LOGGED BY A.S.
PROJECT NAME Detailed Phase 2 Site Contamination Assessment		CHECKED BY S.G.

COMMENTS

Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description	Additional Observations
		TP19_0.0-0.2				Long grass then TOPSOIL (disturbed): Silty Loamy Clay; low plasticity, dark brown, soft, moist. Some gravels and 1x piece of ceramic observed	No odours, or staining observed No suspected ACM observed
0.5						CLAY: medium to high plasticity, yellow brown, stiff, moist.	
						Clayey GRAVEL, coarse wet	Seepage observed at 0.6m
						End of test pit at 0.8m	

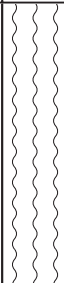
PROJECT NUMBER SES_631	DRILLING DATE 13/12/2021	BORE SIZE 600mm
CLIENT Mirvac Homes (NSW) Pty Ltd	DRILLING COMPANY Ken Coles Excavation P/L	TOTAL DEPTH 0.5m
LOCATION Cobbitty NSW	DRILLING METHOD Backhoe Excavator	LOGGED BY A.S.
PROJECT NAME Detailed Phase 2 Site Contamination Assessment		CHECKED BY S.G.

COMMENTS

Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description	Additional Observations
		TP20_0.0-0.2				Long grass then Soil and crushed rubble layer - Brick, clay pipe, ceramic and ballast gravels observed	No odours, or staining observed No suspected ACM observed
						TOPSOIL (disturbed): Silty Loamy Clay; low plasticity, dark brown, soft, moist. Some gravels.	
						CLAY: medium to high plasticity, yellow brown, stiff, moist.	
0.5						End of test pit at 0.5m	

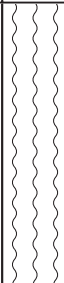
PROJECT NUMBER SES_631	DRILLING DATE 13/12/2021	BORE SIZE 600mm
CLIENT Mirvac Homes (NSW) Pty Ltd	DRILLING COMPANY Ken Coles Excavation P/L	TOTAL DEPTH 0.5m
LOCATION Cobbitty NSW	DRILLING METHOD Backhoe Excavator	LOGGED BY A.S.
PROJECT NAME Detailed Phase 2 Site Contamination Assessment		CHECKED BY S.G.

COMMENTS

Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description	Additional Observations
		TP21_0.0-0.2				TOPSOIL (disturbed): Silty Loamy Clay; low plasticity, dark brown, soft, moist. Some gravels. Some brick and ceramic pieces observed	No odours, or staining observed No suspected ACM observed
						East side of Trench CLAY: medium to high plasticity, yellow brown, stiff, moist.	East side of Trench Disused (not connected) Water pipes observed in trench. 1x4" and 1x2" poly pipe in a mixed clay and gravel matrix Water seepage into pit.
0.5						End of test pit at 0.5m	

PROJECT NUMBER SES_631 CLIENT Mirvac Homes (NSW) Pty Ltd LOCATION Cobbitty NSW PROJECT NAME Detailed Phase 2 Site Contamination Assessment	DRILLING DATE 13/12/2021 DRILLING COMPANY Ken Coles Excavation P/L DRILLING METHOD Backhoe Excavator	BORE SIZE 600mm TOTAL DEPTH 0.5m LOGGED BY A.S. CHECKED BY S.G.
---	---	--

COMMENTS

Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description	Additional Observations
		TP22_0.0-0.2				TOPSOIL: Silty Loamy Clay; low plasticity, dark brown, soft, moist. Some gravels.	No odours, or staining observed No suspected ACM observed
						CLAY: medium to high plasticity, yellow brown, stiff, moist.	
0.5						End of test pit at 0.5m	

PROJECT NUMBER SES_631 CLIENT Mirvac Homes (NSW) Pty Ltd LOCATION Cobbitty NSW PROJECT NAME Detailed Phase 2 Site Contamination Assessment	DRILLING DATE 13/12/2021 DRILLING COMPANY Ken Coles Excavation P/L DRILLING METHOD Backhoe Excavator	BORE SIZE 600mm TOTAL DEPTH 0.6m LOGGED BY A.S. CHECKED BY S.G.
---	---	--

COMMENTS						
Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description
0.5						Grass then FILL: Gravel and fine sand mixture. Large sandstone rock boulders (>10cm diameter) some bitumen gravels
		TP23_0.1-0.3				
						CLAY: medium to high plasticity, yellowy brown, stiff, moist.
						End of test pit at 0.6m

PROJECT NUMBER SES_631 CLIENT Mirvac Homes (NSW) Pty Ltd LOCATION Cobbitty NSW PROJECT NAME Detailed Phase 2 Site Contamination Assessment	DRILLING DATE 13/12/2021 DRILLING COMPANY Ken Coles Excavation P/L DRILLING METHOD Backhoe Excavator	BORE SIZE 600mm TOTAL DEPTH 0.4m LOGGED BY A.S. CHECKED BY S.G.
---	---	--

COMMENTS						
Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description
						Grass then FILL: Gravel and fine sand mixture, some bitumen gravels
		TP24_0.1-0.3				
						CLAY: medium to high plasticity, yellowy brown, stiff, moist over weathered bedrock
0.5						Refusal of test pit at 0.4m

PROJECT NUMBER SES_631 CLIENT Mirvac Homes (NSW) Pty Ltd LOCATION Cobbitty NSW PROJECT NAME Detailed Phase 2 Site Contamination Assessment	DRILLING DATE 13/12/2021 DRILLING COMPANY Ken Coles Excavation P/L DRILLING METHOD Backhoe Excavator	BORE SIZE 600mm TOTAL DEPTH 0.25m LOGGED BY A.S. CHECKED BY S.G.
---	---	---

COMMENTS

Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description	Additional Observations
		TP25_0.0-0.1				Grass then FILL: Gravel and fine sand mixture, some bitumen gravels	No odours, or staining observed No suspected ACM observed
						Thin layer of CLAY then weathered bedrock	
0.5						Refusal of test pit at 0.25m	

PROJECT NUMBER SES_631	DRILLING DATE 13/12/2021	BORE SIZE 600mm
CLIENT Mirvac Homes (NSW) Pty Ltd	DRILLING COMPANY Ken Coles Excavation P/L	TOTAL DEPTH 0.7m
LOCATION Cobbitty NSW	DRILLING METHOD Backhoe Excavator	LOGGED BY A.S.
PROJECT NAME Detailed Phase 2 Site Contamination Assessment		CHECKED BY S.G.

COMMENTS

Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description	Additional Observations
0.5						Grass then FILL: Gravel and fine sand mixture, some boulder sized	Filled Area
		TP26_0.1-0.3					No odours, or staining observed No suspected ACM observed
						CLAY: medium to high plasticity, yellowy brown, stiff, moist.	
						End of test pit at 0.7m	

PROJECT NUMBER SES_631	DRILLING DATE 13/12/2021	BORE SIZE 600mm
CLIENT Mirvac Homes (NSW) Pty Ltd	DRILLING COMPANY Ken Coles Excavation P/L	TOTAL DEPTH 0.6m
LOCATION Cobbitty NSW	DRILLING METHOD Backhoe Excavator	LOGGED BY A.S.
PROJECT NAME Detailed Phase 2 Site Contamination Assessment		CHECKED BY S.G.

COMMENTS

Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description	Additional Observations
0.5						Grass then FILL: Gravelly soil mixture with large boulders (50cm diameter)	No odours, or staining observed No suspected ACM observed
		TP27_0.2-0.4					
						Refusal of test pit at 0.6m	

PROJECT NUMBER SES_631	DRILLING DATE 14/12/2021	BORE SIZE 600mm
CLIENT Mirvac Homes (NSW) Pty Ltd	DRILLING COMPANY Ken Coles Excavation P/L	TOTAL DEPTH 0.5m
LOCATION Cobbitty NSW	DRILLING METHOD Backhoe Excavator	LOGGED BY A.S.
PROJECT NAME Detailed Phase 2 Site Contamination Assessment		CHECKED BY S.G.

COMMENTS

Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description	Additional Observations
						Grass then FILL: Sandy Gravel mixture with recycled rubble - bricks, tiles, concrete and 1 piece of scrap metal	No odours, or staining observed No suspected ACM observed
						CLAY: medium to high plasticity, orange brown, stiff, moist.	
0.5						End of test pit at 0.5m	

PROJECT NUMBER SES_631	DRILLING DATE 14/12/2021	BORE SIZE 600mm
CLIENT Mirvac Homes (NSW) Pty Ltd	DRILLING COMPANY Ken Coles Excavation P/L	TOTAL DEPTH 0.5m
LOCATION Cobbitty NSW	DRILLING METHOD Backhoe Excavator	LOGGED BY A.S.
PROJECT NAME Detailed Phase 2 Site Contamination Assessment		CHECKED BY S.G.

COMMENTS						
Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description
		TP29_0.0-0.1				Grass then TOPSOIL: Silty loamy Clay; low plasticity, dark brown, soft, moist. Minor fine gravels and rootlets
						CLAY: medium to high plasticity, orange red, stiff, moist.
0.5						End of test pit at 0.5m

PROJECT NUMBER SES_631	DRILLING DATE 14/12/2021	BORE SIZE 600mm
CLIENT Mirvac Homes (NSW) Pty Ltd	DRILLING COMPANY Ken Coles Excavation P/L	TOTAL DEPTH 0.4m
LOCATION Cobbitty NSW	DRILLING METHOD Backhoe Excavator	LOGGED BY A.S.
PROJECT NAME Detailed Phase 2 Site Contamination Assessment		CHECKED BY S.G.

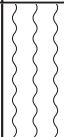
COMMENTS						
Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description
		TP30_0.0-0.1				Grass then TOPSOIL: Silty loamy Clay; low plasticity, dark brown, soft, moist. Minor fine gravels and rootlets
						Thin layer of CLAY on weathered rock
0.5						Refusal of test pit at 0.4m

PROJECT NUMBER SES_631	DRILLING DATE 14/12/2021	BORE SIZE 600mm
CLIENT Mirvac Homes (NSW) Pty Ltd	DRILLING COMPANY Ken Coles Excavation P/L	TOTAL DEPTH 0.7m
LOCATION Cobbitty NSW	DRILLING METHOD Backhoe Excavator	LOGGED BY A.S.
PROJECT NAME Detailed Phase 2 Site Contamination Assessment		CHECKED BY S.G.

COMMENTS						
Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description
		TP31_0.0-0.2				Grass then TOPSOIL: Silty loamy Clay; low plasticity, dark brown, soft, moist. Medium grained gravels and rootlets
0.5						CLAY: medium to high plasticity, red grey mottled, stiff, moist.
						End of test pit at 0.7m

PROJECT NUMBER SES_631 CLIENT Mirvac Homes (NSW) Pty Ltd LOCATION Cobbitty NSW PROJECT NAME Detailed Phase 2 Site Contamination Assessment	DRILLING DATE 14/12/2021 DRILLING COMPANY Ken Coles Excavation P/L DRILLING METHOD Backhoe Excavator	BORE SIZE 600mm TOTAL DEPTH 0.5m LOGGED BY A.S. CHECKED BY S.G.
---	---	--

COMMENTS

Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description	Additional Observations
						Grass then TOPSOIL: Silty loamy Clay; low plasticity, dark brown, soft, moist. Medium grained gravels and rootlets	No odours, or staining observed No suspected ACM observed
		TP32_0.1-0.2				FILL: Roadbase gravels, crushed, 1x PVC pipe and some crushed ceramic pieces	
						CLAY: medium to high plasticity, red, stiff, moist.	
0.5						End of test pit at 0.5m	

PROJECT NUMBER SES_631 CLIENT Mirvac Homes (NSW) Pty Ltd LOCATION Cobbitty NSW PROJECT NAME Detailed Phase 2 Site Contamination Assessment	DRILLING DATE 14/12/2021 DRILLING COMPANY Ken Coles Excavation P/L DRILLING METHOD Backhoe Excavator	BORE SIZE 600mm TOTAL DEPTH 0.5m LOGGED BY A.S. CHECKED BY S.G.
---	---	--

COMMENTS						
Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description
0.5						Bitumen layer
		TP33_0.1-0.2 (QZ04)				FILL: Roadbase gravels, crushed, some ballast and large boulders
						CLAY: medium to high plasticity, yellow brown, stiff, moist.
						End of test pit at 0.5m

PROJECT NUMBER SES_631	DRILLING DATE 14/12/2021	BORE SIZE 600mm
CLIENT Mirvac Homes (NSW) Pty Ltd	DRILLING COMPANY Ken Coles Excavation P/L	TOTAL DEPTH 0.5m
LOCATION Cobbitty NSW	DRILLING METHOD Backhoe Excavator	LOGGED BY A.S.
PROJECT NAME Detailed Phase 2 Site Contamination Assessment		CHECKED BY S.G.

COMMENTS						
Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description
		TP34_0.0-0.1				TOPSOIL (disturbed): Silty loamy Clay; low plasticity, dark brown, with crushed rock pieces, soft, moist.
						CLAY: medium to high plasticity, red orange, stiff, moist.
0.5						End of test pit at 0.5m

PROJECT NUMBER SES_631	DRILLING DATE 14/12/2021	BORE SIZE 600mm
CLIENT Mirvac Homes (NSW) Pty Ltd	DRILLING COMPANY Ken Coles Excavation P/L	TOTAL DEPTH 0.5m
LOCATION Cobbitty NSW	DRILLING METHOD Backhoe Excavator	LOGGED BY A.S.
PROJECT NAME Detailed Phase 2 Site Contamination Assessment		CHECKED BY S.G.

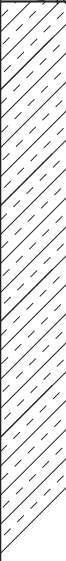
COMMENTS

Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description	Additional Observations
						TOPSOIL (disturbed): Silty loamy Clay; low plasticity, dark brown, with crushed rock pieces, soft, moist.	No odours, or staining observed No suspected ACM observed
		TP35_0.2-0.3				FILL: Clay with minor gravels (reworked natural?) moist-sticky.	Larger gravels observed in test pit wall
						CLAY: medium to high plasticity, red orange, stiff, moist.	
0.5						End of test pit at 0.5m	

PROJECT NUMBER SES_631	DRILLING DATE 14/12/2021	BORE SIZE 600mm
CLIENT Mirvac Homes (NSW) Pty Ltd	DRILLING COMPANY Ken Coles Excavation P/L	TOTAL DEPTH 0.5m
LOCATION Cobbitty NSW	DRILLING METHOD Backhoe Excavator	LOGGED BY A.S.
PROJECT NAME Detailed Phase 2 Site Contamination Assessment		CHECKED BY S.G.

COMMENTS						
Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description
		TP36_0.0-0.1				TOPSOIL: Silty loamy Clay; low plasticity, dark brown, soft, moist.
						CLAY: medium to high plasticity, red orange, stiff, moist.
0.5						End of test pit at 0.5m

PROJECT NUMBER SES_631	DRILLING DATE 14/12/2021	BORE SIZE 600mm
CLIENT Mirvac Homes (NSW) Pty Ltd	DRILLING COMPANY Ken Coles Excavation P/L	TOTAL DEPTH 0.8m
LOCATION Cobbitty NSW	DRILLING METHOD Backhoe Excavator	LOGGED BY A.S.
PROJECT NAME Detailed Phase 2 Site Contamination Assessment		CHECKED BY S.G.

COMMENTS						
Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description
		TP37_0.0-0.2				Grass then TOPSOIL: Silty loamy Clay; low plasticity, dark brown, soft, moist.
						Bleached layer of coarse gravels and fines, black nodules (Fe-Mn) prominent, wet
0.5						CLAY: medium to high plasticity, yellow with some grey mottling and orange hues, stiff, moist.
						End of test pit at 0.8m

PROJECT NUMBER SES_631	DRILLING DATE 14/12/2021	BORE SIZE 600mm
CLIENT Mirvac Homes (NSW) Pty Ltd	DRILLING COMPANY Ken Coles Excavation P/L	TOTAL DEPTH 0.5m
LOCATION Cobbitty NSW	DRILLING METHOD Backhoe Excavator	LOGGED BY A.S.
PROJECT NAME Detailed Phase 2 Site Contamination Assessment		CHECKED BY S.G.

COMMENTS

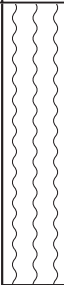
Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description	Additional Observations
						FILL: Clay and gravel mixture, firm, moist.	No odours, or staining observed Waste observed on ground at edge of concrete wall foundation. F01 collected from waste inside pit
		TP38_0.1-0.3 F01					
						CLAY: medium to high plasticity, light brown, stiff, moist.	
0.5						End of test pit at 0.5m	

PROJECT NUMBER SES_631	DRILLING DATE 14/12/2021	BORE SIZE 600mm
CLIENT Mirvac Homes (NSW) Pty Ltd	DRILLING COMPANY Ken Coles Excavation P/L	TOTAL DEPTH 0.6m
LOCATION Cobbitty NSW	DRILLING METHOD Backhoe Excavator	LOGGED BY A.S.
PROJECT NAME Detailed Phase 2 Site Contamination Assessment		CHECKED BY S.G.

COMMENTS						
Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description
		TP39_0.0-0.2				TOPSOIL: Silty Loamy Clay, low plasticity, dark brown, firm, moist.
0.5						CLAY: medium to high plasticity, light brown, stiff, moist.
						End of test pit at 0.6m

PROJECT NUMBER SES_631 CLIENT Mirvac Homes (NSW) Pty Ltd LOCATION Cobbitty NSW PROJECT NAME Detailed Phase 2 Site Contamination Assessment	DRILLING DATE 14/12/2021 DRILLING COMPANY Ken Coles Excavation P/L DRILLING METHOD Backhoe Excavator	BORE SIZE 600mm TOTAL DEPTH 0.6m LOGGED BY A.S. CHECKED BY S.G.
---	---	--

COMMENTS

Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description	Additional Observations
0.5		TP40_0.0-0.1				TOPSOIL: Silty Loamy Clay, low plasticity, dark brown, firm, moist.	No odours, or staining observed No waste or foreign materials observed on ground at edge of concrete wall foundation.
						CLAY: medium to high plasticity, light brown, stiff, moist.	
						End of test pit at 0.6m	

PROJECT NUMBER SES_631 CLIENT Mirvac Homes (NSW) Pty Ltd LOCATION Cobbitty NSW PROJECT NAME Detailed Phase 2 Site Contamination Assessment	DRILLING DATE 14/12/2021 DRILLING COMPANY Ken Coles Excavation P/L DRILLING METHOD Backhoe Excavator	BORE SIZE 600mm TOTAL DEPTH 0.5m LOGGED BY A.S. CHECKED BY S.G.
---	---	--

COMMENTS						
Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description
0.5						TOPSOIL: Silty Loamy Clay, low plasticity, dark brown, firm, wet.
						CLAY: medium to high plasticity, light brown, stiff, moist.
						End of test pit at 0.5m

PROJECT NUMBER SES_631	DRILLING DATE 14/12/2021	BORE SIZE 600mm
CLIENT Mirvac Homes (NSW) Pty Ltd	DRILLING COMPANY Ken Coles Excavation P/L	TOTAL DEPTH 0.8m
LOCATION Cobbitty NSW	DRILLING METHOD Backhoe Excavator	LOGGED BY A.S.
PROJECT NAME Detailed Phase 2 Site Contamination Assessment		CHECKED BY S.G.

COMMENTS						
Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description
0.5						FILL: Roadbase gravels and fines, large cobbles.
						FILL/TOPSOIL (disturbed) mixture with gravels and bitumen
		TP42_0.2-0.4 (QZ05)				Grading to TOPSOIL: Silty Loamy Clay, low plasticity, dark brown, firm, wet.
						CLAY: medium to high plasticity, light brown, stiff, moist.
						End of test pit at 0.8m

ENVIRONMENTAL TEST PIT LOG: TP43

PROJECT NUMBER SES_631

CLIENT Mirvac Homes (NSW) Pty Ltd

LOCATION Cobbitty NSW

PROJECT NAME Detailed Phase 2 Site Contamination Assessment

DRILLING DATE 14/12/2021

DRILLING COMPANY Ken Coles Excavation P/L

DRILLING METHOD Backhoe Excavator

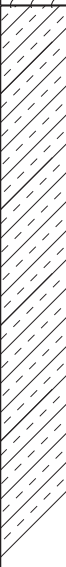
BORE SIZE 600mm

TOTAL DEPTH 0.8m

LOGGED BY A.S.

CHECKED BY S.G.

COMMENTS

Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description	Additional Observations
0.5						FILL/TOPSOIL (disturbed) mixture with rubble including brick and concrete material	Edge of concrete
		TP43_0.1-0.2					No odours, or staining observed No waste or foreign materials observed No suspected ACM observed
						Grading to TOPSOIL: Silty Loamy Clay, low plasticity, dark brown, firm, wet.	
						CLAY: medium to high plasticity, light brown, stiff, moist.	
						End of test pit at 0.8m	

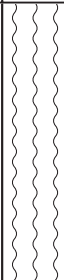
PROJECT NUMBER SES_631 CLIENT Mirvac Homes (NSW) Pty Ltd LOCATION Cobbitty NSW PROJECT NAME Detailed Phase 2 Site Contamination Assessment	DRILLING DATE 14/12/2021 DRILLING COMPANY Ken Coles Excavation P/L DRILLING METHOD Backhoe Excavator	BORE SIZE 600mm TOTAL DEPTH 0.6m LOGGED BY A.S. CHECKED BY S.G.
---	---	--

COMMENTS

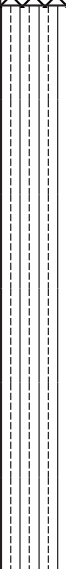
Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description	Additional Observations
0.5		TP44_0.0-0.2				FILL/TOPSOIL (disturbed) mixture with gravel, sand and charcoal	No odours, or staining observed No waste or foreign materials observed No suspected ACM observed
						Grading to TOPSOIL: Silty Loamy Clay, low plasticity, dark brown, firm, moist. Higher clay content observe	
						CLAY: medium to high plasticity, light brown, stiff, moist.	
						End of test pit at 0.6m	

PROJECT NUMBER SES_631 CLIENT Mirvac Homes (NSW) Pty Ltd LOCATION Cobbitty NSW PROJECT NAME Detailed Phase 2 Site Contamination Assessment	DRILLING DATE 14/12/2021 DRILLING COMPANY Ken Coles Excavation P/L DRILLING METHOD Backhoe Excavator	BORE SIZE 600mm TOTAL DEPTH 0.5m LOGGED BY A.S. CHECKED BY S.G.
---	---	--

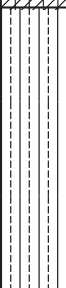
COMMENTS

Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description	Additional Observations
		TP45_0.0-0.2				TOPSOIL (slightly disturbed): Silty Loamy Clay, low plasticity, dark brown, firm, moist.	No odours, or staining observed No waste or foreign materials observed No suspected ACM observed
						CLAY: medium to high plasticity, light brown, stiff, moist.	
0.5						End of test pit at 0.5m	

PROJECT NUMBER SES_631 CLIENT Mirvac Homes (NSW) Pty Ltd LOCATION Cobbitty NSW PROJECT NAME Detailed Phase 2 Site Contamination Assessment	DRILLING DATE 14/12/2021 DRILLING COMPANY Ken Coles Excavation P/L DRILLING METHOD Backhoe Excavator	BORE SIZE 600mm TOTAL DEPTH 0.8m LOGGED BY A.S. CHECKED BY S.G.
---	---	--

COMMENTS							
Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description	Additional Observations
0.5						FILL: Gravelly Clay, predominantly brown with varying colours, gravels present, firm, moist. (reworked natural?)	No odours, or staining observed No suspected ACM observed
		TP46_0.1-0.3					
							CLAY: low to medium plasticity, red brown, some gravels, firm, moist.
						End of test pit at 0.8m	

PROJECT NUMBER SES_631 CLIENT Mirvac Homes (NSW) Pty Ltd LOCATION Cobbitty NSW PROJECT NAME Detailed Phase 2 Site Contamination Assessment	DRILLING DATE 15/12/2021 DRILLING COMPANY Ken Coles Excavation P/L DRILLING METHOD Backhoe Excavator	BORE SIZE 600mm TOTAL DEPTH 0.6m LOGGED BY A.S. CHECKED BY S.G.
---	---	--

COMMENTS						
Depth (m)	PID	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0.5		TP47_0.0-0.1			FILL: Silty Clay (surface filling) with bricks and other crushed material e.g. tiles	No odours, or staining observed No suspected ACM observed
					Silty CLAY: low plasticity, brown and grey with some gravel, firm, moist	
					CLAY: low to medium plasticity, yellow brown, some gravels, firm, moist.	
					End of test pit at 0.6m	

PROJECT NUMBER SES_631 CLIENT Mirvac Homes (NSW) Pty Ltd LOCATION Cobbitty NSW PROJECT NAME Detailed Phase 2 Site Contamination Assessment	DRILLING DATE 15/12/2021 DRILLING COMPANY Ken Coles Excavation P/L DRILLING METHOD Backhoe Excavator	BORE SIZE 600mm TOTAL DEPTH 0.8m LOGGED BY A.S. CHECKED BY S.G.
---	---	--

COMMENTS

Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description	Additional Observations
		TP48_0.0-0.1				FILL: Silty Clay (surface filling) with brick and other crushed material e.g. tiles	No odours observed No suspected ACM observed
						Silty CLAY: low plasticity, brown and grey with some gravel, firm, moist. Old burnt tree stump observed, black staining in surrounding soils.	
0.5						CLAY: low to medium plasticity, yellow brown, some gravels, firm, moist.	
						End of test pit at 0.8m	Water seepage in base of pit at 0.7m

PROJECT NUMBER SES_631 CLIENT Mirvac Homes (NSW) Pty Ltd LOCATION Cobbitty NSW PROJECT NAME Detailed Phase 2 Site Contamination Assessment	DRILLING DATE 15/12/2021 DRILLING COMPANY Ken Coles Excavation P/L DRILLING METHOD Backhoe Excavator	BORE SIZE 600mm TOTAL DEPTH 0.6m LOGGED BY A.S. CHECKED BY S.G.
---	---	--

COMMENTS

Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description	Additional Observations
0.5		TP49_0.0-0.2 F02 F03				Grass then FILL: Ash and cinder waste, glass, shells, gravels, black. Potential ACM sheeting, old tyre.	No odours or staining observed Suspected ACM observed
		TP49_0.4-0.5 (QZ06)					
						CLAY: medium plasticity, brown, firm, moist.	
						End of test pit at 0.6m	

PROJECT NUMBER SES_631	DRILLING DATE 15/12/2021	BORE SIZE 600mm
CLIENT Mirvac Homes (NSW) Pty Ltd	DRILLING COMPANY Ken Coles Excavation P/L	TOTAL DEPTH 0.3m
LOCATION Cobbitty NSW	DRILLING METHOD Backhoe Excavator	LOGGED BY A.S.
PROJECT NAME Detailed Phase 2 Site Contamination Assessment		CHECKED BY S.G.

COMMENTS

Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description	Additional Observations
		F04				Grass then FILL: Asbestos waste fill with broken tiles, bricks and scrap metal pieces	No soil sample collected
0.5						End of test pit at 0.3m	

PROJECT NUMBER SES_631	DRILLING DATE 15/12/2021	BORE SIZE 600mm
CLIENT Mirvac Homes (NSW) Pty Ltd	DRILLING COMPANY Ken Coles Excavation P/L	TOTAL DEPTH 0.5m
LOCATION Cobbitty NSW	DRILLING METHOD Backhoe Excavator	LOGGED BY A.S.
PROJECT NAME Detailed Phase 2 Site Contamination Assessment		CHECKED BY S.G.

COMMENTS

Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description	Additional Observations
		TP51_0.0-0.2				Grass then TOPSOIL: Silty loamy Clay; low plasticity, dark brown, soft, moist.	No odours or staining observed No Suspected ACM observed
						CLAY: medium plasticity, brown, firm, moist.	
0.5						End of test pit at 0.5m	

PROJECT NUMBER SES_631	DRILLING DATE 15/12/2021	BORE SIZE 600mm
CLIENT Mirvac Homes (NSW) Pty Ltd	DRILLING COMPANY Ken Coles Excavation P/L	TOTAL DEPTH 0.4m
LOCATION Cobbitty NSW	DRILLING METHOD Backhoe Excavator	LOGGED BY A.S.
PROJECT NAME Detailed Phase 2 Site Contamination Assessment		CHECKED BY S.G.

COMMENTS

Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description	Additional Observations
		TP52_0.0-0.1				Grass then Silty CLAY (reworked?): low plasticity, brown, becoming more clay with depth, moist. Small bone observed	No odours or staining observed No Suspected ACM observed
0.5						End of test pit at 0.4m	

PROJECT NUMBER SES_631	DRILLING DATE 15/12/2021	BORE SIZE 600mm
CLIENT Mirvac Homes (NSW) Pty Ltd	DRILLING COMPANY Ken Coles Excavation P/L	TOTAL DEPTH 0.5m
LOCATION Cobbitty NSW	DRILLING METHOD Backhoe Excavator	LOGGED BY A.S.
PROJECT NAME Detailed Phase 2 Site Contamination Assessment		CHECKED BY S.G.

COMMENTS

Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description	Additional Observations
		TP53_0.0-0.2				Grass then Silty CLAY (reworked?): low plasticity, brown, becoming more clay with depth, moist.	No odours or staining observed No Suspected ACM observed
0.5						End of test pit at 0.5m	

PROJECT NUMBER SES_631	DRILLING DATE 15/12/2021	BORE SIZE 600mm
CLIENT Mirvac Homes (NSW) Pty Ltd	DRILLING COMPANY Ken Coles Excavation P/L	TOTAL DEPTH 0.5m
LOCATION Cobbitty NSW	DRILLING METHOD Backhoe Excavator	LOGGED BY A.S.
PROJECT NAME Detailed Phase 2 Site Contamination Assessment		CHECKED BY S.G.

COMMENTS

Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description	Additional Observations
		TP54_0.0-0.2				Grass then Silty CLAY (reworked?): low plasticity, brown, becoming more clay with depth, moist.	No odours or staining observed No Suspected ACM observed
0.5						End of test pit at 0.5m	

PROJECT NUMBER SES_631	DRILLING DATE 17/12/2021	BORE SIZE 100mm
CLIENT Mirvac Homes (NSW) Pty Ltd	DRILLING METHOD Hand Auger	TOTAL DEPTH 0.5m
LOCATION Cobbitty NSW	DRILLING COMPANY Compliance Monitoring	LOGGED BY C.B.
PROJECT NAME Detailed Phase 2 Site Contamination Assessment	Services	CHECKED BY S.G.

COMMENTS

Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description	Additional Observations
						Grass then Silty SAND: black, fine to medium grained with fine silts, organic, dense and slightly moist.	No odours or staining observed No Suspected ACM observed
0.5		PP1					
						End of borehole log at 0.5m	

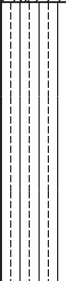
PROJECT NUMBER SES_631	DRILLING DATE 17/12/2021	BORE SIZE 100mm
CLIENT Mirvac Homes (NSW) Pty Ltd	DRILLING METHOD Hand Auger	TOTAL DEPTH 0.5m
LOCATION Cobbitty NSW	DRILLING COMPANY Compliance Monitoring	LOGGED BY C.B.
PROJECT NAME Detailed Phase 2 Site Contamination Assessment	Services	CHECKED BY S.G.

COMMENTS

Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description	Additional Observations
						Grass then Silty CLAY: brown, non plastic, fine silts, firm and slightly moist	No odours or staining observed No Suspected ACM observed
0.5		PP2				End of borehole log at 0.5m	

PROJECT NUMBER SES_631	DRILLING DATE 17/12/2021	BORE SIZE 100mm
CLIENT Mirvac Homes (NSW) Pty Ltd	DRILLING METHOD Hand Auger	TOTAL DEPTH 0.5m
LOCATION Cobbitty NSW	DRILLING COMPANY Compliance Monitoring	LOGGED BY C.B.
PROJECT NAME Detailed Phase 2 Site Contamination Assessment	Services	CHECKED BY S.G.

COMMENTS

Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description	Additional Observations
0.5						Grass then Clayey SILT: dark brown, non plastic, fine silts, organic, dense and slightly moist	No odours or staining observed No Suspected ACM observed
		PP4 (QZ8)				Silty CLAY: dark brown, low plastic, fine silts, organic, stiff and slightly moist	
						End of borehole log at 0.5m	

PROJECT NUMBER SES_631	DRILLING DATE 17/12/2021	BORE SIZE 100mm
CLIENT Mirvac Homes (NSW) Pty Ltd	DRILLING METHOD Hand Auger	TOTAL DEPTH 0.5m
LOCATION Cobbitty NSW	DRILLING COMPANY Compliance Monitoring	LOGGED BY C.B.
PROJECT NAME Detailed Phase 2 Site Contamination Assessment	Services	CHECKED BY S.G.

COMMENTS

Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description	Additional Observations
						Grass then Silty CLAY: brown red, non-plastic, stiff and slightly moist	No odours or staining observed No Suspected ACM observed
						Silty CLAY: red brown, non-plastic, stiff and slightly moist	
		PP5					
0.5						End of borehole log at 0.5m	

PROJECT NUMBER SES_631	DRILLING DATE 17/12/2021	BORE SIZE 100mm
CLIENT Mirvac Homes (NSW) Pty Ltd	DRILLING METHOD Hand Auger	TOTAL DEPTH 0.5m
LOCATION Cobbitty NSW	DRILLING COMPANY Compliance Monitoring	LOGGED BY C.B.
PROJECT NAME Detailed Phase 2 Site Contamination Assessment	Services	CHECKED BY S.G.

COMMENTS

Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description	Additional Observations
						Grass then Clayey SILT: dark brown, low plasticity, fine silts, dense and slightly moist	No odours or staining observed
						Silty CLAY: red brown mottled, plastic, occasional flat/angular ironstone gravels (20mm) stiff and slightly moist	No Suspected ACM observed
		PP7 (QZ07)				Silty CLAY: red brown with pale grey mottles, plastic, stiff and slightly moist	
0.5						End of borehole log at 0.5m	

PROJECT NUMBER SES_631	DRILLING DATE 17/12/2021	BORE SIZE 100mm
CLIENT Mirvac Homes (NSW) Pty Ltd	DRILLING METHOD Hand Auger	TOTAL DEPTH 0.5m
LOCATION Cobbitty NSW	DRILLING COMPANY Compliance Monitoring	LOGGED BY C.B.
PROJECT NAME Detailed Phase 2 Site Contamination Assessment	Services	CHECKED BY S.G.

COMMENTS

Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description	Additional Observations
0.5						Grass then Clayey SILT: dark brown, non-plastic, organic, fine silts, dense and slightly moist	No odours or staining observed No Suspected ACM observed
						Silty CLAY: orange brown mottled, low plasticity, stiff and slightly moist	
		PP8				Silty CLAY: red brown with pale grey mottles, plastic, stiff and slightly moist	
						End of borehole log at 0.5m	

PROJECT NUMBER SES_631	DRILLING DATE 17/12/2021	BORE SIZE 100mm
CLIENT Mirvac Homes (NSW) Pty Ltd	DRILLING METHOD Hand Auger	TOTAL DEPTH 0.5m
LOCATION Cobbitty NSW	DRILLING COMPANY Compliance Monitoring	LOGGED BY C.B.
PROJECT NAME Detailed Phase 2 Site Contamination Assessment	Services	CHECKED BY S.G.

COMMENTS

Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description	Additional Observations
						Grass then FILL: Silty Gravelly Clay; brown, non-plastic, angular gravels (10mm), firm and moist	No odours or staining observed No Suspected ACM observed
0.5		PP9					
						End of borehole log at 0.5m	

PROJECT NUMBER SES_631	DRILLING DATE 17/12/2021	BORE SIZE 100mm
CLIENT Mirvac Homes (NSW) Pty Ltd	DRILLING METHOD Hand Auger	TOTAL DEPTH 0.5m
LOCATION Cobbitty NSW	DRILLING COMPANY Compliance Monitoring	LOGGED BY C.B.
PROJECT NAME Detailed Phase 2 Site Contamination Assessment	Services	CHECKED BY S.G.

COMMENTS

Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description	Additional Observations
						Grass then FILL: Silty Gravelly Clay; brown, non-plastic, angular gravels (10mm), firm and slightly moist	No odours or staining observed No Suspected ACM observed
0.5		PP10					
						End of borehole log at 0.5m	

PROJECT NUMBER SES_631	DRILLING DATE 17/12/2021	BORE SIZE 100mm
CLIENT Mirvac Homes (NSW) Pty Ltd	DRILLING METHOD Hand Auger	TOTAL DEPTH 0.5m
LOCATION Cobbitty NSW	DRILLING COMPANY Compliance Monitoring	LOGGED BY C.B.
PROJECT NAME Detailed Phase 2 Site Contamination Assessment	Services	CHECKED BY S.G.

COMMENTS

Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description	Additional Observations
0.5						Grass then FILL: Sandy Gravelly Clay; brown, some plastic clays, medium to fine grained sands, assorted gravels (to 15mm), stiff/compacted.	No odours or staining observed No Suspected ACM observed
						FILL: Silty Clay; brown, non-plastic, fine silts, stiff/compacted	
		PP11				Silty CLAY; orange brown, non-plastic, fine silts, stiff/compacted and moist	
						End of borehole log at 0.5m	

PROJECT NUMBER SES_631	DRILLING DATE 17/12/2021	BORE SIZE 100mm
CLIENT Mirvac Homes (NSW) Pty Ltd	DRILLING METHOD Hand Auger	TOTAL DEPTH 0.5m
LOCATION Cobbitty NSW	DRILLING COMPANY Compliance Monitoring	LOGGED BY C.B.
PROJECT NAME Detailed Phase 2 Site Contamination Assessment	Services	CHECKED BY S.G.

COMMENTS

Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description	Additional Observations
						Grass then FILL: Gravelly Silty Clay; red brown, non-plastic, angular gravels (5mm), stiff.	No odours or staining observed
						FILL: Silty Clay; red brown, non-plastic, fine silts, stiff and slightly moist	No Suspected ACM observed
0.5		PP12					
						End of borehole log at 0.5m	

PROJECT NUMBER SES_631	DRILLING DATE 17/12/2021	BORE SIZE 100mm
CLIENT Mirvac Homes (NSW) Pty Ltd	DRILLING METHOD Hand Auger	TOTAL DEPTH 0.5m
LOCATION Cobbitty NSW	DRILLING COMPANY Compliance Monitoring	LOGGED BY C.B.
PROJECT NAME Detailed Phase 2 Site Contamination Assessment	Services	CHECKED BY S.G.

COMMENTS

Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description	Additional Observations
						Grass then FILL: Gravelly Silty Clay; red brown, non-plastic, angular gravels (5mm), stiff.	No odours or staining observed
						Silty CLAY; pale red grey mottled, high plasticity, fine silts, stiff and slightly moist	No Suspected ACM observed
0.5		PP13					
						End of borehole log at 0.5m	

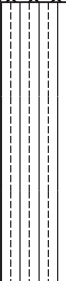
PROJECT NUMBER SES_631	DRILLING DATE 17/12/2021	BORE SIZE 100mm
CLIENT Mirvac Homes (NSW) Pty Ltd	DRILLING METHOD Hand Auger	TOTAL DEPTH 0.5m
LOCATION Cobbitty NSW	DRILLING COMPANY Compliance Monitoring	LOGGED BY C.B.
PROJECT NAME Detailed Phase 2 Site Contamination Assessment	Services	CHECKED BY S.G.

COMMENTS

Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description	Additional Observations
						Grass then FILL: Gravelly Silty Clay; red brown, non-plastic, angular gravels (5mm), stiff.	No odours or staining observed No Suspected ACM observed
		PP14				Silty CLAY; pale red grey mottled, high plasticity, fine silts, stiff and slightly moist	
0.5						End of borehole log at 0.5m	

PROJECT NUMBER SES_631	DRILLING DATE 17/12/2021	BORE SIZE 100mm
CLIENT Mirvac Homes (NSW) Pty Ltd	DRILLING METHOD Hand Auger	TOTAL DEPTH 0.5m
LOCATION Cobbitty NSW	DRILLING COMPANY Compliance Monitoring	LOGGED BY C.B.
PROJECT NAME Detailed Phase 2 Site Contamination Assessment	Services	CHECKED BY S.G.

COMMENTS

Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description	Additional Observations
0.5						Grass then FILL: Clayey Gravelly Silt; light brown, non-plastic, angular gravels (50mm), dense and slightly moist.	No odours or staining observed
		PP15				Silty CLAY; red brown, non-plastic, fine silts, stiff and slightly moist	No Suspected ACM observed
						End of borehole log at 0.5m	

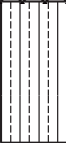
PROJECT NUMBER SES_631	DRILLING DATE 17/12/2021	BORE SIZE 100mm
CLIENT Mirvac Homes (NSW) Pty Ltd	DRILLING METHOD Hand Auger	TOTAL DEPTH 0.5m
LOCATION Cobbitty NSW	DRILLING COMPANY Compliance Monitoring	LOGGED BY C.B.
PROJECT NAME Detailed Phase 2 Site Contamination Assessment	Services	CHECKED BY S.G.

COMMENTS

Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description	Additional Observations
						Silty CLAY; brown, non-plastic, fine silts, stiff and slightly moist	No odours or staining observed No Suspected ACM observed
0.5		PP16					
						End of borehole log at 0.5m	

PROJECT NUMBER SES_631	DRILLING DATE 17/12/2021	BORE SIZE 100mm
CLIENT Mirvac Homes (NSW) Pty Ltd	DRILLING METHOD Hand Auger	TOTAL DEPTH 0.5m
LOCATION Cobbitty NSW	DRILLING COMPANY Compliance Monitoring	LOGGED BY C.B.
PROJECT NAME Detailed Phase 2 Site Contamination Assessment	Services	CHECKED BY S.G.

COMMENTS

Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description	Additional Observations
						Grass then FILL: Silty Gravelly Clay; pale brown, non-plastic, angular gravels (5mm), stiff and slightly moist.	No odours or staining observed No Suspected ACM observed
		PP17				Silty CLAY; red brown, slightly plastic, fine silts, stiff and slightly moist	
0.5						End of borehole log at 0.5m	

PROJECT NUMBER SES_631	DRILLING DATE 17/12/2021	BORE SIZE 100mm
CLIENT Mirvac Homes (NSW) Pty Ltd	DRILLING METHOD Hand Auger	TOTAL DEPTH 0.5m
LOCATION Cobbitty NSW	DRILLING COMPANY Compliance Monitoring	LOGGED BY C.B.
PROJECT NAME Detailed Phase 2 Site Contamination Assessment	Services	CHECKED BY S.G.

COMMENTS

Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description	Additional Observations
						Grass then FILL: Silty Gravelly Clay; pale brown, non-plastic, angular gravels (5mm), stiff and slightly moist.	No odours or staining observed No Suspected ACM observed
		PP18 (QZ09)				Silty CLAY; red brown, slightly plastic, fine silts, stiff and slightly moist	
0.5						End of borehole log at 0.5m	

ENVIRONMENTAL TEST PIT LOG: PP19

PROJECT NUMBER SES 631

CLIENT Mirvac Homes (NSW) Pty Ltd

LOCATION Cobbitty NSW

PROJECT NAME Detailed Phase 2 Site Contamination Assessment

DRILLING DATE 17/12/2021

DRILLING METHOD Hand Auger

DRILLING COMPANY Compliance Monitoring
Services

BORE SIZE 100mm

TOTAL DEPTH 0.5m

LOGGED BY C.B.

CHECKED BY S.G.

COMMENTS

Depth (m)	PID	Samples	Is Analysed?	Graphic Log	USCS	Material Description	Additional Observations
0.5						Grass then Silty CLAY; brown, non-plastic, fine silts, firm and slightly moist	No odours or staining observed No Suspected ACM observed
		PP19					
						End of borehole log at 0.5m	

Appendix F Laboratory Analytical Certificates

CLIENT DETAILS

Contact ADAM SULLIVAN
Client SULLIVAN ENVIRONMENTAL SCIENCES PTY. LIMITED
Address PO BOX 5248
TURRAMURRA NSW 2074

Telephone (Not specified)
Facsimile (Not specified)
Email ENQUIRIES@SULLIVAN-ES.COM.AU
Project **SES_631 Cobbilty**
Order Number **SES_631**
Samples 68

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 **SE227223 R0**
Date Received 16/12/2021
Date Reported 23/12/2021

COMMENTS

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

No respirable fibres detected in all soil samples using trace analysis technique.

Sample # 13 : A portion of the sample supplied has been sub-sampled for asbestos analysis in soil according to SGS In-house procedures. We therefore cannot guarantee that the sub-sample is representative of the entire sample supplied. SGS Industries and Environment recommends supplying approximately 50-100g of sample in a separate container.

Samples # 64-65 : No trace asbestos fibres detected using trace analysis technique.

Asbestos analysed by Approved Identifiers Yusuf Kuthupudin and Ravee Sivasubramaniam .

SIGNATORIES



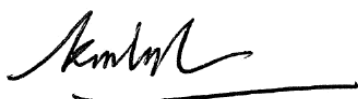
Akheequear BENIAAMEEN
Chemist



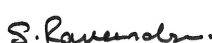
Bennet LO
Senior Chemist



Kamrul AHSAN
Senior Chemist



Ly Kim HA
Organic Section Head



Ravee SIVASUBRAMANIAM
Hygiene Team Leader



Shane MCDERMOTT
Inorganic/Metals Chemist

VOC's in Soil [AN433] Tested: 20/12/2021

PARAMETER	UOM	LOR	TP01_0.0-0.2	QZ01	TP02_0.0-0.1	TP03_0.0-0.2	TP04_0.0-0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			13/12/2021 SE227223.001	13/12/2021 SE227223.002	13/12/2021 SE227223.003	13/12/2021 SE227223.004	13/12/2021 SE227223.005
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
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
Naphthalene (VOC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PARAMETER	UOM	LOR	TP05_0.0-0.1	TP06_0.4-0.5	TP06_0.7-0.9	TP07_0.2-0.3	TP07_0.9-1.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			13/12/2021 SE227223.006	13/12/2021 SE227223.007	13/12/2021 SE227223.008	13/12/2021 SE227223.009	13/12/2021 SE227223.010
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
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
Naphthalene (VOC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PARAMETER	UOM	LOR	TP08_0.4-0.5	QZ02	TP08_0.8-0.9	TP10_0.1-0.2	TP11_0.1-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			13/12/2021 SE227223.011	13/12/2021 SE227223.012	13/12/2021 SE227223.013	13/12/2021 SE227223.014	13/12/2021 SE227223.015
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
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
Naphthalene (VOC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PARAMETER	UOM	LOR	TP12_0.0-0.2	TP13_0.0-0.1	TP14_0.0-0.1	TP15_0.0-0.2	QZ03
			SOIL	SOIL	SOIL	SOIL	SOIL
			13/12/2021 SE227223.016	13/12/2021 SE227223.017	13/12/2021 SE227223.018	13/12/2021 SE227223.019	13/12/2021 SE227223.020
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
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
Naphthalene (VOC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

VOC's in Soil [AN433] Tested: 20/12/2021 (continued)

PARAMETER	UOM	LOR	TP16_0.0-0.2	TP17_0.0-0.2	TP18_0.0-0.2	TP19_0.0-0.2	TP20_0.0-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			13/12/2021 SE227223.021	13/12/2021 SE227223.022	13/12/2021 SE227223.023	13/12/2021 SE227223.024	13/12/2021 SE227223.025
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
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
Naphthalene (VOC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PARAMETER	UOM	LOR	TP21_0.0-0.2	TP22_0.0-0.2	TP34_0.0-0.1	TP35_0.2-0.3	TP36_0.0-0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			13/12/2021 SE227223.026	13/12/2021 SE227223.027	14/12/2021 SE227223.040	14/12/2021 SE227223.041	14/12/2021 SE227223.042
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
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
Naphthalene (VOC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PARAMETER	UOM	LOR	TP37_0.0-0.2	TP38_0.1-0.3	TP39_0.0-0.2	TP40_0.0-0.1	TP41_0.1-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			14/12/2021 SE227223.043	14/12/2021 SE227223.044	14/12/2021 SE227223.045	14/12/2021 SE227223.046	14/12/2021 SE227223.047
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
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
Naphthalene (VOC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PARAMETER	UOM	LOR	TP42_0.2-0.4	QZ05	TP43_0.1-0.2	TP44_0.0-0.2	TP45_0.0-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			14/12/2021 SE227223.048	14/12/2021 SE227223.049	14/12/2021 SE227223.050	14/12/2021 SE227223.051	14/12/2021 SE227223.052
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
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
Naphthalene (VOC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

VOC's in Soil [AN433] Tested: 20/12/2021 (continued)

PARAMETER	UOM	LOR	TP46_0.1-0.3	TP47_0.0-0.1	TP48_0.0-0.1	TP49_0.0-0.2	TP49_0.4-0.5
			SOIL	SOIL	SOIL	SOIL	SOIL
			15/12/2021 SE227223.053	15/12/2021 SE227223.054	15/12/2021 SE227223.055	15/12/2021 SE227223.056	15/12/2021 SE227223.057
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
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
Naphthalene (VOC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PARAMETER	UOM	LOR	QZ06	TP51_0.0-0.2	TP52_0.0-0.1	TP53_0.0-0.2	TP54_0.0-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			15/12/2021 SE227223.058	15/12/2021 SE227223.059	15/12/2021 SE227223.060	15/12/2021 SE227223.061	15/12/2021 SE227223.062
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
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
Naphthalene (VOC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PARAMETER	UOM	LOR	Trip Blank 1	Trip Spike A
			SOIL	SOIL
			13/12/2021 SE227223.067	13/12/2021 SE227223.068
Benzene	mg/kg	0.1	<0.1	[79%]
Toluene	mg/kg	0.1	<0.1	[82%]
Ethylbenzene	mg/kg	0.1	<0.1	[85%]
m/p-xylene	mg/kg	0.2	<0.2	[85%]
o-xylene	mg/kg	0.1	<0.1	[88%]
Total Xylenes	mg/kg	0.3	<0.3	-
Total BTEX	mg/kg	0.6	<0.6	-
Naphthalene (VOC)	mg/kg	0.1	<0.1	-

Volatile Petroleum Hydrocarbons in Soil [AN433] Tested: 20/12/2021

PARAMETER	UOM	LOR	TP01_0.0-0.2	QZ01	TP02_0.0-0.1	TP03_0.0-0.2	TP04_0.0-0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			13/12/2021 SE227223.001	13/12/2021 SE227223.002	13/12/2021 SE227223.003	13/12/2021 SE227223.004	13/12/2021 SE227223.005
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
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	TP05_0.0-0.1	TP06_0.4-0.5	TP06_0.7-0.9	TP07_0.2-0.3	TP07_0.9-1.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			13/12/2021 SE227223.006	13/12/2021 SE227223.007	13/12/2021 SE227223.008	13/12/2021 SE227223.009	13/12/2021 SE227223.010
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
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	TP08_0.4-0.5	QZ02	TP08_0.8-0.9	TP10_0.1-0.2	TP11_0.1-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			13/12/2021 SE227223.011	13/12/2021 SE227223.012	13/12/2021 SE227223.013	13/12/2021 SE227223.014	13/12/2021 SE227223.015
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
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	TP12_0.0-0.2	TP13_0.0-0.1	TP14_0.0-0.1	TP15_0.0-0.2	QZ03
			SOIL	SOIL	SOIL	SOIL	SOIL
			13/12/2021 SE227223.016	13/12/2021 SE227223.017	13/12/2021 SE227223.018	13/12/2021 SE227223.019	13/12/2021 SE227223.020
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
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	TP16_0.0-0.2	TP17_0.0-0.2	TP18_0.0-0.2	TP19_0.0-0.2	TP20_0.0-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			13/12/2021 SE227223.021	13/12/2021 SE227223.022	13/12/2021 SE227223.023	13/12/2021 SE227223.024	13/12/2021 SE227223.025
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
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	TP21_0.0-0.2	TP22_0.0-0.2	TP34_0.0-0.1	TP35_0.2-0.3	TP36_0.0-0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			13/12/2021 SE227223.026	13/12/2021 SE227223.027	14/12/2021 SE227223.040	14/12/2021 SE227223.041	14/12/2021 SE227223.042
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
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: 20/12/2021 (continued)

PARAMETER	UOM	LOR	TP37_0.0-0.2	TP38_0.1-0.3	TP39_0.0-0.2	TP40_0.0-0.1	TP41_0.1-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			14/12/2021 SE227223.043	14/12/2021 SE227223.044	14/12/2021 SE227223.045	14/12/2021 SE227223.046	14/12/2021 SE227223.047
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
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	TP42_0.2-0.4	QZ05	TP43_0.1-0.2	TP44_0.0-0.2	TP45_0.0-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			14/12/2021 SE227223.048	14/12/2021 SE227223.049	14/12/2021 SE227223.050	14/12/2021 SE227223.051	14/12/2021 SE227223.052
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
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	TP46_0.1-0.3	TP47_0.0-0.1	TP48_0.0-0.1	TP49_0.0-0.2	TP49_0.4-0.5
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			15/12/2021 SE227223.053	15/12/2021 SE227223.054	15/12/2021 SE227223.055	15/12/2021 SE227223.056	15/12/2021 SE227223.057
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
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	QZ06	TP51_0.0-0.2	TP52_0.0-0.1	TP53_0.0-0.2	TP54_0.0-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			15/12/2021 SE227223.058	15/12/2021 SE227223.059	15/12/2021 SE227223.060	15/12/2021 SE227223.061	15/12/2021 SE227223.062
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
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

TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 17/12/2021

PARAMETER	UOM	LOR	TP01_0.0-0.2	QZ01	TP02_0.0-0.1	TP03_0.0-0.2	TP04_0.0-0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			13/12/2021 SE227223.001	13/12/2021 SE227223.002	13/12/2021 SE227223.003	13/12/2021 SE227223.004	13/12/2021 SE227223.005
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	TP05_0.0-0.1	TP06_0.4-0.5	TP06_0.7-0.9	TP07_0.2-0.3	TP07_0.9-1.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			13/12/2021 SE227223.006	13/12/2021 SE227223.007	13/12/2021 SE227223.008	13/12/2021 SE227223.009	13/12/2021 SE227223.010
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	TP08_0.4-0.5	QZ02	TP08_0.8-0.9	TP10_0.1-0.2	TP11_0.1-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			13/12/2021 SE227223.011	13/12/2021 SE227223.012	13/12/2021 SE227223.013	13/12/2021 SE227223.014	13/12/2021 SE227223.015
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: 17/12/2021 (continued)

PARAMETER	UOM	LOR	TP12_0.0-0.2	TP13_0.0-0.1	TP14_0.0-0.1	TP15_0.0-0.2	QZ03
			SOIL	SOIL	SOIL	SOIL	SOIL
			13/12/2021 SE227223.016	13/12/2021 SE227223.017	13/12/2021 SE227223.018	13/12/2021 SE227223.019	13/12/2021 SE227223.020
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	TP16_0.0-0.2	TP17_0.0-0.2	TP18_0.0-0.2	TP19_0.0-0.2	TP20_0.0-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			13/12/2021 SE227223.021	13/12/2021 SE227223.022	13/12/2021 SE227223.023	13/12/2021 SE227223.024	13/12/2021 SE227223.025
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	TP21_0.0-0.2	TP22_0.0-0.2	TP34_0.0-0.1	TP35_0.2-0.3	TP36_0.0-0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			13/12/2021 SE227223.026	13/12/2021 SE227223.027	14/12/2021 SE227223.040	14/12/2021 SE227223.041	14/12/2021 SE227223.042
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: 17/12/2021 (continued)

PARAMETER	UOM	LOR	TP37_0.0-0.2	TP38_0.1-0.3	TP39_0.0-0.2	TP40_0.0-0.1	TP41_0.1-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			14/12/2021 SE227223.043	14/12/2021 SE227223.044	14/12/2021 SE227223.045	14/12/2021 SE227223.046	14/12/2021 SE227223.047
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	TP42_0.2-0.4	QZ05	TP43_0.1-0.2	TP44_0.0-0.2	TP45_0.0-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			14/12/2021 SE227223.048	14/12/2021 SE227223.049	14/12/2021 SE227223.050	14/12/2021 SE227223.051	14/12/2021 SE227223.052
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	TP46_0.1-0.3	TP47_0.0-0.1	TP48_0.0-0.1	TP49_0.0-0.2	TP49_0.4-0.5
			SOIL	SOIL	SOIL	SOIL	SOIL
			15/12/2021 SE227223.053	15/12/2021 SE227223.054	15/12/2021 SE227223.055	15/12/2021 SE227223.056	15/12/2021 SE227223.057
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: 17/12/2021 (continued)

PARAMETER	UOM	LOR	QZ06	TP51_0.0-0.2	TP52_0.0-0.1	TP53_0.0-0.2	TP54_0.0-0.2
			SOIL - 15/12/2021 SE227223.058	SOIL - 15/12/2021 SE227223.059	SOIL - 15/12/2021 SE227223.060	SOIL - 15/12/2021 SE227223.061	SOIL - 15/12/2021 SE227223.062
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

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 17/12/2021

PARAMETER	UOM	LOR	TP01_0.0-0.2	QZ01	TP02_0.0-0.1	TP03_0.0-0.2	TP04_0.0-0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			13/12/2021 SE227223.001	13/12/2021 SE227223.002	13/12/2021 SE227223.003	13/12/2021 SE227223.004	13/12/2021 SE227223.005
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	TP05_0.0-0.1	TP06_0.4-0.5	TP06_0.7-0.9	TP07_0.2-0.3	TP07_0.9-1.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			13/12/2021 SE227223.006	13/12/2021 SE227223.007	13/12/2021 SE227223.008	13/12/2021 SE227223.009	13/12/2021 SE227223.010
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: 17/12/2021 (continued)

PARAMETER	UOM	LOR	TP08_0.4-0.5	QZ02	TP08_0.8-0.9	TP10_0.1-0.2	TP11_0.1-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			13/12/2021 SE227223.011	13/12/2021 SE227223.012	13/12/2021 SE227223.013	13/12/2021 SE227223.014	13/12/2021 SE227223.015
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	TP12_0.0-0.2	TP13_0.0-0.1	TP14_0.0-0.1	TP15_0.0-0.2	QZ03
			SOIL	SOIL	SOIL	SOIL	SOIL
			13/12/2021 SE227223.016	13/12/2021 SE227223.017	13/12/2021 SE227223.018	13/12/2021 SE227223.019	13/12/2021 SE227223.020
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: 17/12/2021 (continued)

PARAMETER	UOM	LOR	TP16_0.0-0.2	TP17_0.0-0.2	TP18_0.0-0.2	TP19_0.0-0.2	TP20_0.0-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			13/12/2021 SE227223.021	13/12/2021 SE227223.022	13/12/2021 SE227223.023	13/12/2021 SE227223.024	13/12/2021 SE227223.025
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	TP21_0.0-0.2	TP22_0.0-0.2	TP34_0.0-0.1	TP35_0.2-0.3	TP36_0.0-0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			13/12/2021 SE227223.026	13/12/2021 SE227223.027	14/12/2021 SE227223.040	14/12/2021 SE227223.041	14/12/2021 SE227223.042
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: 17/12/2021 (continued)

PARAMETER	UOM	LOR	TP37_0.0-0.2	TP38_0.1-0.3	TP39_0.0-0.2	TP40_0.0-0.1	TP41_0.1-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			14/12/2021 SE227223.043	14/12/2021 SE227223.044	14/12/2021 SE227223.045	14/12/2021 SE227223.046	14/12/2021 SE227223.047
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	TP42_0.2-0.4	QZ05	TP43_0.1-0.2	TP44_0.0-0.2	TP45_0.0-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			14/12/2021 SE227223.048	14/12/2021 SE227223.049	14/12/2021 SE227223.050	14/12/2021 SE227223.051	14/12/2021 SE227223.052
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: 17/12/2021 (continued)

PARAMETER	UOM	LOR	TP46_0.1-0.3	TP47_0.0-0.1	TP48_0.0-0.1	TP49_0.0-0.2	TP49_0.4-0.5
			SOIL	SOIL	SOIL	SOIL	SOIL
			15/12/2021 SE227223.053	15/12/2021 SE227223.054	15/12/2021 SE227223.055	15/12/2021 SE227223.056	15/12/2021 SE227223.057
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	QZ06	TP51_0.0-0.2	TP52_0.0-0.1	TP53_0.0-0.2	TP54_0.0-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			15/12/2021 SE227223.058	15/12/2021 SE227223.059	15/12/2021 SE227223.060	15/12/2021 SE227223.061	15/12/2021 SE227223.062
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

OC Pesticides in Soil [AN420] Tested: 17/12/2021

PARAMETER	UOM	LOR	TP01_0.0-0.2	QZ01	TP02_0.0-0.1	TP03_0.0-0.2	TP04_0.0-0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			13/12/2021 SE227223.001	13/12/2021 SE227223.002	13/12/2021 SE227223.003	13/12/2021 SE227223.004	13/12/2021 SE227223.005
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	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
Alpha Endosulfan	mg/kg	0.2	<0.2	-	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	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
Dieldrin	mg/kg	0.2	<0.2	-	<0.2	<0.2	<0.2
Endrin	mg/kg	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
o,p'-DDT	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	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
p,p'-DDT	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	-	<1	<1	<1
Total OC VIC EPA	mg/kg	1	<1	-	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 17/12/2021 (continued)

PARAMETER	UOM	LOR	TP05_0.0-0.1	TP06_0.4-0.5	TP06_0.7-0.9	TP07_0.2-0.3	TP07_0.9-1.1
			SOIL - 13/12/2021 SE227223.006	SOIL - 13/12/2021 SE227223.007	SOIL - 13/12/2021 SE227223.008	SOIL - 13/12/2021 SE227223.009	SOIL - 13/12/2021 SE227223.010
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: 17/12/2021 (continued)

PARAMETER	UOM	LOR	TP08_0.4-0.5	QZ02	TP08_0.8-0.9	TP10_0.1-0.2	TP11_0.1-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			13/12/2021 SE227223.011	13/12/2021 SE227223.012	13/12/2021 SE227223.013	13/12/2021 SE227223.014	13/12/2021 SE227223.015
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	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
Alpha Endosulfan	mg/kg	0.2	<0.2	-	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	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
Dieldrin	mg/kg	0.2	<0.2	-	<0.2	<0.2	<0.2
Endrin	mg/kg	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
o,p'-DDT	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	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
p,p'-DDT	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	-	<1	<1	<1
Total OC VIC EPA	mg/kg	1	<1	-	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 17/12/2021 (continued)

PARAMETER	UOM	LOR	TP12_0.0-0.2	TP13_0.0-0.1	TP14_0.0-0.1	TP38_0.1-0.3	TP39_0.0-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			13/12/2021 SE227223.016	13/12/2021 SE227223.017	13/12/2021 SE227223.018	14/12/2021 SE227223.044	14/12/2021 SE227223.045
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: 17/12/2021 (continued)

PARAMETER	UOM	LOR	TP40_0.0-0.1	TP41_0.1-0.2	TP42_0.2-0.4	QZ05	TP43_0.1-0.2
			SOIL - 14/12/2021 SE227223.046	SOIL - 14/12/2021 SE227223.047	SOIL - 14/12/2021 SE227223.048	SOIL - 14/12/2021 SE227223.049	SOIL - 14/12/2021 SE227223.050
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
Heptachlor epoxide	mg/kg	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
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	-	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
trans-Nonachlor	mg/kg	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
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	-	<0.2
Endrin	mg/kg	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
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
Beta Endosulfan	mg/kg	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
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	<1	<1	-	<1
Total OC VIC EPA	mg/kg	1	<1	<1	<1	-	<1

OC Pesticides in Soil [AN420] Tested: 17/12/2021 (continued)

PARAMETER	UOM	LOR	TP44_0.0-0.2	TP45_0.0-0.2	TP46_0.1-0.3	TP47_0.0-0.1	TP48_0.0-0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			14/12/2021 SE227223.051	14/12/2021 SE227223.052	15/12/2021 SE227223.053	15/12/2021 SE227223.054	15/12/2021 SE227223.055
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: 17/12/2021 (continued)

PARAMETER	UOM	LOR	TP49_0.0-0.2	TP49_0.4-0.5	QZ06	TP51_0.0-0.2	TP52_0.0-0.1
			SOIL - 15/12/2021 SE227223.056	SOIL - 15/12/2021 SE227223.057	SOIL - 15/12/2021 SE227223.058	SOIL - 15/12/2021 SE227223.059	SOIL - 15/12/2021 SE227223.060
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	-	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	-	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	-	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	-	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	-	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	-	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	-	<0.1	<0.1
Heptachlor epoxide	mg/kg	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
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	-	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	-	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	-	<0.1	<0.1
trans-Nonachlor	mg/kg	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
Dieldrin	mg/kg	0.2	<0.2	<0.2	-	<0.2	<0.2
Endrin	mg/kg	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
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	-	<0.1	<0.1
Beta Endosulfan	mg/kg	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
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	-	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	-	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	-	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	-	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	-	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	-	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	-	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	<1	-	<1	<1
Total OC VIC EPA	mg/kg	1	<1	<1	-	<1	<1

OC Pesticides in Soil [AN420] Tested: 17/12/2021 (continued)

PARAMETER	UOM	LOR	TP53_0.0-0.2	TP54_0.0-0.2
			SOIL - 15/12/2021 SE227223.061	SOIL - 15/12/2021 SE227223.062
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: 17/12/2021

PARAMETER	UOM	LOR	TP01_0.0-0.2	TP02_0.0-0.1	TP03_0.0-0.2	TP04_0.0-0.1	TP05_0.0-0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			13/12/2021 SE227223.001	13/12/2021 SE227223.003	13/12/2021 SE227223.004	13/12/2021 SE227223.005	13/12/2021 SE227223.006
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	TP06_0.4-0.5	TP06_0.7-0.9	TP07_0.2-0.3	TP07_0.9-1.1	TP08_0.4-0.5
			SOIL	SOIL	SOIL	SOIL	SOIL
			13/12/2021 SE227223.007	13/12/2021 SE227223.008	13/12/2021 SE227223.009	13/12/2021 SE227223.010	13/12/2021 SE227223.011
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	TP08_0.8-0.9	TP10_0.1-0.2	TP11_0.1-0.2	TP12_0.0-0.2	TP13_0.0-0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			13/12/2021 SE227223.013	13/12/2021 SE227223.014	13/12/2021 SE227223.015	13/12/2021 SE227223.016	13/12/2021 SE227223.017
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: 17/12/2021 (continued)

PARAMETER	UOM	LOR	TP14_0.0-0.1	TP38_0.1-0.3	TP39_0.0-0.2	TP40_0.0-0.1	TP41_0.1-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			13/12/2021 SE227223.018	14/12/2021 SE227223.044	14/12/2021 SE227223.045	14/12/2021 SE227223.046	14/12/2021 SE227223.047
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	TP42_0.2-0.4	TP43_0.1-0.2	TP44_0.0-0.2	TP45_0.0-0.2	TP46_0.1-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			14/12/2021 SE227223.048	14/12/2021 SE227223.050	14/12/2021 SE227223.051	14/12/2021 SE227223.052	15/12/2021 SE227223.053
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	TP47_0.0-0.1	TP48_0.0-0.1	TP49_0.0-0.2	TP49_0.4-0.5	TP51_0.0-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			15/12/2021 SE227223.054	15/12/2021 SE227223.055	15/12/2021 SE227223.056	15/12/2021 SE227223.057	15/12/2021 SE227223.059
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: 17/12/2021 (continued)

PARAMETER	UOM	LOR	TP52_0.0-0.1	TP53_0.0-0.2	TP54_0.0-0.2
			SOIL	SOIL	SOIL
			- 15/12/2021 SE227223.060	- 15/12/2021 SE227223.061	- 15/12/2021 SE227223.062
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7

PCBs in Soil [AN420] Tested: 17/12/2021

PARAMETER	UOM	LOR	TP01_0.0-0.2	QZ01	TP02_0.0-0.1	TP03_0.0-0.2	TP04_0.0-0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			13/12/2021 SE227223.001	13/12/2021 SE227223.002	13/12/2021 SE227223.003	13/12/2021 SE227223.004	13/12/2021 SE227223.005
Arochlor 1016	mg/kg	0.2	<0.2	-	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	-	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	-	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	-	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	-	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	-	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	-	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	-	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	-	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	-	<1	<1	<1

PARAMETER	UOM	LOR	TP05_0.0-0.1	TP06_0.4-0.5	TP06_0.7-0.9	TP07_0.2-0.3	TP07_0.9-1.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			13/12/2021 SE227223.006	13/12/2021 SE227223.007	13/12/2021 SE227223.008	13/12/2021 SE227223.009	13/12/2021 SE227223.010
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	TP08_0.4-0.5	QZ02	TP08_0.8-0.9	TP10_0.1-0.2	TP11_0.1-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			13/12/2021 SE227223.011	13/12/2021 SE227223.012	13/12/2021 SE227223.013	13/12/2021 SE227223.014	13/12/2021 SE227223.015
Arochlor 1016	mg/kg	0.2	<0.2	-	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	-	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	-	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	-	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	-	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	-	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	-	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	-	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	-	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	-	<1	<1	<1

PCBs in Soil [AN420] Tested: 17/12/2021 (continued)

PARAMETER	UOM	LOR	TP12_0.0-0.2	TP13_0.0-0.1	TP14_0.0-0.1	TP38_0.1-0.3	TP39_0.0-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			13/12/2021 SE227223.016	13/12/2021 SE227223.017	13/12/2021 SE227223.018	14/12/2021 SE227223.044	14/12/2021 SE227223.045
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	TP40_0.0-0.1	TP41_0.1-0.2	TP42_0.2-0.4	QZ05	TP43_0.1-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			14/12/2021 SE227223.046	14/12/2021 SE227223.047	14/12/2021 SE227223.048	14/12/2021 SE227223.049	14/12/2021 SE227223.050
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	-	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	-	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	-	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	-	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	-	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	-	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	-	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	-	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	-	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	-	<1

PARAMETER	UOM	LOR	TP44_0.0-0.2	TP45_0.0-0.2	TP46_0.1-0.3	TP47_0.0-0.1	TP48_0.0-0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			14/12/2021 SE227223.051	14/12/2021 SE227223.052	15/12/2021 SE227223.053	15/12/2021 SE227223.054	15/12/2021 SE227223.055
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: 17/12/2021 (continued)

PARAMETER	UOM	LOR	TP49_0.0-0.2	TP49_0.4-0.5	QZ06	TP51_0.0-0.2	TP52_0.0-0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			15/12/2021 SE227223.056	15/12/2021 SE227223.057	15/12/2021 SE227223.058	15/12/2021 SE227223.059	15/12/2021 SE227223.060
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	-	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	-	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	-	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	-	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	-	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	-	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	-	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	-	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	-	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	-	<1	<1

PARAMETER	UOM	LOR	TP53_0.0-0.2	TP54_0.0-0.2
			SOIL	SOIL
			15/12/2021 SE227223.061	15/12/2021 SE227223.062
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

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 21/12/2021

PARAMETER	UOM	LOR	TP01_0.0-0.2	QZ01	TP02_0.0-0.1	TP03_0.0-0.2	TP04_0.0-0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			13/12/2021 SE227223.001	13/12/2021 SE227223.002	13/12/2021 SE227223.003	13/12/2021 SE227223.004	13/12/2021 SE227223.005
Arsenic, As	mg/kg	1	8	7	7	7	7
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	23	27	24	23	20
Copper, Cu	mg/kg	0.5	6.4	7.2	4.7	5.5	5.6
Lead, Pb	mg/kg	1	22	22	17	19	19
Nickel, Ni	mg/kg	0.5	4.5	4.1	3.4	3.7	3.2
Zinc, Zn	mg/kg	2	14	13	16	13	17

PARAMETER	UOM	LOR	TP05_0.0-0.1	TP06_0.4-0.5	TP06_0.7-0.9	TP07_0.2-0.3	TP07_0.9-1.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			13/12/2021 SE227223.006	13/12/2021 SE227223.007	13/12/2021 SE227223.008	13/12/2021 SE227223.009	13/12/2021 SE227223.010
Arsenic, As	mg/kg	1	7	6	6	6	6
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	15	15	13	11	11
Copper, Cu	mg/kg	0.5	9.4	12	18	14	16
Lead, Pb	mg/kg	1	28	20	17	13	15
Nickel, Ni	mg/kg	0.5	6.6	5.0	9.2	7.5	7.6
Zinc, Zn	mg/kg	2	21	9.3	22	24	26

PARAMETER	UOM	LOR	TP08_0.4-0.5	QZ02	TP08_0.8-0.9	TP10_0.1-0.2	TP11_0.1-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			13/12/2021 SE227223.011	13/12/2021 SE227223.012	13/12/2021 SE227223.013	13/12/2021 SE227223.014	13/12/2021 SE227223.015
Arsenic, As	mg/kg	1	5	5	8	8	6
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	12	13	13	17	15
Copper, Cu	mg/kg	0.5	15	14	22	8.9	6.6
Lead, Pb	mg/kg	1	11	11	20	19	12
Nickel, Ni	mg/kg	0.5	7.6	6.8	8.8	6.4	4.5
Zinc, Zn	mg/kg	2	15	14	27	25	11

PARAMETER	UOM	LOR	TP12_0.0-0.2	TP13_0.0-0.1	TP14_0.0-0.1	TP15_0.0-0.2	QZ03
			SOIL	SOIL	SOIL	SOIL	SOIL
			13/12/2021 SE227223.016	13/12/2021 SE227223.017	13/12/2021 SE227223.018	13/12/2021 SE227223.019	13/12/2021 SE227223.020
Arsenic, As	mg/kg	1	8	7	8	9	9
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	18	15	19	14	17
Copper, Cu	mg/kg	0.5	7.6	10	7.7	12	9.8
Lead, Pb	mg/kg	1	19	26	19	18	19
Nickel, Ni	mg/kg	0.5	4.9	4.8	5.5	8.1	8.2
Zinc, Zn	mg/kg	2	23	15	20	26	26

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 21/12/2021

PARAMETER	UOM	LOR	TP16_0.0-0.2	TP17_0.0-0.2	TP18_0.0-0.2	TP19_0.0-0.2	TP20_0.0-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			13/12/2021 SE227223.021	13/12/2021 SE227223.022	13/12/2021 SE227223.023	13/12/2021 SE227223.024	13/12/2021 SE227223.025
Arsenic, As	mg/kg	1	6	7	7	6	7
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	11	13	13	12	13
Copper, Cu	mg/kg	0.5	12	12	16	16	15
Lead, Pb	mg/kg	1	15	17	18	19	21
Nickel, Ni	mg/kg	0.5	6.7	7.9	10	10	8.9
Zinc, Zn	mg/kg	2	23	33	35	45	30

PARAMETER	UOM	LOR	TP21_0.0-0.2	TP22_0.0-0.2	TP23_0.1-0.3	TP24_0.1-0.3	TP25_0.0-0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			13/12/2021 SE227223.026	13/12/2021 SE227223.027	13/12/2021 SE227223.028	13/12/2021 SE227223.029	13/12/2021 SE227223.030
Arsenic, As	mg/kg	1	6	8	3	5	5
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	13	15	14	14	10
Copper, Cu	mg/kg	0.5	15	16	34	41	9.4
Lead, Pb	mg/kg	1	16	20	11	11	15
Nickel, Ni	mg/kg	0.5	9.4	9.3	39	35	6.0
Zinc, Zn	mg/kg	2	38	23	39	65	18

PARAMETER	UOM	LOR	TP26_0.1-0.3	TP27_0.2-0.4	TP28_0.1-0.3	TP29_0.0-0.1	TP30_0.0-0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			13/12/2021 SE227223.031	13/12/2021 SE227223.032	14/12/2021 SE227223.033	14/12/2021 SE227223.034	14/12/2021 SE227223.035
Arsenic, As	mg/kg	1	5	10	6	9	9
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	14	20	10	15	17
Copper, Cu	mg/kg	0.5	44	26	71	13	13
Lead, Pb	mg/kg	1	12	22	16	17	19
Nickel, Ni	mg/kg	0.5	45	13	6.0	4.3	6.8
Zinc, Zn	mg/kg	2	55	51	39	18	26

PARAMETER	UOM	LOR	TP31_0.0-0.2	TP32_0.1-0.2	TP33_0.1-0.2	QZ04	TP34_0.0-0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			14/12/2021 SE227223.036	14/12/2021 SE227223.037	14/12/2021 SE227223.038	14/12/2021 SE227223.039	14/12/2021 SE227223.040
Arsenic, As	mg/kg	1	9	3	4	5	14
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	14	8.9	6.9	6.9	11
Copper, Cu	mg/kg	0.5	14	11	170	200	16
Lead, Pb	mg/kg	1	22	34	10	9	18
Nickel, Ni	mg/kg	0.5	8.0	6.6	8.3	8.7	14
Zinc, Zn	mg/kg	2	32	85	51	45	38

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 21/12/2021

PARAMETER	UOM	LOR	TP35_0.2-0.3	TP36_0.0-0.1	TP37_0.0-0.2	TP38_0.1-0.3	TP39_0.0-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			14/12/2021 SE227223.041	14/12/2021 SE227223.042	14/12/2021 SE227223.043	14/12/2021 SE227223.044	14/12/2021 SE227223.045
Arsenic, As	mg/kg	1	10	14	17	5	6
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	12	11	18	13	14
Copper, Cu	mg/kg	0.5	29	20	16	20	15
Lead, Pb	mg/kg	1	18	26	32	32	23
Nickel, Ni	mg/kg	0.5	19	11	14	12	8.5
Zinc, Zn	mg/kg	2	47	47	37	76	70

PARAMETER	UOM	LOR	TP40_0.0-0.1	TP41_0.1-0.2	TP42_0.2-0.4	QZ05	TP43_0.1-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			14/12/2021 SE227223.046	14/12/2021 SE227223.047	14/12/2021 SE227223.048	14/12/2021 SE227223.049	14/12/2021 SE227223.050
Arsenic, As	mg/kg	1	5	5	4	4	5
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	13	12	12	14	16
Copper, Cu	mg/kg	0.5	15	16	20	17	18
Lead, Pb	mg/kg	1	25	19	12	11	19
Nickel, Ni	mg/kg	0.5	7.8	8.6	20	17	8.4
Zinc, Zn	mg/kg	2	30	42	27	28	80

PARAMETER	UOM	LOR	TP44_0.0-0.2	TP45_0.0-0.2	TP46_0.1-0.3	TP47_0.0-0.1	TP48_0.0-0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			14/12/2021 SE227223.051	14/12/2021 SE227223.052	15/12/2021 SE227223.053	15/12/2021 SE227223.054	15/12/2021 SE227223.055
Arsenic, As	mg/kg	1	5	6	7	7	7
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	13	12	12	13	15
Copper, Cu	mg/kg	0.5	19	11	22	20	23
Lead, Pb	mg/kg	1	78	21	18	25	24
Nickel, Ni	mg/kg	0.5	5.1	7.4	13	9.4	11
Zinc, Zn	mg/kg	2	160	37	44	53	82

PARAMETER	UOM	LOR	TP49_0.0-0.2	TP49_0.4-0.5	QZ06	TP51_0.0-0.2	TP52_0.0-0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			15/12/2021 SE227223.056	15/12/2021 SE227223.057	15/12/2021 SE227223.058	15/12/2021 SE227223.059	15/12/2021 SE227223.060
Arsenic, As	mg/kg	1	11	11	12	9	12
Cadmium, Cd	mg/kg	0.3	0.6	0.6	0.7	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	13	11	12	9.0	9.2
Copper, Cu	mg/kg	0.5	43	32	35	28	19
Lead, Pb	mg/kg	1	470	59	62	16	13
Nickel, Ni	mg/kg	0.5	10	14	19	12	8.8
Zinc, Zn	mg/kg	2	890	130	170	83	47

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 21/12/2021

PARAMETER	UOM	LOR	TP53_0.0-0.2	TP54_0.0-0.2
			SOIL	SOIL
			-	-
			15/12/2021	15/12/2021
			SE227223.061	SE227223.062
Arsenic, As	mg/kg	1	11	11
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	8.1	8.9
Copper, Cu	mg/kg	0.5	24	19
Lead, Pb	mg/kg	1	15	16
Nickel, Ni	mg/kg	0.5	11	9.1
Zinc, Zn	mg/kg	2	60	47

Mercury in Soil [AN312] Tested: 21/12/2021

PARAMETER	UOM	LOR	TP01_0.0-0.2	QZ01	TP02_0.0-0.1	TP03_0.0-0.2	TP04_0.0-0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			13/12/2021 SE227223.001	13/12/2021 SE227223.002	13/12/2021 SE227223.003	13/12/2021 SE227223.004	13/12/2021 SE227223.005
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	TP05_0.0-0.1	TP06_0.4-0.5	TP06_0.7-0.9	TP07_0.2-0.3	TP07_0.9-1.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			13/12/2021 SE227223.006	13/12/2021 SE227223.007	13/12/2021 SE227223.008	13/12/2021 SE227223.009	13/12/2021 SE227223.010
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	TP08_0.4-0.5	QZ02	TP08_0.8-0.9	TP10_0.1-0.2	TP11_0.1-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			13/12/2021 SE227223.011	13/12/2021 SE227223.012	13/12/2021 SE227223.013	13/12/2021 SE227223.014	13/12/2021 SE227223.015
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	TP12_0.0-0.2	TP13_0.0-0.1	TP14_0.0-0.1	TP15_0.0-0.2	QZ03
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			13/12/2021 SE227223.016	13/12/2021 SE227223.017	13/12/2021 SE227223.018	13/12/2021 SE227223.019	13/12/2021 SE227223.020
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	TP16_0.0-0.2	TP17_0.0-0.2	TP18_0.0-0.2	TP19_0.0-0.2	TP20_0.0-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			13/12/2021 SE227223.021	13/12/2021 SE227223.022	13/12/2021 SE227223.023	13/12/2021 SE227223.024	13/12/2021 SE227223.025
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	TP21_0.0-0.2	TP22_0.0-0.2	TP23_0.1-0.3	TP24_0.1-0.3	TP25_0.0-0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			13/12/2021 SE227223.026	13/12/2021 SE227223.027	13/12/2021 SE227223.028	13/12/2021 SE227223.029	13/12/2021 SE227223.030
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	TP26_0.1-0.3	TP27_0.2-0.4	TP28_0.1-0.3	TP29_0.0-0.1	TP30_0.0-0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			13/12/2021 SE227223.031	13/12/2021 SE227223.032	14/12/2021 SE227223.033	14/12/2021 SE227223.034	14/12/2021 SE227223.035
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Mercury in Soil [AN312] Tested: 21/12/2021 (continued)

PARAMETER	UOM	LOR	TP31_0.0-0.2	TP32_0.1-0.2	TP33_0.1-0.2	QZ04	TP34_0.0-0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			14/12/2021 SE227223.036	14/12/2021 SE227223.037	14/12/2021 SE227223.038	14/12/2021 SE227223.039	14/12/2021 SE227223.040
Mercury	mg/kg	0.05	<0.05	0.06	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	TP35_0.2-0.3	TP36_0.0-0.1	TP37_0.0-0.2	TP38_0.1-0.3	TP39_0.0-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			14/12/2021 SE227223.041	14/12/2021 SE227223.042	14/12/2021 SE227223.043	14/12/2021 SE227223.044	14/12/2021 SE227223.045
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	0.22	<0.05

PARAMETER	UOM	LOR	TP40_0.0-0.1	TP41_0.1-0.2	TP42_0.2-0.4	QZ05	TP43_0.1-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			14/12/2021 SE227223.046	14/12/2021 SE227223.047	14/12/2021 SE227223.048	14/12/2021 SE227223.049	14/12/2021 SE227223.050
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	0.08

PARAMETER	UOM	LOR	TP44_0.0-0.2	TP45_0.0-0.2	TP46_0.1-0.3	TP47_0.0-0.1	TP48_0.0-0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			14/12/2021 SE227223.051	14/12/2021 SE227223.052	15/12/2021 SE227223.053	15/12/2021 SE227223.054	15/12/2021 SE227223.055
Mercury	mg/kg	0.05	0.09	<0.05	<0.05	<0.05	0.06

PARAMETER	UOM	LOR	TP49_0.0-0.2	TP49_0.4-0.5	QZ06	TP51_0.0-0.2	TP52_0.0-0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			15/12/2021 SE227223.056	15/12/2021 SE227223.057	15/12/2021 SE227223.058	15/12/2021 SE227223.059	15/12/2021 SE227223.060
Mercury	mg/kg	0.05	0.06	<0.05	0.06	<0.05	<0.05

PARAMETER	UOM	LOR	TP53_0.0-0.2	TP54_0.0-0.2
			SOIL	SOIL
			-	-
			15/12/2021 SE227223.061	15/12/2021 SE227223.062
Mercury	mg/kg	0.05	<0.05	<0.05

Moisture Content [AN002] Tested: 20/12/2021

PARAMETER	UOM	LOR	TP01_0.0-0.2	QZ01	TP02_0.0-0.1	TP03_0.0-0.2	TP04_0.0-0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			13/12/2021 SE227223.001	13/12/2021 SE227223.002	13/12/2021 SE227223.003	13/12/2021 SE227223.004	13/12/2021 SE227223.005
% Moisture	%w/w	1	18.4	19.4	20.6	14.6	19.8

PARAMETER	UOM	LOR	TP05_0.0-0.1	TP06_0.4-0.5	TP06_0.7-0.9	TP07_0.2-0.3	TP07_0.9-1.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			13/12/2021 SE227223.006	13/12/2021 SE227223.007	13/12/2021 SE227223.008	13/12/2021 SE227223.009	13/12/2021 SE227223.010
% Moisture	%w/w	1	18.2	12.6	11.3	15.1	18.7

PARAMETER	UOM	LOR	TP08_0.4-0.5	QZ02	TP08_0.8-0.9	TP10_0.1-0.2	TP11_0.1-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			13/12/2021 SE227223.011	13/12/2021 SE227223.012	13/12/2021 SE227223.013	13/12/2021 SE227223.014	13/12/2021 SE227223.015
% Moisture	%w/w	1	15.0	13.7	16.5	17.6	12.7

PARAMETER	UOM	LOR	TP12_0.0-0.2	TP13_0.0-0.1	TP14_0.0-0.1	TP15_0.0-0.2	QZ03
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			13/12/2021 SE227223.016	13/12/2021 SE227223.017	13/12/2021 SE227223.018	13/12/2021 SE227223.019	13/12/2021 SE227223.020
% Moisture	%w/w	1	17.8	16.6	16.6	19.9	18.6

PARAMETER	UOM	LOR	TP16_0.0-0.2	TP17_0.0-0.2	TP18_0.0-0.2	TP19_0.0-0.2	TP20_0.0-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			13/12/2021 SE227223.021	13/12/2021 SE227223.022	13/12/2021 SE227223.023	13/12/2021 SE227223.024	13/12/2021 SE227223.025
% Moisture	%w/w	1	22.8	23.4	23.5	23.1	18.3

PARAMETER	UOM	LOR	TP21_0.0-0.2	TP22_0.0-0.2	TP23_0.1-0.3	TP24_0.1-0.3	TP25_0.0-0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			13/12/2021 SE227223.026	13/12/2021 SE227223.027	13/12/2021 SE227223.028	13/12/2021 SE227223.029	13/12/2021 SE227223.030
% Moisture	%w/w	1	19.3	17.6	8.4	11.8	20.4

PARAMETER	UOM	LOR	TP26_0.1-0.3	TP27_0.2-0.4	TP28_0.1-0.3	TP29_0.0-0.1	TP30_0.0-0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			13/12/2021 SE227223.031	13/12/2021 SE227223.032	14/12/2021 SE227223.033	14/12/2021 SE227223.034	14/12/2021 SE227223.035
% Moisture	%w/w	1	9.0	12.9	16.5	18.3	19.6

Moisture Content [AN002] Tested: 20/12/2021 (continued)

PARAMETER	UOM	LOR	TP31_0.0-0.2	TP32_0.1-0.2	TP33_0.1-0.2	QZ04	TP34_0.0-0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			14/12/2021 SE227223.036	14/12/2021 SE227223.037	14/12/2021 SE227223.038	14/12/2021 SE227223.039	14/12/2021 SE227223.040
% Moisture	%w/w	1	20.0	14.2	9.3	11.5	20.5

PARAMETER	UOM	LOR	TP35_0.2-0.3	TP36_0.0-0.1	TP37_0.0-0.2	TP38_0.1-0.3	TP39_0.0-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			14/12/2021 SE227223.041	14/12/2021 SE227223.042	14/12/2021 SE227223.043	14/12/2021 SE227223.044	14/12/2021 SE227223.045
% Moisture	%w/w	1	22.1	24.9	22.9	21.4	19.5

PARAMETER	UOM	LOR	TP40_0.0-0.1	TP41_0.1-0.2	TP42_0.2-0.4	QZ05	TP43_0.1-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			14/12/2021 SE227223.046	14/12/2021 SE227223.047	14/12/2021 SE227223.048	14/12/2021 SE227223.049	14/12/2021 SE227223.050
% Moisture	%w/w	1	20.7	23.8	17.4	14.3	17.7

PARAMETER	UOM	LOR	TP44_0.0-0.2	TP45_0.0-0.2	TP46_0.1-0.3	TP47_0.0-0.1	TP48_0.0-0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			14/12/2021 SE227223.051	14/12/2021 SE227223.052	15/12/2021 SE227223.053	15/12/2021 SE227223.054	15/12/2021 SE227223.055
% Moisture	%w/w	1	23.0	21.4	20.2	9.5	12.1

PARAMETER	UOM	LOR	TP49_0.0-0.2	TP49_0.4-0.5	QZ06	TP51_0.0-0.2	TP52_0.0-0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			15/12/2021 SE227223.056	15/12/2021 SE227223.057	15/12/2021 SE227223.058	15/12/2021 SE227223.059	15/12/2021 SE227223.060
% Moisture	%w/w	1	31.0	21.4	22.3	19.0	18.9

PARAMETER	UOM	LOR	TP53_0.0-0.2	TP54_0.0-0.2	Trip Blank 1
			SOIL	SOIL	SOIL
			-	-	-
			15/12/2021 SE227223.061	15/12/2021 SE227223.062	13/12/2021 SE227223.067
% Moisture	%w/w	1	19.6	19.0	<1.0

Fibre Identification in soil [AN602] Tested: 22/12/2021

PARAMETER	UOM	LOR	TP01_0.0-0.2	TP02_0.0-0.1	TP03_0.0-0.2	TP04_0.0-0.1	TP05_0.0-0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			13/12/2021 SE227223.001	13/12/2021 SE227223.003	13/12/2021 SE227223.004	13/12/2021 SE227223.005	13/12/2021 SE227223.006
Asbestos Detected	No unit	-	No	No	No	No	No
Estimated Fibres*	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01

PARAMETER	UOM	LOR	TP06_0.4-0.5	TP06_0.7-0.9	TP07_0.2-0.3	TP07_0.9-1.1	TP08_0.4-0.5
			SOIL	SOIL	SOIL	SOIL	SOIL
			13/12/2021 SE227223.007	13/12/2021 SE227223.008	13/12/2021 SE227223.009	13/12/2021 SE227223.010	13/12/2021 SE227223.011
Asbestos Detected	No unit	-	No	No	No	No	No
Estimated Fibres*	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01

PARAMETER	UOM	LOR	TP08_0.8-0.9	TP10_0.1-0.2	TP11_0.1-0.2	TP12_0.0-0.2	TP13_0.0-0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			13/12/2021 SE227223.013	13/12/2021 SE227223.014	13/12/2021 SE227223.015	13/12/2021 SE227223.016	13/12/2021 SE227223.017
Asbestos Detected	No unit	-	No	No	No	No	No
Estimated Fibres*	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01

PARAMETER	UOM	LOR	TP14_0.0-0.1	TP15_0.0-0.2	TP16_0.0-0.2	TP17_0.0-0.2	TP18_0.0-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			13/12/2021 SE227223.018	13/12/2021 SE227223.019	13/12/2021 SE227223.021	13/12/2021 SE227223.022	13/12/2021 SE227223.023
Asbestos Detected	No unit	-	No	No	No	No	No
Estimated Fibres*	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01

PARAMETER	UOM	LOR	TP19_0.0-0.2	TP20_0.0-0.2	TP21_0.0-0.2	TP22_0.0-0.2	TP23_0.1-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			13/12/2021 SE227223.024	13/12/2021 SE227223.025	13/12/2021 SE227223.026	13/12/2021 SE227223.027	13/12/2021 SE227223.028
Asbestos Detected	No unit	-	No	No	No	No	No
Estimated Fibres*	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01

PARAMETER	UOM	LOR	TP24_0.1-0.3	TP25_0.0-0.1	TP26_0.1-0.3	TP27_0.2-0.4	TP28_0.1-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			13/12/2021 SE227223.029	13/12/2021 SE227223.030	13/12/2021 SE227223.031	13/12/2021 SE227223.032	14/12/2021 SE227223.033
Asbestos Detected	No unit	-	No	No	No	No	No
Estimated Fibres*	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01

PARAMETER	UOM	LOR	TP29_0.0-0.1	TP30_0.0-0.1	TP31_0.0-0.2	TP32_0.1-0.2	TP33_0.1-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			14/12/2021 SE227223.034	14/12/2021 SE227223.035	14/12/2021 SE227223.036	14/12/2021 SE227223.037	14/12/2021 SE227223.038
Asbestos Detected	No unit	-	No	No	No	No	No
Estimated Fibres*	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Fibre Identification in soil [AN602] Tested: 22/12/2021 (continued)

PARAMETER	UOM	LOR	TP34_0.0-0.1	TP35_0.2-0.3	TP38_0.1-0.3	TP39_0.0-0.2	TP40_0.0-0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			14/12/2021 SE227223.040	14/12/2021 SE227223.041	14/12/2021 SE227223.044	14/12/2021 SE227223.045	14/12/2021 SE227223.046
Asbestos Detected	No unit	-	No	No	No	No	No
Estimated Fibres*	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01

PARAMETER	UOM	LOR	TP41_0.1-0.2	TP42_0.2-0.4	TP43_0.1-0.2	TP44_0.0-0.2	TP45_0.0-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			14/12/2021 SE227223.047	14/12/2021 SE227223.048	14/12/2021 SE227223.050	14/12/2021 SE227223.051	14/12/2021 SE227223.052
Asbestos Detected	No unit	-	No	No	No	No	No
Estimated Fibres*	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01

PARAMETER	UOM	LOR	TP46_0.1-0.3	TP47_0.0-0.1	TP48_0.0-0.1	TP49_0.0-0.2	TP51_0.0-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			15/12/2021 SE227223.053	15/12/2021 SE227223.054	15/12/2021 SE227223.055	15/12/2021 SE227223.056	15/12/2021 SE227223.059
Asbestos Detected	No unit	-	No	No	No	No	No
Estimated Fibres*	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01

PARAMETER	UOM	LOR	TP52_0.0-0.1	TP53_0.0-0.2	TP54_0.0-0.2
			SOIL	SOIL	SOIL
			-	-	-
			15/12/2021 SE227223.060	15/12/2021 SE227223.061	15/12/2021 SE227223.062
Asbestos Detected	No unit	-	No	No	No
Estimated Fibres*	%w/w	0.01	<0.01	<0.01	<0.01

Fibre ID in bulk materials [AN602] Tested: 23/12/2021

			F01	F02	F03	F04
			MATERIAL	MATERIAL	MATERIAL	MATERIAL
			-	-	-	-
			14/12/2021	15/12/2021	15/12/2021	15/12/2021
			SE227223.063	SE227223.064	SE227223.065	SE227223.066
PARAMETER	UOM	LOR				
Asbestos Detected	No unit	-	Yes	No	No	Yes

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.
- 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.
- 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
- 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.
- AN602** Qualitative identification of chrysotile, amosite and crocidolite in bulk samples by polarised light microscopy (PLM) in conjunction with dispersion staining (DS). AS4964 provides the basis for this document. Unequivocal identification of the asbestos minerals present is made by obtaining sufficient diagnostic 'clues', which provide a reasonable degree of certainty, dispersion staining is a mandatory 'clue' for positive identification. If sufficient 'clues' are absent, then positive identification of asbestos is not possible. This procedure requires removal of suspect fibres/bundles from the sample which cannot be returned.
- AN602** Fibres/material that cannot be unequivocally identified as one of the three asbestos forms, will be reported as unknown mineral fibres (umf) The fibres detected may or may not be asbestos fibres.
- AN602** AS4964.2004 Method for the Qualitative Identification of Asbestos in Bulk Samples, Section 8.4, Trace Analysis Criteria, Note 4 states:"Depending upon sample condition and fibre type, the detection/reporting limit (RL) of this technique has been found to lie generally in the range of 1 in 1,000 to 1 in 10,000 parts by weight, equivalent to 1 to 0.1 g/kg."
- AN602** The sample can be reported "no asbestos found at the reporting limit (RL) of 0.1 g/kg" (<0.01%w/w) where AN602 section 4.5 of this method has been followed, and if-
- no trace asbestos fibres have been detected (i.e. no 'respirable' fibres);
 - the estimated weight of non-respirable asbestos fibre bundles and/or the estimated weight of asbestos in asbestos-containing materials are found to be less than 0.1g/kg; and
 - these non-respirable asbestos fibre bundles and/or the asbestos containing materials are only visible under stereo-microscope viewing conditions.

FOOTNOTES

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

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:

- 1 Bq is equivalent to 27 pCi
- 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.

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.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client only. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

This report must not be reproduced, except in full.



STATEMENT OF QA/QC PERFORMANCE

SE227223 R0

CLIENT DETAILS

Contact ADAM SULLIVAN
Client SULLIVAN ENVIRONMENTAL SCIENCES PTY. LIMITED
Address PO BOX 5248
TURRAMURRA NSW 2074

Telephone (Not specified)
Facsimile (Not specified)
Email ENQUIRIES@SULLIVAN-ES.COM.AU

Project **SES_631 Cobbilty**
Order Number **SES_631**
Samples 68

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 **SE227223 R0**
Date Received 16 Dec 2021
Date Reported 23 Dec 2021

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:

Duplicate	Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES	1 item
Matrix Spike	Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES	1 item

SAMPLE SUMMARY

Samples clearly labelled	Yes	Complete documentation received	Yes
Sample container provider	SGS	Sample cooling method	Ice
Samples received in correct containers	Yes	Sample counts by matrix	64 Soil, 4 Material
Date documentation received	16/12/2021	Type of documentation received	COC
Samples received in good order	Yes	Samples received without headspace	Yes
Sample temperature upon receipt	4.0°C	Sufficient sample for analysis	Yes
Turnaround time requested	Standard		

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

Fibre ID in bulk materials

Method: ME-(AU)-ENVJAN602

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
F01	SE227223.063	LB239881	14 Dec 2021	16 Dec 2021	14 Dec 2022	23 Dec 2021	14 Dec 2022	23 Dec 2021
F02	SE227223.064	LB239881	15 Dec 2021	16 Dec 2021	15 Dec 2022	23 Dec 2021	15 Dec 2022	23 Dec 2021
F03	SE227223.065	LB239881	15 Dec 2021	16 Dec 2021	15 Dec 2022	23 Dec 2021	15 Dec 2022	23 Dec 2021
F04	SE227223.066	LB239881	15 Dec 2021	16 Dec 2021	15 Dec 2022	23 Dec 2021	15 Dec 2022	23 Dec 2021

Fibre Identification in soil

Method: ME-(AU)-ENVJAN602

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP01_0.0-0.2	SE227223.001	LB239797	13 Dec 2021	16 Dec 2021	13 Dec 2022	22 Dec 2021	13 Dec 2022	23 Dec 2021
TP02_0.0-0.1	SE227223.003	LB239797	13 Dec 2021	16 Dec 2021	13 Dec 2022	22 Dec 2021	13 Dec 2022	23 Dec 2021
TP03_0.0-0.2	SE227223.004	LB239797	13 Dec 2021	16 Dec 2021	13 Dec 2022	22 Dec 2021	13 Dec 2022	23 Dec 2021
TP04_0.0-0.1	SE227223.005	LB239797	13 Dec 2021	16 Dec 2021	13 Dec 2022	22 Dec 2021	13 Dec 2022	23 Dec 2021
TP05_0.0-0.1	SE227223.006	LB239797	13 Dec 2021	16 Dec 2021	13 Dec 2022	22 Dec 2021	13 Dec 2022	23 Dec 2021
TP06_0.4-0.5	SE227223.007	LB239797	13 Dec 2021	16 Dec 2021	13 Dec 2022	22 Dec 2021	13 Dec 2022	23 Dec 2021
TP06_0.7-0.9	SE227223.008	LB239797	13 Dec 2021	16 Dec 2021	13 Dec 2022	22 Dec 2021	13 Dec 2022	23 Dec 2021
TP07_0.2-0.3	SE227223.009	LB239797	13 Dec 2021	16 Dec 2021	13 Dec 2022	22 Dec 2021	13 Dec 2022	23 Dec 2021
TP07_0.9-1.1	SE227223.010	LB239797	13 Dec 2021	16 Dec 2021	13 Dec 2022	22 Dec 2021	13 Dec 2022	23 Dec 2021
TP08_0.4-0.5	SE227223.011	LB239797	13 Dec 2021	16 Dec 2021	13 Dec 2022	22 Dec 2021	13 Dec 2022	23 Dec 2021
TP08_0.8-0.9	SE227223.013	LB239797	13 Dec 2021	16 Dec 2021	13 Dec 2022	22 Dec 2021	13 Dec 2022	23 Dec 2021
TP10_0.1-0.2	SE227223.014	LB239797	13 Dec 2021	16 Dec 2021	13 Dec 2022	22 Dec 2021	13 Dec 2022	23 Dec 2021
TP11_0.1-0.2	SE227223.015	LB239797	13 Dec 2021	16 Dec 2021	13 Dec 2022	22 Dec 2021	13 Dec 2022	23 Dec 2021
TP12_0.0-0.2	SE227223.016	LB239797	13 Dec 2021	16 Dec 2021	13 Dec 2022	22 Dec 2021	13 Dec 2022	23 Dec 2021
TP13_0.0-0.1	SE227223.017	LB239797	13 Dec 2021	16 Dec 2021	13 Dec 2022	22 Dec 2021	13 Dec 2022	23 Dec 2021
TP14_0.0-0.1	SE227223.018	LB239797	13 Dec 2021	16 Dec 2021	13 Dec 2022	22 Dec 2021	13 Dec 2022	23 Dec 2021
TP15_0.0-0.2	SE227223.019	LB239797	13 Dec 2021	16 Dec 2021	13 Dec 2022	22 Dec 2021	13 Dec 2022	23 Dec 2021
TP16_0.0-0.2	SE227223.021	LB239797	13 Dec 2021	16 Dec 2021	13 Dec 2022	22 Dec 2021	13 Dec 2022	23 Dec 2021
TP17_0.0-0.2	SE227223.022	LB239797	13 Dec 2021	16 Dec 2021	13 Dec 2022	22 Dec 2021	13 Dec 2022	23 Dec 2021
TP18_0.0-0.2	SE227223.023	LB239797	13 Dec 2021	16 Dec 2021	13 Dec 2022	22 Dec 2021	13 Dec 2022	23 Dec 2021
TP19_0.0-0.2	SE227223.024	LB239797	13 Dec 2021	16 Dec 2021	13 Dec 2022	22 Dec 2021	13 Dec 2022	23 Dec 2021
TP20_0.0-0.2	SE227223.025	LB239797	13 Dec 2021	16 Dec 2021	13 Dec 2022	22 Dec 2021	13 Dec 2022	23 Dec 2021
TP21_0.0-0.2	SE227223.026	LB239797	13 Dec 2021	16 Dec 2021	13 Dec 2022	22 Dec 2021	13 Dec 2022	23 Dec 2021
TP22_0.0-0.2	SE227223.027	LB239797	13 Dec 2021	16 Dec 2021	13 Dec 2022	22 Dec 2021	13 Dec 2022	23 Dec 2021
TP23_0.1-0.3	SE227223.028	LB239797	13 Dec 2021	16 Dec 2021	13 Dec 2022	22 Dec 2021	13 Dec 2022	23 Dec 2021
TP24_0.1-0.3	SE227223.029	LB239797	13 Dec 2021	16 Dec 2021	13 Dec 2022	22 Dec 2021	13 Dec 2022	23 Dec 2021
TP25_0.0-0.1	SE227223.030	LB239797	13 Dec 2021	16 Dec 2021	13 Dec 2022	22 Dec 2021	13 Dec 2022	23 Dec 2021
TP26_0.1-0.3	SE227223.031	LB239797	13 Dec 2021	16 Dec 2021	13 Dec 2022	22 Dec 2021	13 Dec 2022	23 Dec 2021
TP27_0.2-0.4	SE227223.032	LB239797	13 Dec 2021	16 Dec 2021	13 Dec 2022	22 Dec 2021	13 Dec 2022	23 Dec 2021
TP28_0.1-0.3	SE227223.033	LB239797	14 Dec 2021	16 Dec 2021	14 Dec 2022	22 Dec 2021	14 Dec 2022	23 Dec 2021
TP29_0.0-0.1	SE227223.034	LB239797	14 Dec 2021	16 Dec 2021	14 Dec 2022	22 Dec 2021	14 Dec 2022	23 Dec 2021
TP30_0.0-0.1	SE227223.035	LB239797	14 Dec 2021	16 Dec 2021	14 Dec 2022	22 Dec 2021	14 Dec 2022	23 Dec 2021
TP31_0.0-0.2	SE227223.036	LB239797	14 Dec 2021	16 Dec 2021	14 Dec 2022	22 Dec 2021	14 Dec 2022	23 Dec 2021
TP32_0.1-0.2	SE227223.037	LB239797	14 Dec 2021	16 Dec 2021	14 Dec 2022	22 Dec 2021	14 Dec 2022	23 Dec 2021
TP33_0.1-0.2	SE227223.038	LB239797	14 Dec 2021	16 Dec 2021	14 Dec 2022	22 Dec 2021	14 Dec 2022	23 Dec 2021
TP34_0.0-0.1	SE227223.040	LB239797	14 Dec 2021	16 Dec 2021	14 Dec 2022	22 Dec 2021	14 Dec 2022	23 Dec 2021
TP35_0.2-0.3	SE227223.041	LB239797	14 Dec 2021	16 Dec 2021	14 Dec 2022	22 Dec 2021	14 Dec 2022	23 Dec 2021
TP38_0.1-0.3	SE227223.044	LB239797	14 Dec 2021	16 Dec 2021	14 Dec 2022	22 Dec 2021	14 Dec 2022	23 Dec 2021
TP39_0.0-0.2	SE227223.045	LB239797	14 Dec 2021	16 Dec 2021	14 Dec 2022	22 Dec 2021	14 Dec 2022	23 Dec 2021
TP40_0.0-0.1	SE227223.046	LB239797	14 Dec 2021	16 Dec 2021	14 Dec 2022	22 Dec 2021	14 Dec 2022	23 Dec 2021
TP41_0.1-0.2	SE227223.047	LB239797	14 Dec 2021	16 Dec 2021	14 Dec 2022	22 Dec 2021	14 Dec 2022	23 Dec 2021
TP42_0.2-0.4	SE227223.048	LB239797	14 Dec 2021	16 Dec 2021	14 Dec 2022	22 Dec 2021	14 Dec 2022	23 Dec 2021
TP43_0.1-0.2	SE227223.050	LB239797	14 Dec 2021	16 Dec 2021	14 Dec 2022	22 Dec 2021	14 Dec 2022	23 Dec 2021
TP44_0.0-0.2	SE227223.051	LB239797	14 Dec 2021	16 Dec 2021	14 Dec 2022	22 Dec 2021	14 Dec 2022	23 Dec 2021
TP45_0.0-0.2	SE227223.052	LB239797	14 Dec 2021	16 Dec 2021	14 Dec 2022	22 Dec 2021	14 Dec 2022	23 Dec 2021
TP46_0.1-0.3	SE227223.053	LB239797	15 Dec 2021	16 Dec 2021	15 Dec 2022	22 Dec 2021	15 Dec 2022	23 Dec 2021
TP47_0.0-0.1	SE227223.054	LB239797	15 Dec 2021	16 Dec 2021	15 Dec 2022	22 Dec 2021	15 Dec 2022	23 Dec 2021
TP48_0.0-0.1	SE227223.055	LB239797	15 Dec 2021	16 Dec 2021	15 Dec 2022	22 Dec 2021	15 Dec 2022	23 Dec 2021
TP49_0.0-0.2	SE227223.056	LB239797	15 Dec 2021	16 Dec 2021	15 Dec 2022	22 Dec 2021	15 Dec 2022	23 Dec 2021
TP51_0.0-0.2	SE227223.059	LB239797	15 Dec 2021	16 Dec 2021	15 Dec 2022	22 Dec 2021	15 Dec 2022	23 Dec 2021
TP52_0.0-0.1	SE227223.060	LB239797	15 Dec 2021	16 Dec 2021	15 Dec 2022	22 Dec 2021	15 Dec 2022	23 Dec 2021
TP53_0.0-0.2	SE227223.061	LB239797	15 Dec 2021	16 Dec 2021	15 Dec 2022	22 Dec 2021	15 Dec 2022	23 Dec 2021
TP54_0.0-0.2	SE227223.062	LB239797	15 Dec 2021	16 Dec 2021	15 Dec 2022	22 Dec 2021	15 Dec 2022	23 Dec 2021



HOLDING TIME SUMMARY

SE227223 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

Mercury in Soil

Method: ME-(AU)-ENVJAN312

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP01_0.0-0.2	SE227223.001	LB239749	13 Dec 2021	16 Dec 2021	10 Jan 2022	21 Dec 2021	10 Jan 2022	23 Dec 2021
QZ01	SE227223.002	LB239749	13 Dec 2021	16 Dec 2021	10 Jan 2022	21 Dec 2021	10 Jan 2022	23 Dec 2021
TP02_0.0-0.1	SE227223.003	LB239749	13 Dec 2021	16 Dec 2021	10 Jan 2022	21 Dec 2021	10 Jan 2022	23 Dec 2021
TP03_0.0-0.2	SE227223.004	LB239749	13 Dec 2021	16 Dec 2021	10 Jan 2022	21 Dec 2021	10 Jan 2022	23 Dec 2021
TP04_0.0-0.1	SE227223.005	LB239749	13 Dec 2021	16 Dec 2021	10 Jan 2022	21 Dec 2021	10 Jan 2022	23 Dec 2021
TP05_0.0-0.1	SE227223.006	LB239749	13 Dec 2021	16 Dec 2021	10 Jan 2022	21 Dec 2021	10 Jan 2022	23 Dec 2021
TP06_0.4-0.5	SE227223.007	LB239749	13 Dec 2021	16 Dec 2021	10 Jan 2022	21 Dec 2021	10 Jan 2022	23 Dec 2021
TP06_0.7-0.9	SE227223.008	LB239749	13 Dec 2021	16 Dec 2021	10 Jan 2022	21 Dec 2021	10 Jan 2022	23 Dec 2021
TP07_0.2-0.3	SE227223.009	LB239749	13 Dec 2021	16 Dec 2021	10 Jan 2022	21 Dec 2021	10 Jan 2022	23 Dec 2021
TP07_0.9-1.1	SE227223.010	LB239749	13 Dec 2021	16 Dec 2021	10 Jan 2022	21 Dec 2021	10 Jan 2022	23 Dec 2021
TP08_0.4-0.5	SE227223.011	LB239749	13 Dec 2021	16 Dec 2021	10 Jan 2022	21 Dec 2021	10 Jan 2022	23 Dec 2021
QZ02	SE227223.012	LB239749	13 Dec 2021	16 Dec 2021	10 Jan 2022	21 Dec 2021	10 Jan 2022	23 Dec 2021
TP08_0.8-0.9	SE227223.013	LB239749	13 Dec 2021	16 Dec 2021	10 Jan 2022	21 Dec 2021	10 Jan 2022	23 Dec 2021
TP10_0.1-0.2	SE227223.014	LB239749	13 Dec 2021	16 Dec 2021	10 Jan 2022	21 Dec 2021	10 Jan 2022	23 Dec 2021
TP11_0.1-0.2	SE227223.015	LB239749	13 Dec 2021	16 Dec 2021	10 Jan 2022	21 Dec 2021	10 Jan 2022	23 Dec 2021
TP12_0.0-0.2	SE227223.016	LB239749	13 Dec 2021	16 Dec 2021	10 Jan 2022	21 Dec 2021	10 Jan 2022	23 Dec 2021
TP13_0.0-0.1	SE227223.017	LB239749	13 Dec 2021	16 Dec 2021	10 Jan 2022	21 Dec 2021	10 Jan 2022	23 Dec 2021
TP14_0.0-0.1	SE227223.018	LB239749	13 Dec 2021	16 Dec 2021	10 Jan 2022	21 Dec 2021	10 Jan 2022	23 Dec 2021
TP15_0.0-0.2	SE227223.019	LB239749	13 Dec 2021	16 Dec 2021	10 Jan 2022	21 Dec 2021	10 Jan 2022	23 Dec 2021
QZ03	SE227223.020	LB239750	13 Dec 2021	16 Dec 2021	10 Jan 2022	21 Dec 2021	10 Jan 2022	23 Dec 2021
TP16_0.0-0.2	SE227223.021	LB239750	13 Dec 2021	16 Dec 2021	10 Jan 2022	21 Dec 2021	10 Jan 2022	23 Dec 2021
TP17_0.0-0.2	SE227223.022	LB239750	13 Dec 2021	16 Dec 2021	10 Jan 2022	21 Dec 2021	10 Jan 2022	23 Dec 2021
TP18_0.0-0.2	SE227223.023	LB239750	13 Dec 2021	16 Dec 2021	10 Jan 2022	21 Dec 2021	10 Jan 2022	23 Dec 2021
TP19_0.0-0.2	SE227223.024	LB239750	13 Dec 2021	16 Dec 2021	10 Jan 2022	21 Dec 2021	10 Jan 2022	23 Dec 2021
TP20_0.0-0.2	SE227223.025	LB239750	13 Dec 2021	16 Dec 2021	10 Jan 2022	21 Dec 2021	10 Jan 2022	23 Dec 2021
TP21_0.0-0.2	SE227223.026	LB239750	13 Dec 2021	16 Dec 2021	10 Jan 2022	21 Dec 2021	10 Jan 2022	23 Dec 2021
TP22_0.0-0.2	SE227223.027	LB239750	13 Dec 2021	16 Dec 2021	10 Jan 2022	21 Dec 2021	10 Jan 2022	23 Dec 2021
TP23_0.1-0.3	SE227223.028	LB239750	13 Dec 2021	16 Dec 2021	10 Jan 2022	21 Dec 2021	10 Jan 2022	23 Dec 2021
TP24_0.1-0.3	SE227223.029	LB239750	13 Dec 2021	16 Dec 2021	10 Jan 2022	21 Dec 2021	10 Jan 2022	23 Dec 2021
TP25_0.0-0.1	SE227223.030	LB239750	13 Dec 2021	16 Dec 2021	10 Jan 2022	21 Dec 2021	10 Jan 2022	23 Dec 2021
TP26_0.1-0.3	SE227223.031	LB239750	13 Dec 2021	16 Dec 2021	10 Jan 2022	21 Dec 2021	10 Jan 2022	23 Dec 2021
TP27_0.2-0.4	SE227223.032	LB239750	13 Dec 2021	16 Dec 2021	10 Jan 2022	21 Dec 2021	10 Jan 2022	23 Dec 2021
TP28_0.1-0.3	SE227223.033	LB239750	14 Dec 2021	16 Dec 2021	11 Jan 2022	21 Dec 2021	11 Jan 2022	23 Dec 2021
TP29_0.0-0.1	SE227223.034	LB239750	14 Dec 2021	16 Dec 2021	11 Jan 2022	21 Dec 2021	11 Jan 2022	23 Dec 2021
TP30_0.0-0.1	SE227223.035	LB239750	14 Dec 2021	16 Dec 2021	11 Jan 2022	21 Dec 2021	11 Jan 2022	23 Dec 2021
TP31_0.0-0.2	SE227223.036	LB239750	14 Dec 2021	16 Dec 2021	11 Jan 2022	21 Dec 2021	11 Jan 2022	23 Dec 2021
TP32_0.1-0.2	SE227223.037	LB239750	14 Dec 2021	16 Dec 2021	11 Jan 2022	21 Dec 2021	11 Jan 2022	23 Dec 2021
TP33_0.1-0.2	SE227223.038	LB239750	14 Dec 2021	16 Dec 2021	11 Jan 2022	21 Dec 2021	11 Jan 2022	23 Dec 2021
QZ04	SE227223.039	LB239751	14 Dec 2021	16 Dec 2021	11 Jan 2022	21 Dec 2021	11 Jan 2022	23 Dec 2021
TP34_0.0-0.1	SE227223.040	LB239751	14 Dec 2021	16 Dec 2021	11 Jan 2022	21 Dec 2021	11 Jan 2022	23 Dec 2021
TP35_0.2-0.3	SE227223.041	LB239751	14 Dec 2021	16 Dec 2021	11 Jan 2022	21 Dec 2021	11 Jan 2022	23 Dec 2021
TP36_0.0-0.1	SE227223.042	LB239751	14 Dec 2021	16 Dec 2021	11 Jan 2022	21 Dec 2021	11 Jan 2022	23 Dec 2021
TP37_0.0-0.2	SE227223.043	LB239751	14 Dec 2021	16 Dec 2021	11 Jan 2022	21 Dec 2021	11 Jan 2022	23 Dec 2021
TP38_0.1-0.3	SE227223.044	LB239751	14 Dec 2021	16 Dec 2021	11 Jan 2022	21 Dec 2021	11 Jan 2022	23 Dec 2021
TP39_0.0-0.2	SE227223.045	LB239751	14 Dec 2021	16 Dec 2021	11 Jan 2022	21 Dec 2021	11 Jan 2022	23 Dec 2021
TP40_0.0-0.1	SE227223.046	LB239751	14 Dec 2021	16 Dec 2021	11 Jan 2022	21 Dec 2021	11 Jan 2022	23 Dec 2021
TP41_0.1-0.2	SE227223.047	LB239751	14 Dec 2021	16 Dec 2021	11 Jan 2022	21 Dec 2021	11 Jan 2022	23 Dec 2021
TP42_0.2-0.4	SE227223.048	LB239751	14 Dec 2021	16 Dec 2021	11 Jan 2022	21 Dec 2021	11 Jan 2022	23 Dec 2021
QZ05	SE227223.049	LB239751	14 Dec 2021	16 Dec 2021	11 Jan 2022	21 Dec 2021	11 Jan 2022	23 Dec 2021
TP43_0.1-0.2	SE227223.050	LB239751	14 Dec 2021	16 Dec 2021	11 Jan 2022	21 Dec 2021	11 Jan 2022	23 Dec 2021
TP44_0.0-0.2	SE227223.051	LB239751	14 Dec 2021	16 Dec 2021	11 Jan 2022	21 Dec 2021	11 Jan 2022	23 Dec 2021
TP45_0.0-0.2	SE227223.052	LB239751	14 Dec 2021	16 Dec 2021	11 Jan 2022	21 Dec 2021	11 Jan 2022	23 Dec 2021
TP46_0.1-0.3	SE227223.053	LB239751	15 Dec 2021	16 Dec 2021	12 Jan 2022	21 Dec 2021	12 Jan 2022	23 Dec 2021
TP47_0.0-0.1	SE227223.054	LB239751	15 Dec 2021	16 Dec 2021	12 Jan 2022	21 Dec 2021	12 Jan 2022	23 Dec 2021
TP48_0.0-0.1	SE227223.055	LB239751	15 Dec 2021	16 Dec 2021	12 Jan 2022	21 Dec 2021	12 Jan 2022	23 Dec 2021
TP49_0.0-0.2	SE227223.056	LB239751	15 Dec 2021	16 Dec 2021	12 Jan 2022	21 Dec 2021	12 Jan 2022	23 Dec 2021
TP49_0.4-0.5	SE227223.057	LB239751	15 Dec 2021	16 Dec 2021	12 Jan 2022	21 Dec 2021	12 Jan 2022	23 Dec 2021
QZ06	SE227223.058	LB239761	15 Dec 2021	16 Dec 2021	12 Jan 2022	21 Dec 2021	12 Jan 2022	22 Dec 2021
TP51_0.0-0.2	SE227223.059	LB239761	15 Dec 2021	16 Dec 2021	12 Jan 2022	21 Dec 2021	12 Jan 2022	22 Dec 2021
TP52_0.0-0.1	SE227223.060	LB239761	15 Dec 2021	16 Dec 2021	12 Jan 2022	21 Dec 2021	12 Jan 2022	22 Dec 2021

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)-ENVJAN312

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP53_0.0-0.2	SE227223.061	LB239761	15 Dec 2021	16 Dec 2021	12 Jan 2022	21 Dec 2021	12 Jan 2022	22 Dec 2021
TP54_0.0-0.2	SE227223.062	LB239761	15 Dec 2021	16 Dec 2021	12 Jan 2022	21 Dec 2021	12 Jan 2022	22 Dec 2021

Moisture Content

Method: ME-(AU)-ENVJAN002

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP01_0.0-0.2	SE227223.001	LB239620	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	25 Dec 2021	22 Dec 2021
QZ01	SE227223.002	LB239620	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	25 Dec 2021	22 Dec 2021
TP02_0.0-0.1	SE227223.003	LB239620	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	25 Dec 2021	22 Dec 2021
TP03_0.0-0.2	SE227223.004	LB239620	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	25 Dec 2021	22 Dec 2021
TP04_0.0-0.1	SE227223.005	LB239620	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	25 Dec 2021	22 Dec 2021
TP05_0.0-0.1	SE227223.006	LB239620	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	25 Dec 2021	22 Dec 2021
TP06_0.4-0.5	SE227223.007	LB239620	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	25 Dec 2021	22 Dec 2021
TP06_0.7-0.9	SE227223.008	LB239620	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	25 Dec 2021	22 Dec 2021
TP07_0.2-0.3	SE227223.009	LB239620	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	25 Dec 2021	22 Dec 2021
TP07_0.9-1.1	SE227223.010	LB239620	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	25 Dec 2021	22 Dec 2021
TP08_0.4-0.5	SE227223.011	LB239620	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	25 Dec 2021	22 Dec 2021
QZ02	SE227223.012	LB239620	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	25 Dec 2021	22 Dec 2021
TP08_0.8-0.9	SE227223.013	LB239620	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	25 Dec 2021	22 Dec 2021
TP10_0.1-0.2	SE227223.014	LB239620	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	25 Dec 2021	22 Dec 2021
TP11_0.1-0.2	SE227223.015	LB239620	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	25 Dec 2021	22 Dec 2021
TP12_0.0-0.2	SE227223.016	LB239620	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	25 Dec 2021	22 Dec 2021
TP13_0.0-0.1	SE227223.017	LB239620	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	25 Dec 2021	22 Dec 2021
TP14_0.0-0.1	SE227223.018	LB239620	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	25 Dec 2021	22 Dec 2021
TP15_0.0-0.2	SE227223.019	LB239623	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	25 Dec 2021	22 Dec 2021
QZ03	SE227223.020	LB239623	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	25 Dec 2021	22 Dec 2021
TP16_0.0-0.2	SE227223.021	LB239623	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	25 Dec 2021	22 Dec 2021
TP17_0.0-0.2	SE227223.022	LB239623	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	25 Dec 2021	22 Dec 2021
TP18_0.0-0.2	SE227223.023	LB239623	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	25 Dec 2021	22 Dec 2021
TP19_0.0-0.2	SE227223.024	LB239623	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	25 Dec 2021	22 Dec 2021
TP20_0.0-0.2	SE227223.025	LB239623	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	25 Dec 2021	22 Dec 2021
TP21_0.0-0.2	SE227223.026	LB239623	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	25 Dec 2021	22 Dec 2021
TP22_0.0-0.2	SE227223.027	LB239623	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	25 Dec 2021	22 Dec 2021
TP23_0.1-0.3	SE227223.028	LB239623	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	25 Dec 2021	22 Dec 2021
TP24_0.1-0.3	SE227223.029	LB239623	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	25 Dec 2021	22 Dec 2021
TP25_0.0-0.1	SE227223.030	LB239623	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	25 Dec 2021	22 Dec 2021
TP26_0.1-0.3	SE227223.031	LB239623	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	25 Dec 2021	22 Dec 2021
TP27_0.2-0.4	SE227223.032	LB239623	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	25 Dec 2021	22 Dec 2021
TP28_0.1-0.3	SE227223.033	LB239623	14 Dec 2021	16 Dec 2021	28 Dec 2021	20 Dec 2021	25 Dec 2021	22 Dec 2021
TP29_0.0-0.1	SE227223.034	LB239623	14 Dec 2021	16 Dec 2021	28 Dec 2021	20 Dec 2021	25 Dec 2021	22 Dec 2021
TP30_0.0-0.1	SE227223.035	LB239623	14 Dec 2021	16 Dec 2021	28 Dec 2021	20 Dec 2021	25 Dec 2021	22 Dec 2021
TP31_0.0-0.2	SE227223.036	LB239623	14 Dec 2021	16 Dec 2021	28 Dec 2021	20 Dec 2021	25 Dec 2021	22 Dec 2021
TP32_0.1-0.2	SE227223.037	LB239623	14 Dec 2021	16 Dec 2021	28 Dec 2021	20 Dec 2021	25 Dec 2021	22 Dec 2021
TP33_0.1-0.2	SE227223.038	LB239623	14 Dec 2021	16 Dec 2021	28 Dec 2021	20 Dec 2021	25 Dec 2021	22 Dec 2021
QZ04	SE227223.039	LB239623	14 Dec 2021	16 Dec 2021	28 Dec 2021	20 Dec 2021	25 Dec 2021	22 Dec 2021
TP34_0.0-0.1	SE227223.040	LB239623	14 Dec 2021	16 Dec 2021	28 Dec 2021	20 Dec 2021	25 Dec 2021	22 Dec 2021
TP35_0.2-0.3	SE227223.041	LB239623	14 Dec 2021	16 Dec 2021	28 Dec 2021	20 Dec 2021	25 Dec 2021	22 Dec 2021
TP36_0.0-0.1	SE227223.042	LB239623	14 Dec 2021	16 Dec 2021	28 Dec 2021	20 Dec 2021	25 Dec 2021	22 Dec 2021
TP37_0.0-0.2	SE227223.043	LB239623	14 Dec 2021	16 Dec 2021	28 Dec 2021	20 Dec 2021	25 Dec 2021	22 Dec 2021
TP38_0.1-0.3	SE227223.044	LB239625	14 Dec 2021	16 Dec 2021	28 Dec 2021	20 Dec 2021	25 Dec 2021	22 Dec 2021
TP39_0.0-0.2	SE227223.045	LB239625	14 Dec 2021	16 Dec 2021	28 Dec 2021	20 Dec 2021	25 Dec 2021	22 Dec 2021
TP40_0.0-0.1	SE227223.046	LB239625	14 Dec 2021	16 Dec 2021	28 Dec 2021	20 Dec 2021	25 Dec 2021	22 Dec 2021
TP41_0.1-0.2	SE227223.047	LB239625	14 Dec 2021	16 Dec 2021	28 Dec 2021	20 Dec 2021	25 Dec 2021	22 Dec 2021
TP42_0.2-0.4	SE227223.048	LB239625	14 Dec 2021	16 Dec 2021	28 Dec 2021	20 Dec 2021	25 Dec 2021	22 Dec 2021
QZ05	SE227223.049	LB239625	14 Dec 2021	16 Dec 2021	28 Dec 2021	20 Dec 2021	25 Dec 2021	22 Dec 2021
TP43_0.1-0.2	SE227223.050	LB239625	14 Dec 2021	16 Dec 2021	28 Dec 2021	20 Dec 2021	25 Dec 2021	22 Dec 2021
TP44_0.0-0.2	SE227223.051	LB239625	14 Dec 2021	16 Dec 2021	28 Dec 2021	20 Dec 2021	25 Dec 2021	22 Dec 2021
TP45_0.0-0.2	SE227223.052	LB239625	14 Dec 2021	16 Dec 2021	28 Dec 2021	20 Dec 2021	25 Dec 2021	22 Dec 2021
TP46_0.1-0.3	SE227223.053	LB239625	15 Dec 2021	16 Dec 2021	29 Dec 2021	20 Dec 2021	25 Dec 2021	22 Dec 2021
TP47_0.0-0.1	SE227223.054	LB239625	15 Dec 2021	16 Dec 2021	29 Dec 2021	20 Dec 2021	25 Dec 2021	22 Dec 2021
TP48_0.0-0.1	SE227223.055	LB239625	15 Dec 2021	16 Dec 2021	29 Dec 2021	20 Dec 2021	25 Dec 2021	22 Dec 2021

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)-ENVJAN002

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP49_0.0-0.2	SE227223.056	LB239625	15 Dec 2021	16 Dec 2021	29 Dec 2021	20 Dec 2021	25 Dec 2021	22 Dec 2021
TP49_0.4-0.5	SE227223.057	LB239625	15 Dec 2021	16 Dec 2021	29 Dec 2021	20 Dec 2021	25 Dec 2021	22 Dec 2021
QZ06	SE227223.058	LB239625	15 Dec 2021	16 Dec 2021	29 Dec 2021	20 Dec 2021	25 Dec 2021	22 Dec 2021
TP51_0.0-0.2	SE227223.059	LB239625	15 Dec 2021	16 Dec 2021	29 Dec 2021	20 Dec 2021	25 Dec 2021	22 Dec 2021
TP52_0.0-0.1	SE227223.060	LB239625	15 Dec 2021	16 Dec 2021	29 Dec 2021	20 Dec 2021	25 Dec 2021	22 Dec 2021
TP53_0.0-0.2	SE227223.061	LB239625	15 Dec 2021	16 Dec 2021	29 Dec 2021	20 Dec 2021	25 Dec 2021	22 Dec 2021
TP54_0.0-0.2	SE227223.062	LB239625	15 Dec 2021	16 Dec 2021	29 Dec 2021	20 Dec 2021	25 Dec 2021	22 Dec 2021
Trip Blank 1	SE227223.067	LB239625	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	25 Dec 2021	22 Dec 2021

OC Pesticides In Soil

Method: ME-(AU)-ENVJAN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP01_0.0-0.2	SE227223.001	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
QZ01	SE227223.002	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP02_0.0-0.1	SE227223.003	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP03_0.0-0.2	SE227223.004	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP04_0.0-0.1	SE227223.005	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP05_0.0-0.1	SE227223.006	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP06_0.4-0.5	SE227223.007	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP06_0.7-0.9	SE227223.008	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP07_0.2-0.3	SE227223.009	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP07_0.9-1.1	SE227223.010	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP08_0.4-0.5	SE227223.011	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
QZ02	SE227223.012	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP08_0.8-0.9	SE227223.013	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP10_0.1-0.2	SE227223.014	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP11_0.1-0.2	SE227223.015	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP12_0.0-0.2	SE227223.016	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP13_0.0-0.1	SE227223.017	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP14_0.0-0.1	SE227223.018	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP15_0.0-0.2	SE227223.019	LB239580	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
QZ03	SE227223.020	LB239580	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP16_0.0-0.2	SE227223.021	LB239580	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP17_0.0-0.2	SE227223.022	LB239580	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP18_0.0-0.2	SE227223.023	LB239580	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP19_0.0-0.2	SE227223.024	LB239580	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP20_0.0-0.2	SE227223.025	LB239580	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP21_0.0-0.2	SE227223.026	LB239580	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP22_0.0-0.2	SE227223.027	LB239580	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP34_0.0-0.1	SE227223.040	LB239580	14 Dec 2021	16 Dec 2021	28 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP35_0.2-0.3	SE227223.041	LB239580	14 Dec 2021	16 Dec 2021	28 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP36_0.0-0.1	SE227223.042	LB239580	14 Dec 2021	16 Dec 2021	28 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP37_0.0-0.2	SE227223.043	LB239580	14 Dec 2021	16 Dec 2021	28 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP38_0.1-0.3	SE227223.044	LB239581	14 Dec 2021	16 Dec 2021	28 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP39_0.0-0.2	SE227223.045	LB239581	14 Dec 2021	16 Dec 2021	28 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP40_0.0-0.1	SE227223.046	LB239581	14 Dec 2021	16 Dec 2021	28 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP41_0.1-0.2	SE227223.047	LB239581	14 Dec 2021	16 Dec 2021	28 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP42_0.2-0.4	SE227223.048	LB239581	14 Dec 2021	16 Dec 2021	28 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
QZ05	SE227223.049	LB239581	14 Dec 2021	16 Dec 2021	28 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP43_0.1-0.2	SE227223.050	LB239581	14 Dec 2021	16 Dec 2021	28 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP44_0.0-0.2	SE227223.051	LB239581	14 Dec 2021	16 Dec 2021	28 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP45_0.0-0.2	SE227223.052	LB239581	14 Dec 2021	16 Dec 2021	28 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP46_0.1-0.3	SE227223.053	LB239581	15 Dec 2021	16 Dec 2021	29 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP47_0.0-0.1	SE227223.054	LB239581	15 Dec 2021	16 Dec 2021	29 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP48_0.0-0.1	SE227223.055	LB239581	15 Dec 2021	16 Dec 2021	29 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP49_0.0-0.2	SE227223.056	LB239581	15 Dec 2021	16 Dec 2021	29 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP49_0.4-0.5	SE227223.057	LB239581	15 Dec 2021	16 Dec 2021	29 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
QZ06	SE227223.058	LB239581	15 Dec 2021	16 Dec 2021	29 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP51_0.0-0.2	SE227223.059	LB239581	15 Dec 2021	16 Dec 2021	29 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP52_0.0-0.1	SE227223.060	LB239581	15 Dec 2021	16 Dec 2021	29 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP53_0.0-0.2	SE227223.061	LB239581	15 Dec 2021	16 Dec 2021	29 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021



HOLDING TIME SUMMARY

SE227223 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

OC Pesticides in Soil (continued)

Method: ME-(AU)-ENVJAN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP54_0.0-0.2	SE227223.062	LB239581	15 Dec 2021	16 Dec 2021	29 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021

OP Pesticides in Soil

Method: ME-(AU)-ENVJAN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP01_0.0-0.2	SE227223.001	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
QZ01	SE227223.002	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP02_0.0-0.1	SE227223.003	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP03_0.0-0.2	SE227223.004	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP04_0.0-0.1	SE227223.005	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP05_0.0-0.1	SE227223.006	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP06_0.4-0.5	SE227223.007	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP06_0.7-0.9	SE227223.008	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP07_0.2-0.3	SE227223.009	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP07_0.9-1.1	SE227223.010	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP08_0.4-0.5	SE227223.011	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
QZ02	SE227223.012	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP08_0.8-0.9	SE227223.013	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP10_0.1-0.2	SE227223.014	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP11_0.1-0.2	SE227223.015	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP12_0.0-0.2	SE227223.016	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP13_0.0-0.1	SE227223.017	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP14_0.0-0.1	SE227223.018	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP15_0.0-0.2	SE227223.019	LB239580	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
QZ03	SE227223.020	LB239580	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP16_0.0-0.2	SE227223.021	LB239580	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP17_0.0-0.2	SE227223.022	LB239580	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP18_0.0-0.2	SE227223.023	LB239580	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP19_0.0-0.2	SE227223.024	LB239580	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP20_0.0-0.2	SE227223.025	LB239580	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP21_0.0-0.2	SE227223.026	LB239580	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP22_0.0-0.2	SE227223.027	LB239580	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP34_0.0-0.1	SE227223.040	LB239580	14 Dec 2021	16 Dec 2021	28 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP35_0.2-0.3	SE227223.041	LB239580	14 Dec 2021	16 Dec 2021	28 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP36_0.0-0.1	SE227223.042	LB239580	14 Dec 2021	16 Dec 2021	28 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP37_0.0-0.2	SE227223.043	LB239580	14 Dec 2021	16 Dec 2021	28 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP38_0.1-0.3	SE227223.044	LB239581	14 Dec 2021	16 Dec 2021	28 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP39_0.0-0.2	SE227223.045	LB239581	14 Dec 2021	16 Dec 2021	28 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP40_0.0-0.1	SE227223.046	LB239581	14 Dec 2021	16 Dec 2021	28 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP41_0.1-0.2	SE227223.047	LB239581	14 Dec 2021	16 Dec 2021	28 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP42_0.2-0.4	SE227223.048	LB239581	14 Dec 2021	16 Dec 2021	28 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
QZ05	SE227223.049	LB239581	14 Dec 2021	16 Dec 2021	28 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP43_0.1-0.2	SE227223.050	LB239581	14 Dec 2021	16 Dec 2021	28 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP44_0.0-0.2	SE227223.051	LB239581	14 Dec 2021	16 Dec 2021	28 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP45_0.0-0.2	SE227223.052	LB239581	14 Dec 2021	16 Dec 2021	28 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP46_0.1-0.3	SE227223.053	LB239581	15 Dec 2021	16 Dec 2021	29 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP47_0.0-0.1	SE227223.054	LB239581	15 Dec 2021	16 Dec 2021	29 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP48_0.0-0.1	SE227223.055	LB239581	15 Dec 2021	16 Dec 2021	29 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP49_0.0-0.2	SE227223.056	LB239581	15 Dec 2021	16 Dec 2021	29 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP49_0.4-0.5	SE227223.057	LB239581	15 Dec 2021	16 Dec 2021	29 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
QZ06	SE227223.058	LB239581	15 Dec 2021	16 Dec 2021	29 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP51_0.0-0.2	SE227223.059	LB239581	15 Dec 2021	16 Dec 2021	29 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP52_0.0-0.1	SE227223.060	LB239581	15 Dec 2021	16 Dec 2021	29 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP53_0.0-0.2	SE227223.061	LB239581	15 Dec 2021	16 Dec 2021	29 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP54_0.0-0.2	SE227223.062	LB239581	15 Dec 2021	16 Dec 2021	29 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-ENVJAN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP01_0.0-0.2	SE227223.001	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
QZ01	SE227223.002	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP02_0.0-0.1	SE227223.003	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP03_0.0-0.2	SE227223.004	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021

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)-ENVJAN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP04_0.0-0.1	SE227223.005	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP05_0.0-0.1	SE227223.006	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP06_0.4-0.5	SE227223.007	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP06_0.7-0.9	SE227223.008	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP07_0.2-0.3	SE227223.009	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP07_0.9-1.1	SE227223.010	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP08_0.4-0.5	SE227223.011	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
QZ02	SE227223.012	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP08_0.8-0.9	SE227223.013	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP10_0.1-0.2	SE227223.014	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP11_0.1-0.2	SE227223.015	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP12_0.0-0.2	SE227223.016	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP13_0.0-0.1	SE227223.017	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP14_0.0-0.1	SE227223.018	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP15_0.0-0.2	SE227223.019	LB239580	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
QZ03	SE227223.020	LB239580	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP16_0.0-0.2	SE227223.021	LB239580	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP17_0.0-0.2	SE227223.022	LB239580	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP18_0.0-0.2	SE227223.023	LB239580	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP19_0.0-0.2	SE227223.024	LB239580	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP20_0.0-0.2	SE227223.025	LB239580	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP21_0.0-0.2	SE227223.026	LB239580	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP22_0.0-0.2	SE227223.027	LB239580	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP34_0.0-0.1	SE227223.040	LB239580	14 Dec 2021	16 Dec 2021	28 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP35_0.2-0.3	SE227223.041	LB239580	14 Dec 2021	16 Dec 2021	28 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP36_0.0-0.1	SE227223.042	LB239580	14 Dec 2021	16 Dec 2021	28 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP37_0.0-0.2	SE227223.043	LB239580	14 Dec 2021	16 Dec 2021	28 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP38_0.1-0.3	SE227223.044	LB239581	14 Dec 2021	16 Dec 2021	28 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP39_0.0-0.2	SE227223.045	LB239581	14 Dec 2021	16 Dec 2021	28 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP40_0.0-0.1	SE227223.046	LB239581	14 Dec 2021	16 Dec 2021	28 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP41_0.1-0.2	SE227223.047	LB239581	14 Dec 2021	16 Dec 2021	28 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP42_0.2-0.4	SE227223.048	LB239581	14 Dec 2021	16 Dec 2021	28 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
QZ05	SE227223.049	LB239581	14 Dec 2021	16 Dec 2021	28 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP43_0.1-0.2	SE227223.050	LB239581	14 Dec 2021	16 Dec 2021	28 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP44_0.0-0.2	SE227223.051	LB239581	14 Dec 2021	16 Dec 2021	28 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP45_0.0-0.2	SE227223.052	LB239581	14 Dec 2021	16 Dec 2021	28 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP46_0.1-0.3	SE227223.053	LB239581	15 Dec 2021	16 Dec 2021	29 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP47_0.0-0.1	SE227223.054	LB239581	15 Dec 2021	16 Dec 2021	29 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP48_0.0-0.1	SE227223.055	LB239581	15 Dec 2021	16 Dec 2021	29 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP49_0.0-0.2	SE227223.056	LB239581	15 Dec 2021	16 Dec 2021	29 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP49_0.4-0.5	SE227223.057	LB239581	15 Dec 2021	16 Dec 2021	29 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
QZ06	SE227223.058	LB239581	15 Dec 2021	16 Dec 2021	29 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP51_0.0-0.2	SE227223.059	LB239581	15 Dec 2021	16 Dec 2021	29 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP52_0.0-0.1	SE227223.060	LB239581	15 Dec 2021	16 Dec 2021	29 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP53_0.0-0.2	SE227223.061	LB239581	15 Dec 2021	16 Dec 2021	29 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP54_0.0-0.2	SE227223.062	LB239581	15 Dec 2021	16 Dec 2021	29 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021

PCBs in Soil

Method: ME-(AU)-ENVJAN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP01_0.0-0.2	SE227223.001	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
QZ01	SE227223.002	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP02_0.0-0.1	SE227223.003	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP03_0.0-0.2	SE227223.004	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP04_0.0-0.1	SE227223.005	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP05_0.0-0.1	SE227223.006	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP06_0.4-0.5	SE227223.007	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP06_0.7-0.9	SE227223.008	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP07_0.2-0.3	SE227223.009	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP07_0.9-1.1	SE227223.010	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP08_0.4-0.5	SE227223.011	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021

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
QZ02	SE227223.012	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP08_0.8-0.9	SE227223.013	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP10_0.1-0.2	SE227223.014	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP11_0.1-0.2	SE227223.015	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP12_0.0-0.2	SE227223.016	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP13_0.0-0.1	SE227223.017	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP14_0.0-0.1	SE227223.018	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP15_0.0-0.2	SE227223.019	LB239580	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
QZ03	SE227223.020	LB239580	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP16_0.0-0.2	SE227223.021	LB239580	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP17_0.0-0.2	SE227223.022	LB239580	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP18_0.0-0.2	SE227223.023	LB239580	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP19_0.0-0.2	SE227223.024	LB239580	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP20_0.0-0.2	SE227223.025	LB239580	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP21_0.0-0.2	SE227223.026	LB239580	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP22_0.0-0.2	SE227223.027	LB239580	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP34_0.0-0.1	SE227223.040	LB239580	14 Dec 2021	16 Dec 2021	28 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP35_0.2-0.3	SE227223.041	LB239580	14 Dec 2021	16 Dec 2021	28 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP36_0.0-0.1	SE227223.042	LB239580	14 Dec 2021	16 Dec 2021	28 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP37_0.0-0.2	SE227223.043	LB239580	14 Dec 2021	16 Dec 2021	28 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP38_0.1-0.3	SE227223.044	LB239581	14 Dec 2021	16 Dec 2021	28 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP39_0.0-0.2	SE227223.045	LB239581	14 Dec 2021	16 Dec 2021	28 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP40_0.0-0.1	SE227223.046	LB239581	14 Dec 2021	16 Dec 2021	28 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP41_0.1-0.2	SE227223.047	LB239581	14 Dec 2021	16 Dec 2021	28 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP42_0.2-0.4	SE227223.048	LB239581	14 Dec 2021	16 Dec 2021	28 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
QZ05	SE227223.049	LB239581	14 Dec 2021	16 Dec 2021	28 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP43_0.1-0.2	SE227223.050	LB239581	14 Dec 2021	16 Dec 2021	28 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP44_0.0-0.2	SE227223.051	LB239581	14 Dec 2021	16 Dec 2021	28 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP45_0.0-0.2	SE227223.052	LB239581	14 Dec 2021	16 Dec 2021	28 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP46_0.1-0.3	SE227223.053	LB239581	15 Dec 2021	16 Dec 2021	29 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP47_0.0-0.1	SE227223.054	LB239581	15 Dec 2021	16 Dec 2021	29 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP48_0.0-0.1	SE227223.055	LB239581	15 Dec 2021	16 Dec 2021	29 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP49_0.0-0.2	SE227223.056	LB239581	15 Dec 2021	16 Dec 2021	29 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP49_0.4-0.5	SE227223.057	LB239581	15 Dec 2021	16 Dec 2021	29 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
QZ06	SE227223.058	LB239581	15 Dec 2021	16 Dec 2021	29 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP51_0.0-0.2	SE227223.059	LB239581	15 Dec 2021	16 Dec 2021	29 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP52_0.0-0.1	SE227223.060	LB239581	15 Dec 2021	16 Dec 2021	29 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP53_0.0-0.2	SE227223.061	LB239581	15 Dec 2021	16 Dec 2021	29 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP54_0.0-0.2	SE227223.062	LB239581	15 Dec 2021	16 Dec 2021	29 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021

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
TP01_0.0-0.2	SE227223.001	LB239743	13 Dec 2021	16 Dec 2021	11 Jun 2022	21 Dec 2021	11 Jun 2022	23 Dec 2021
QZ01	SE227223.002	LB239743	13 Dec 2021	16 Dec 2021	11 Jun 2022	21 Dec 2021	11 Jun 2022	23 Dec 2021
TP02_0.0-0.1	SE227223.003	LB239743	13 Dec 2021	16 Dec 2021	11 Jun 2022	21 Dec 2021	11 Jun 2022	23 Dec 2021
TP03_0.0-0.2	SE227223.004	LB239743	13 Dec 2021	16 Dec 2021	11 Jun 2022	21 Dec 2021	11 Jun 2022	23 Dec 2021
TP04_0.0-0.1	SE227223.005	LB239743	13 Dec 2021	16 Dec 2021	11 Jun 2022	21 Dec 2021	11 Jun 2022	23 Dec 2021
TP05_0.0-0.1	SE227223.006	LB239743	13 Dec 2021	16 Dec 2021	11 Jun 2022	21 Dec 2021	11 Jun 2022	23 Dec 2021
TP06_0.4-0.5	SE227223.007	LB239743	13 Dec 2021	16 Dec 2021	11 Jun 2022	21 Dec 2021	11 Jun 2022	23 Dec 2021
TP06_0.7-0.9	SE227223.008	LB239743	13 Dec 2021	16 Dec 2021	11 Jun 2022	21 Dec 2021	11 Jun 2022	23 Dec 2021
TP07_0.2-0.3	SE227223.009	LB239743	13 Dec 2021	16 Dec 2021	11 Jun 2022	21 Dec 2021	11 Jun 2022	23 Dec 2021
TP07_0.9-1.1	SE227223.010	LB239743	13 Dec 2021	16 Dec 2021	11 Jun 2022	21 Dec 2021	11 Jun 2022	23 Dec 2021
TP08_0.4-0.5	SE227223.011	LB239743	13 Dec 2021	16 Dec 2021	11 Jun 2022	21 Dec 2021	11 Jun 2022	23 Dec 2021
QZ02	SE227223.012	LB239743	13 Dec 2021	16 Dec 2021	11 Jun 2022	21 Dec 2021	11 Jun 2022	23 Dec 2021
TP08_0.8-0.9	SE227223.013	LB239743	13 Dec 2021	16 Dec 2021	11 Jun 2022	21 Dec 2021	11 Jun 2022	23 Dec 2021
TP10_0.1-0.2	SE227223.014	LB239743	13 Dec 2021	16 Dec 2021	11 Jun 2022	21 Dec 2021	11 Jun 2022	23 Dec 2021
TP11_0.1-0.2	SE227223.015	LB239743	13 Dec 2021	16 Dec 2021	11 Jun 2022	21 Dec 2021	11 Jun 2022	23 Dec 2021
TP12_0.0-0.2	SE227223.016	LB239743	13 Dec 2021	16 Dec 2021	11 Jun 2022	21 Dec 2021	11 Jun 2022	23 Dec 2021
TP13_0.0-0.1	SE227223.017	LB239743	13 Dec 2021	16 Dec 2021	11 Jun 2022	21 Dec 2021	11 Jun 2022	23 Dec 2021
TP14_0.0-0.1	SE227223.018	LB239743	13 Dec 2021	16 Dec 2021	11 Jun 2022	21 Dec 2021	11 Jun 2022	23 Dec 2021

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)-ENVJAN040/AN320

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP15_0.0-0.2	SE227223.019	LB239743	13 Dec 2021	16 Dec 2021	11 Jun 2022	21 Dec 2021	11 Jun 2022	23 Dec 2021
QZ03	SE227223.020	LB239745	13 Dec 2021	16 Dec 2021	11 Jun 2022	21 Dec 2021	11 Jun 2022	23 Dec 2021
TP16_0.0-0.2	SE227223.021	LB239745	13 Dec 2021	16 Dec 2021	11 Jun 2022	21 Dec 2021	11 Jun 2022	23 Dec 2021
TP17_0.0-0.2	SE227223.022	LB239745	13 Dec 2021	16 Dec 2021	11 Jun 2022	21 Dec 2021	11 Jun 2022	23 Dec 2021
TP18_0.0-0.2	SE227223.023	LB239745	13 Dec 2021	16 Dec 2021	11 Jun 2022	21 Dec 2021	11 Jun 2022	23 Dec 2021
TP19_0.0-0.2	SE227223.024	LB239745	13 Dec 2021	16 Dec 2021	11 Jun 2022	21 Dec 2021	11 Jun 2022	23 Dec 2021
TP20_0.0-0.2	SE227223.025	LB239745	13 Dec 2021	16 Dec 2021	11 Jun 2022	21 Dec 2021	11 Jun 2022	23 Dec 2021
TP21_0.0-0.2	SE227223.026	LB239745	13 Dec 2021	16 Dec 2021	11 Jun 2022	21 Dec 2021	11 Jun 2022	23 Dec 2021
TP22_0.0-0.2	SE227223.027	LB239745	13 Dec 2021	16 Dec 2021	11 Jun 2022	21 Dec 2021	11 Jun 2022	23 Dec 2021
TP23_0.1-0.3	SE227223.028	LB239745	13 Dec 2021	16 Dec 2021	11 Jun 2022	21 Dec 2021	11 Jun 2022	23 Dec 2021
TP24_0.1-0.3	SE227223.029	LB239745	13 Dec 2021	16 Dec 2021	11 Jun 2022	21 Dec 2021	11 Jun 2022	23 Dec 2021
TP25_0.0-0.1	SE227223.030	LB239745	13 Dec 2021	16 Dec 2021	11 Jun 2022	21 Dec 2021	11 Jun 2022	23 Dec 2021
TP26_0.1-0.3	SE227223.031	LB239745	13 Dec 2021	16 Dec 2021	11 Jun 2022	21 Dec 2021	11 Jun 2022	23 Dec 2021
TP27_0.2-0.4	SE227223.032	LB239745	13 Dec 2021	16 Dec 2021	11 Jun 2022	21 Dec 2021	11 Jun 2022	23 Dec 2021
TP28_0.1-0.3	SE227223.033	LB239745	14 Dec 2021	16 Dec 2021	12 Jun 2022	21 Dec 2021	12 Jun 2022	23 Dec 2021
TP29_0.0-0.1	SE227223.034	LB239745	14 Dec 2021	16 Dec 2021	12 Jun 2022	21 Dec 2021	12 Jun 2022	23 Dec 2021
TP30_0.0-0.1	SE227223.035	LB239745	14 Dec 2021	16 Dec 2021	12 Jun 2022	21 Dec 2021	12 Jun 2022	23 Dec 2021
TP31_0.0-0.2	SE227223.036	LB239745	14 Dec 2021	16 Dec 2021	12 Jun 2022	21 Dec 2021	12 Jun 2022	23 Dec 2021
TP32_0.1-0.2	SE227223.037	LB239745	14 Dec 2021	16 Dec 2021	12 Jun 2022	21 Dec 2021	12 Jun 2022	23 Dec 2021
TP33_0.1-0.2	SE227223.038	LB239745	14 Dec 2021	16 Dec 2021	12 Jun 2022	21 Dec 2021	12 Jun 2022	23 Dec 2021
QZ04	SE227223.039	LB239747	14 Dec 2021	16 Dec 2021	12 Jun 2022	21 Dec 2021	12 Jun 2022	23 Dec 2021
TP34_0.0-0.1	SE227223.040	LB239747	14 Dec 2021	16 Dec 2021	12 Jun 2022	21 Dec 2021	12 Jun 2022	23 Dec 2021
TP35_0.2-0.3	SE227223.041	LB239747	14 Dec 2021	16 Dec 2021	12 Jun 2022	21 Dec 2021	12 Jun 2022	23 Dec 2021
TP36_0.0-0.1	SE227223.042	LB239747	14 Dec 2021	16 Dec 2021	12 Jun 2022	21 Dec 2021	12 Jun 2022	23 Dec 2021
TP37_0.0-0.2	SE227223.043	LB239747	14 Dec 2021	16 Dec 2021	12 Jun 2022	21 Dec 2021	12 Jun 2022	23 Dec 2021
TP38_0.1-0.3	SE227223.044	LB239747	14 Dec 2021	16 Dec 2021	12 Jun 2022	21 Dec 2021	12 Jun 2022	23 Dec 2021
TP39_0.0-0.2	SE227223.045	LB239747	14 Dec 2021	16 Dec 2021	12 Jun 2022	21 Dec 2021	12 Jun 2022	23 Dec 2021
TP40_0.0-0.1	SE227223.046	LB239747	14 Dec 2021	16 Dec 2021	12 Jun 2022	21 Dec 2021	12 Jun 2022	23 Dec 2021
TP41_0.1-0.2	SE227223.047	LB239747	14 Dec 2021	16 Dec 2021	12 Jun 2022	21 Dec 2021	12 Jun 2022	23 Dec 2021
TP42_0.2-0.4	SE227223.048	LB239747	14 Dec 2021	16 Dec 2021	12 Jun 2022	21 Dec 2021	12 Jun 2022	23 Dec 2021
QZ05	SE227223.049	LB239747	14 Dec 2021	16 Dec 2021	12 Jun 2022	21 Dec 2021	12 Jun 2022	23 Dec 2021
TP43_0.1-0.2	SE227223.050	LB239747	14 Dec 2021	16 Dec 2021	12 Jun 2022	21 Dec 2021	12 Jun 2022	23 Dec 2021
TP44_0.0-0.2	SE227223.051	LB239747	14 Dec 2021	16 Dec 2021	12 Jun 2022	21 Dec 2021	12 Jun 2022	23 Dec 2021
TP45_0.0-0.2	SE227223.052	LB239747	14 Dec 2021	16 Dec 2021	12 Jun 2022	21 Dec 2021	12 Jun 2022	23 Dec 2021
TP46_0.1-0.3	SE227223.053	LB239747	15 Dec 2021	16 Dec 2021	13 Jun 2022	21 Dec 2021	13 Jun 2022	23 Dec 2021
TP47_0.0-0.1	SE227223.054	LB239747	15 Dec 2021	16 Dec 2021	13 Jun 2022	21 Dec 2021	13 Jun 2022	23 Dec 2021
TP48_0.0-0.1	SE227223.055	LB239747	15 Dec 2021	16 Dec 2021	13 Jun 2022	21 Dec 2021	13 Jun 2022	23 Dec 2021
TP49_0.0-0.2	SE227223.056	LB239747	15 Dec 2021	16 Dec 2021	13 Jun 2022	21 Dec 2021	13 Jun 2022	23 Dec 2021
TP49_0.4-0.5	SE227223.057	LB239747	15 Dec 2021	16 Dec 2021	13 Jun 2022	21 Dec 2021	13 Jun 2022	23 Dec 2021
QZ06	SE227223.058	LB239760	15 Dec 2021	16 Dec 2021	13 Jun 2022	21 Dec 2021	13 Jun 2022	22 Dec 2021
TP51_0.0-0.2	SE227223.059	LB239760	15 Dec 2021	16 Dec 2021	13 Jun 2022	21 Dec 2021	13 Jun 2022	22 Dec 2021
TP52_0.0-0.1	SE227223.060	LB239760	15 Dec 2021	16 Dec 2021	13 Jun 2022	21 Dec 2021	13 Jun 2022	22 Dec 2021
TP53_0.0-0.2	SE227223.061	LB239760	15 Dec 2021	16 Dec 2021	13 Jun 2022	21 Dec 2021	13 Jun 2022	22 Dec 2021
TP54_0.0-0.2	SE227223.062	LB239760	15 Dec 2021	16 Dec 2021	13 Jun 2022	21 Dec 2021	13 Jun 2022	22 Dec 2021

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-ENVJAN403

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP01_0.0-0.2	SE227223.001	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
QZ01	SE227223.002	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP02_0.0-0.1	SE227223.003	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP03_0.0-0.2	SE227223.004	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP04_0.0-0.1	SE227223.005	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP05_0.0-0.1	SE227223.006	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP06_0.4-0.5	SE227223.007	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	23 Dec 2021
TP06_0.7-0.9	SE227223.008	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	23 Dec 2021
TP07_0.2-0.3	SE227223.009	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	23 Dec 2021
TP07_0.9-1.1	SE227223.010	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP08_0.4-0.5	SE227223.011	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
QZ02	SE227223.012	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP08_0.8-0.9	SE227223.013	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021

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

TRH (Total Recoverable Hydrocarbons) in Soil (continued)

Method: ME-(AU)-ENVJAN403

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP10_0.1-0.2	SE227223.014	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP11_0.1-0.2	SE227223.015	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP12_0.0-0.2	SE227223.016	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	22 Dec 2021
TP13_0.0-0.1	SE227223.017	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	23 Dec 2021
TP14_0.0-0.1	SE227223.018	LB239579	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	23 Dec 2021
TP15_0.0-0.2	SE227223.019	LB239580	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	23 Dec 2021
QZ03	SE227223.020	LB239580	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	23 Dec 2021
TP16_0.0-0.2	SE227223.021	LB239580	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	23 Dec 2021
TP17_0.0-0.2	SE227223.022	LB239580	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	23 Dec 2021
TP18_0.0-0.2	SE227223.023	LB239580	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	23 Dec 2021
TP19_0.0-0.2	SE227223.024	LB239580	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	23 Dec 2021
TP20_0.0-0.2	SE227223.025	LB239580	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	23 Dec 2021
TP21_0.0-0.2	SE227223.026	LB239580	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	23 Dec 2021
TP22_0.0-0.2	SE227223.027	LB239580	13 Dec 2021	16 Dec 2021	27 Dec 2021	17 Dec 2021	26 Jan 2022	23 Dec 2021
TP34_0.0-0.1	SE227223.040	LB239580	14 Dec 2021	16 Dec 2021	28 Dec 2021	17 Dec 2021	26 Jan 2022	23 Dec 2021
TP35_0.2-0.3	SE227223.041	LB239580	14 Dec 2021	16 Dec 2021	28 Dec 2021	17 Dec 2021	26 Jan 2022	23 Dec 2021
TP36_0.0-0.1	SE227223.042	LB239580	14 Dec 2021	16 Dec 2021	28 Dec 2021	17 Dec 2021	26 Jan 2022	23 Dec 2021
TP37_0.0-0.2	SE227223.043	LB239580	14 Dec 2021	16 Dec 2021	28 Dec 2021	17 Dec 2021	26 Jan 2022	23 Dec 2021
TP38_0.1-0.3	SE227223.044	LB239581	14 Dec 2021	16 Dec 2021	28 Dec 2021	17 Dec 2021	26 Jan 2022	23 Dec 2021
TP39_0.0-0.2	SE227223.045	LB239581	14 Dec 2021	16 Dec 2021	28 Dec 2021	17 Dec 2021	26 Jan 2022	23 Dec 2021
TP40_0.0-0.1	SE227223.046	LB239581	14 Dec 2021	16 Dec 2021	28 Dec 2021	17 Dec 2021	26 Jan 2022	23 Dec 2021
TP41_0.1-0.2	SE227223.047	LB239581	14 Dec 2021	16 Dec 2021	28 Dec 2021	17 Dec 2021	26 Jan 2022	23 Dec 2021
TP42_0.2-0.4	SE227223.048	LB239581	14 Dec 2021	16 Dec 2021	28 Dec 2021	17 Dec 2021	26 Jan 2022	23 Dec 2021
QZ05	SE227223.049	LB239581	14 Dec 2021	16 Dec 2021	28 Dec 2021	17 Dec 2021	26 Jan 2022	23 Dec 2021
TP43_0.1-0.2	SE227223.050	LB239581	14 Dec 2021	16 Dec 2021	28 Dec 2021	17 Dec 2021	26 Jan 2022	23 Dec 2021
TP44_0.0-0.2	SE227223.051	LB239581	14 Dec 2021	16 Dec 2021	28 Dec 2021	17 Dec 2021	26 Jan 2022	23 Dec 2021
TP45_0.0-0.2	SE227223.052	LB239581	14 Dec 2021	16 Dec 2021	28 Dec 2021	17 Dec 2021	26 Jan 2022	23 Dec 2021
TP46_0.1-0.3	SE227223.053	LB239581	15 Dec 2021	16 Dec 2021	29 Dec 2021	17 Dec 2021	26 Jan 2022	23 Dec 2021
TP47_0.0-0.1	SE227223.054	LB239581	15 Dec 2021	16 Dec 2021	29 Dec 2021	17 Dec 2021	26 Jan 2022	23 Dec 2021
TP48_0.0-0.1	SE227223.055	LB239581	15 Dec 2021	16 Dec 2021	29 Dec 2021	17 Dec 2021	26 Jan 2022	23 Dec 2021
TP49_0.0-0.2	SE227223.056	LB239581	15 Dec 2021	16 Dec 2021	29 Dec 2021	17 Dec 2021	26 Jan 2022	23 Dec 2021
TP49_0.4-0.5	SE227223.057	LB239581	15 Dec 2021	16 Dec 2021	29 Dec 2021	17 Dec 2021	26 Jan 2022	23 Dec 2021
QZ06	SE227223.058	LB239581	15 Dec 2021	16 Dec 2021	29 Dec 2021	17 Dec 2021	26 Jan 2022	23 Dec 2021
TP51_0.0-0.2	SE227223.059	LB239581	15 Dec 2021	16 Dec 2021	29 Dec 2021	17 Dec 2021	26 Jan 2022	23 Dec 2021
TP52_0.0-0.1	SE227223.060	LB239581	15 Dec 2021	16 Dec 2021	29 Dec 2021	17 Dec 2021	26 Jan 2022	23 Dec 2021
TP53_0.0-0.2	SE227223.061	LB239581	15 Dec 2021	16 Dec 2021	29 Dec 2021	17 Dec 2021	26 Jan 2022	23 Dec 2021
TP54_0.0-0.2	SE227223.062	LB239581	15 Dec 2021	16 Dec 2021	29 Dec 2021	17 Dec 2021	26 Jan 2022	23 Dec 2021

VOC's in Soil

Method: ME-(AU)-ENVJAN403

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP01_0.0-0.2	SE227223.001	LB239626	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	27 Dec 2021	22 Dec 2021
QZ01	SE227223.002	LB239626	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	27 Dec 2021	22 Dec 2021
TP02_0.0-0.1	SE227223.003	LB239626	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	27 Dec 2021	22 Dec 2021
TP03_0.0-0.2	SE227223.004	LB239626	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	27 Dec 2021	22 Dec 2021
TP04_0.0-0.1	SE227223.005	LB239626	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	27 Dec 2021	22 Dec 2021
TP05_0.0-0.1	SE227223.006	LB239626	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	27 Dec 2021	22 Dec 2021
TP06_0.4-0.5	SE227223.007	LB239626	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	27 Dec 2021	22 Dec 2021
TP06_0.7-0.9	SE227223.008	LB239626	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	27 Dec 2021	22 Dec 2021
TP07_0.2-0.3	SE227223.009	LB239626	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	27 Dec 2021	22 Dec 2021
TP07_0.9-1.1	SE227223.010	LB239626	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	27 Dec 2021	22 Dec 2021
TP08_0.4-0.5	SE227223.011	LB239626	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	27 Dec 2021	22 Dec 2021
QZ02	SE227223.012	LB239626	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	27 Dec 2021	22 Dec 2021
TP08_0.8-0.9	SE227223.013	LB239626	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	27 Dec 2021	22 Dec 2021
TP10_0.1-0.2	SE227223.014	LB239626	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	27 Dec 2021	22 Dec 2021
TP11_0.1-0.2	SE227223.015	LB239626	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	27 Dec 2021	22 Dec 2021
TP12_0.0-0.2	SE227223.016	LB239626	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	27 Dec 2021	22 Dec 2021
TP13_0.0-0.1	SE227223.017	LB239626	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	27 Dec 2021	22 Dec 2021
TP14_0.0-0.1	SE227223.018	LB239626	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	27 Dec 2021	22 Dec 2021
TP15_0.0-0.2	SE227223.019	LB239627	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	27 Dec 2021	22 Dec 2021
QZ03	SE227223.020	LB239627	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	27 Dec 2021	22 Dec 2021

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)-ENVJAN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP16_0.0-0.2	SE227223.021	LB239627	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	27 Dec 2021	22 Dec 2021
TP17_0.0-0.2	SE227223.022	LB239627	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	27 Dec 2021	22 Dec 2021
TP18_0.0-0.2	SE227223.023	LB239627	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	27 Dec 2021	22 Dec 2021
TP19_0.0-0.2	SE227223.024	LB239627	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	27 Dec 2021	22 Dec 2021
TP20_0.0-0.2	SE227223.025	LB239627	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	27 Dec 2021	22 Dec 2021
TP21_0.0-0.2	SE227223.026	LB239627	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	27 Dec 2021	22 Dec 2021
TP22_0.0-0.2	SE227223.027	LB239627	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	27 Dec 2021	22 Dec 2021
TP34_0.0-0.1	SE227223.040	LB239627	14 Dec 2021	16 Dec 2021	28 Dec 2021	20 Dec 2021	28 Dec 2021	22 Dec 2021
TP35_0.2-0.3	SE227223.041	LB239627	14 Dec 2021	16 Dec 2021	28 Dec 2021	20 Dec 2021	28 Dec 2021	22 Dec 2021
TP36_0.0-0.1	SE227223.042	LB239627	14 Dec 2021	16 Dec 2021	28 Dec 2021	20 Dec 2021	28 Dec 2021	22 Dec 2021
TP37_0.0-0.2	SE227223.043	LB239627	14 Dec 2021	16 Dec 2021	28 Dec 2021	20 Dec 2021	28 Dec 2021	22 Dec 2021
TP38_0.1-0.3	SE227223.044	LB239628	14 Dec 2021	16 Dec 2021	28 Dec 2021	20 Dec 2021	28 Dec 2021	22 Dec 2021
TP39_0.0-0.2	SE227223.045	LB239628	14 Dec 2021	16 Dec 2021	28 Dec 2021	20 Dec 2021	28 Dec 2021	22 Dec 2021
TP40_0.0-0.1	SE227223.046	LB239628	14 Dec 2021	16 Dec 2021	28 Dec 2021	20 Dec 2021	28 Dec 2021	22 Dec 2021
TP41_0.1-0.2	SE227223.047	LB239628	14 Dec 2021	16 Dec 2021	28 Dec 2021	20 Dec 2021	28 Dec 2021	22 Dec 2021
TP42_0.2-0.4	SE227223.048	LB239628	14 Dec 2021	16 Dec 2021	28 Dec 2021	20 Dec 2021	28 Dec 2021	22 Dec 2021
QZ05	SE227223.049	LB239628	14 Dec 2021	16 Dec 2021	28 Dec 2021	20 Dec 2021	28 Dec 2021	22 Dec 2021
TP43_0.1-0.2	SE227223.050	LB239628	14 Dec 2021	16 Dec 2021	28 Dec 2021	20 Dec 2021	28 Dec 2021	22 Dec 2021
TP44_0.0-0.2	SE227223.051	LB239628	14 Dec 2021	16 Dec 2021	28 Dec 2021	20 Dec 2021	28 Dec 2021	22 Dec 2021
TP45_0.0-0.2	SE227223.052	LB239628	14 Dec 2021	16 Dec 2021	28 Dec 2021	20 Dec 2021	28 Dec 2021	22 Dec 2021
TP46_0.1-0.3	SE227223.053	LB239628	15 Dec 2021	16 Dec 2021	29 Dec 2021	20 Dec 2021	29 Dec 2021	22 Dec 2021
TP47_0.0-0.1	SE227223.054	LB239628	15 Dec 2021	16 Dec 2021	29 Dec 2021	20 Dec 2021	29 Dec 2021	22 Dec 2021
TP48_0.0-0.1	SE227223.055	LB239628	15 Dec 2021	16 Dec 2021	29 Dec 2021	20 Dec 2021	29 Dec 2021	22 Dec 2021
TP49_0.0-0.2	SE227223.056	LB239628	15 Dec 2021	16 Dec 2021	29 Dec 2021	20 Dec 2021	29 Dec 2021	22 Dec 2021
TP49_0.4-0.5	SE227223.057	LB239628	15 Dec 2021	16 Dec 2021	29 Dec 2021	20 Dec 2021	29 Dec 2021	22 Dec 2021
QZ06	SE227223.058	LB239628	15 Dec 2021	16 Dec 2021	29 Dec 2021	20 Dec 2021	29 Dec 2021	22 Dec 2021
TP51_0.0-0.2	SE227223.059	LB239628	15 Dec 2021	16 Dec 2021	29 Dec 2021	20 Dec 2021	29 Dec 2021	22 Dec 2021
TP52_0.0-0.1	SE227223.060	LB239628	15 Dec 2021	16 Dec 2021	29 Dec 2021	20 Dec 2021	29 Dec 2021	22 Dec 2021
TP53_0.0-0.2	SE227223.061	LB239628	15 Dec 2021	16 Dec 2021	29 Dec 2021	20 Dec 2021	29 Dec 2021	22 Dec 2021
TP54_0.0-0.2	SE227223.062	LB239628	15 Dec 2021	16 Dec 2021	29 Dec 2021	20 Dec 2021	29 Dec 2021	22 Dec 2021
Trip Blank 1	SE227223.067	LB239628	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	27 Dec 2021	22 Dec 2021
Trip Spike A	SE227223.068	LB239628	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	27 Dec 2021	22 Dec 2021

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-ENVJAN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP01_0.0-0.2	SE227223.001	LB239626	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	27 Dec 2021	22 Dec 2021
QZ01	SE227223.002	LB239626	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	27 Dec 2021	22 Dec 2021
TP02_0.0-0.1	SE227223.003	LB239626	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	27 Dec 2021	22 Dec 2021
TP03_0.0-0.2	SE227223.004	LB239626	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	27 Dec 2021	22 Dec 2021
TP04_0.0-0.1	SE227223.005	LB239626	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	27 Dec 2021	22 Dec 2021
TP05_0.0-0.1	SE227223.006	LB239626	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	27 Dec 2021	22 Dec 2021
TP06_0.4-0.5	SE227223.007	LB239626	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	27 Dec 2021	22 Dec 2021
TP06_0.7-0.9	SE227223.008	LB239626	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	27 Dec 2021	22 Dec 2021
TP07_0.2-0.3	SE227223.009	LB239626	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	27 Dec 2021	22 Dec 2021
TP07_0.9-1.1	SE227223.010	LB239626	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	27 Dec 2021	22 Dec 2021
TP08_0.4-0.5	SE227223.011	LB239626	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	27 Dec 2021	22 Dec 2021
QZ02	SE227223.012	LB239626	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	27 Dec 2021	22 Dec 2021
TP08_0.8-0.9	SE227223.013	LB239626	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	27 Dec 2021	22 Dec 2021
TP10_0.1-0.2	SE227223.014	LB239626	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	27 Dec 2021	22 Dec 2021
TP11_0.1-0.2	SE227223.015	LB239626	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	27 Dec 2021	22 Dec 2021
TP12_0.0-0.2	SE227223.016	LB239626	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	27 Dec 2021	22 Dec 2021
TP13_0.0-0.1	SE227223.017	LB239626	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	27 Dec 2021	22 Dec 2021
TP14_0.0-0.1	SE227223.018	LB239626	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	27 Dec 2021	22 Dec 2021
TP15_0.0-0.2	SE227223.019	LB239627	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	27 Dec 2021	22 Dec 2021
QZ03	SE227223.020	LB239627	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	27 Dec 2021	22 Dec 2021
TP16_0.0-0.2	SE227223.021	LB239627	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	27 Dec 2021	22 Dec 2021
TP17_0.0-0.2	SE227223.022	LB239627	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	27 Dec 2021	22 Dec 2021
TP18_0.0-0.2	SE227223.023	LB239627	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	27 Dec 2021	22 Dec 2021
TP19_0.0-0.2	SE227223.024	LB239627	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	27 Dec 2021	22 Dec 2021
TP20_0.0-0.2	SE227223.025	LB239627	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	27 Dec 2021	22 Dec 2021

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)-ENVJAN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP21_0.0-0.2	SE227223.026	LB239627	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	27 Dec 2021	22 Dec 2021
TP22_0.0-0.2	SE227223.027	LB239627	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	27 Dec 2021	22 Dec 2021
TP34_0.0-0.1	SE227223.040	LB239627	14 Dec 2021	16 Dec 2021	28 Dec 2021	20 Dec 2021	28 Dec 2021	22 Dec 2021
TP35_0.2-0.3	SE227223.041	LB239627	14 Dec 2021	16 Dec 2021	28 Dec 2021	20 Dec 2021	28 Dec 2021	22 Dec 2021
TP36_0.0-0.1	SE227223.042	LB239627	14 Dec 2021	16 Dec 2021	28 Dec 2021	20 Dec 2021	28 Dec 2021	22 Dec 2021
TP37_0.0-0.2	SE227223.043	LB239627	14 Dec 2021	16 Dec 2021	28 Dec 2021	20 Dec 2021	28 Dec 2021	22 Dec 2021
TP38_0.1-0.3	SE227223.044	LB239628	14 Dec 2021	16 Dec 2021	28 Dec 2021	20 Dec 2021	28 Dec 2021	22 Dec 2021
TP39_0.0-0.2	SE227223.045	LB239628	14 Dec 2021	16 Dec 2021	28 Dec 2021	20 Dec 2021	28 Dec 2021	22 Dec 2021
TP40_0.0-0.1	SE227223.046	LB239628	14 Dec 2021	16 Dec 2021	28 Dec 2021	20 Dec 2021	28 Dec 2021	22 Dec 2021
TP41_0.1-0.2	SE227223.047	LB239628	14 Dec 2021	16 Dec 2021	28 Dec 2021	20 Dec 2021	28 Dec 2021	22 Dec 2021
TP42_0.2-0.4	SE227223.048	LB239628	14 Dec 2021	16 Dec 2021	28 Dec 2021	20 Dec 2021	28 Dec 2021	22 Dec 2021
QZ05	SE227223.049	LB239628	14 Dec 2021	16 Dec 2021	28 Dec 2021	20 Dec 2021	28 Dec 2021	22 Dec 2021
TP43_0.1-0.2	SE227223.050	LB239628	14 Dec 2021	16 Dec 2021	28 Dec 2021	20 Dec 2021	28 Dec 2021	22 Dec 2021
TP44_0.0-0.2	SE227223.051	LB239628	14 Dec 2021	16 Dec 2021	28 Dec 2021	20 Dec 2021	28 Dec 2021	22 Dec 2021
TP45_0.0-0.2	SE227223.052	LB239628	14 Dec 2021	16 Dec 2021	28 Dec 2021	20 Dec 2021	28 Dec 2021	22 Dec 2021
TP46_0.1-0.3	SE227223.053	LB239628	15 Dec 2021	16 Dec 2021	29 Dec 2021	20 Dec 2021	29 Dec 2021	22 Dec 2021
TP47_0.0-0.1	SE227223.054	LB239628	15 Dec 2021	16 Dec 2021	29 Dec 2021	20 Dec 2021	29 Dec 2021	22 Dec 2021
TP48_0.0-0.1	SE227223.055	LB239628	15 Dec 2021	16 Dec 2021	29 Dec 2021	20 Dec 2021	29 Dec 2021	22 Dec 2021
TP49_0.0-0.2	SE227223.056	LB239628	15 Dec 2021	16 Dec 2021	29 Dec 2021	20 Dec 2021	29 Dec 2021	22 Dec 2021
TP49_0.4-0.5	SE227223.057	LB239628	15 Dec 2021	16 Dec 2021	29 Dec 2021	20 Dec 2021	29 Dec 2021	22 Dec 2021
QZ06	SE227223.058	LB239628	15 Dec 2021	16 Dec 2021	29 Dec 2021	20 Dec 2021	29 Dec 2021	22 Dec 2021
TP51_0.0-0.2	SE227223.059	LB239628	15 Dec 2021	16 Dec 2021	29 Dec 2021	20 Dec 2021	29 Dec 2021	22 Dec 2021
TP52_0.0-0.1	SE227223.060	LB239628	15 Dec 2021	16 Dec 2021	29 Dec 2021	20 Dec 2021	29 Dec 2021	22 Dec 2021
TP53_0.0-0.2	SE227223.061	LB239628	15 Dec 2021	16 Dec 2021	29 Dec 2021	20 Dec 2021	29 Dec 2021	22 Dec 2021
TP54_0.0-0.2	SE227223.062	LB239628	15 Dec 2021	16 Dec 2021	29 Dec 2021	20 Dec 2021	29 Dec 2021	22 Dec 2021
Trip Blank 1	SE227223.067	LB239628	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	27 Dec 2021	22 Dec 2021
Trip Spike A	SE227223.068	LB239628	13 Dec 2021	16 Dec 2021	27 Dec 2021	20 Dec 2021	27 Dec 2021	22 Dec 2021

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 identifier 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)	TP01_0.0-0.2	SE227223.001	%	60 - 130%	73
	TP02_0.0-0.1	SE227223.003	%	60 - 130%	80
	TP03_0.0-0.2	SE227223.004	%	60 - 130%	79
	TP04_0.0-0.1	SE227223.005	%	60 - 130%	80
	TP05_0.0-0.1	SE227223.006	%	60 - 130%	78
	TP06_0.4-0.5	SE227223.007	%	60 - 130%	85
	TP06_0.7-0.9	SE227223.008	%	60 - 130%	84
	TP07_0.2-0.3	SE227223.009	%	60 - 130%	79
	TP07_0.9-1.1	SE227223.010	%	60 - 130%	82
	TP08_0.4-0.5	SE227223.011	%	60 - 130%	71
	TP08_0.8-0.9	SE227223.013	%	60 - 130%	83
	TP10_0.1-0.2	SE227223.014	%	60 - 130%	84
	TP11_0.1-0.2	SE227223.015	%	60 - 130%	79
	TP12_0.0-0.2	SE227223.016	%	60 - 130%	85
	TP13_0.0-0.1	SE227223.017	%	60 - 130%	85
	TP14_0.0-0.1	SE227223.018	%	60 - 130%	79
	TP38_0.1-0.3	SE227223.044	%	60 - 130%	88
	TP39_0.0-0.2	SE227223.045	%	60 - 130%	88
	TP40_0.0-0.1	SE227223.046	%	60 - 130%	85
	TP41_0.1-0.2	SE227223.047	%	60 - 130%	85
	TP42_0.2-0.4	SE227223.048	%	60 - 130%	83
	TP43_0.1-0.2	SE227223.050	%	60 - 130%	88
	TP44_0.0-0.2	SE227223.051	%	60 - 130%	90
	TP45_0.0-0.2	SE227223.052	%	60 - 130%	85
	TP46_0.1-0.3	SE227223.053	%	60 - 130%	83
	TP47_0.0-0.1	SE227223.054	%	60 - 130%	90
	TP48_0.0-0.1	SE227223.055	%	60 - 130%	85
	TP49_0.0-0.2	SE227223.056	%	60 - 130%	89
	TP49_0.4-0.5	SE227223.057	%	60 - 130%	87
	TP51_0.0-0.2	SE227223.059	%	60 - 130%	87
	TP52_0.0-0.1	SE227223.060	%	60 - 130%	87
	TP53_0.0-0.2	SE227223.061	%	60 - 130%	86
	TP54_0.0-0.2	SE227223.062	%	60 - 130%	84

OP Pesticides in Soil

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	TP01_0.0-0.2	SE227223.001	%	60 - 130%	86
	TP02_0.0-0.1	SE227223.003	%	60 - 130%	84
	TP03_0.0-0.2	SE227223.004	%	60 - 130%	86
	TP04_0.0-0.1	SE227223.005	%	60 - 130%	88
	TP05_0.0-0.1	SE227223.006	%	60 - 130%	86
	TP06_0.4-0.5	SE227223.007	%	60 - 130%	88
	TP06_0.7-0.9	SE227223.008	%	60 - 130%	86
	TP07_0.2-0.3	SE227223.009	%	60 - 130%	84
	TP07_0.9-1.1	SE227223.010	%	60 - 130%	84
	TP08_0.4-0.5	SE227223.011	%	60 - 130%	88
	TP08_0.8-0.9	SE227223.013	%	60 - 130%	86
	TP10_0.1-0.2	SE227223.014	%	60 - 130%	86
	TP11_0.1-0.2	SE227223.015	%	60 - 130%	84
	TP12_0.0-0.2	SE227223.016	%	60 - 130%	84
	TP13_0.0-0.1	SE227223.017	%	60 - 130%	84
	TP14_0.0-0.1	SE227223.018	%	60 - 130%	86
	TP38_0.1-0.3	SE227223.044	%	60 - 130%	93
	TP39_0.0-0.2	SE227223.045	%	60 - 130%	93
	TP40_0.0-0.1	SE227223.046	%	60 - 130%	93
	TP41_0.1-0.2	SE227223.047	%	60 - 130%	92
	TP42_0.2-0.4	SE227223.048	%	60 - 130%	92
	TP43_0.1-0.2	SE227223.050	%	60 - 130%	94
	TP44_0.0-0.2	SE227223.051	%	60 - 130%	90
	TP45_0.0-0.2	SE227223.052	%	60 - 130%	93
	TP46_0.1-0.3	SE227223.053	%	60 - 130%	95

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 identifier 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)	TP47_0.0-0.1	SE227223.054	%	60 - 130%	93
	TP48_0.0-0.1	SE227223.055	%	60 - 130%	88
	TP49_0.0-0.2	SE227223.056	%	60 - 130%	94
	TP49_0.4-0.5	SE227223.057	%	60 - 130%	94
	TP51_0.0-0.2	SE227223.059	%	60 - 130%	94
	TP52_0.0-0.1	SE227223.060	%	60 - 130%	98
	TP53_0.0-0.2	SE227223.061	%	60 - 130%	94
	TP54_0.0-0.2	SE227223.062	%	60 - 130%	94
d14-p-terphenyl (Surrogate)	TP01_0.0-0.2	SE227223.001	%	60 - 130%	92
	TP02_0.0-0.1	SE227223.003	%	60 - 130%	88
	TP03_0.0-0.2	SE227223.004	%	60 - 130%	90
	TP04_0.0-0.1	SE227223.005	%	60 - 130%	90
	TP05_0.0-0.1	SE227223.006	%	60 - 130%	90
	TP06_0.4-0.5	SE227223.007	%	60 - 130%	90
	TP06_0.7-0.9	SE227223.008	%	60 - 130%	90
	TP07_0.2-0.3	SE227223.009	%	60 - 130%	88
	TP07_0.9-1.1	SE227223.010	%	60 - 130%	86
	TP08_0.4-0.5	SE227223.011	%	60 - 130%	90
	TP08_0.8-0.9	SE227223.013	%	60 - 130%	90
	TP10_0.1-0.2	SE227223.014	%	60 - 130%	90
	TP11_0.1-0.2	SE227223.015	%	60 - 130%	90
	TP12_0.0-0.2	SE227223.016	%	60 - 130%	88
	TP13_0.0-0.1	SE227223.017	%	60 - 130%	88
	TP14_0.0-0.1	SE227223.018	%	60 - 130%	90
	TP38_0.1-0.3	SE227223.044	%	60 - 130%	97
	TP39_0.0-0.2	SE227223.045	%	60 - 130%	98
	TP40_0.0-0.1	SE227223.046	%	60 - 130%	97
	TP41_0.1-0.2	SE227223.047	%	60 - 130%	95
	TP42_0.2-0.4	SE227223.048	%	60 - 130%	95
	TP43_0.1-0.2	SE227223.050	%	60 - 130%	98
	TP44_0.0-0.2	SE227223.051	%	60 - 130%	95
	TP45_0.0-0.2	SE227223.052	%	60 - 130%	99
	TP46_0.1-0.3	SE227223.053	%	60 - 130%	98
	TP47_0.0-0.1	SE227223.054	%	60 - 130%	97
	TP48_0.0-0.1	SE227223.055	%	60 - 130%	97
	TP49_0.0-0.2	SE227223.056	%	60 - 130%	100
	TP49_0.4-0.5	SE227223.057	%	60 - 130%	96
	TP51_0.0-0.2	SE227223.059	%	60 - 130%	94
	TP52_0.0-0.1	SE227223.060	%	60 - 130%	98
	TP53_0.0-0.2	SE227223.061	%	60 - 130%	96
	TP54_0.0-0.2	SE227223.062	%	60 - 130%	98

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	TP01_0.0-0.2	SE227223.001	%	70 - 130%	86
	QZ01	SE227223.002	%	70 - 130%	86
	TP02_0.0-0.1	SE227223.003	%	70 - 130%	84
	TP03_0.0-0.2	SE227223.004	%	70 - 130%	86
	TP04_0.0-0.1	SE227223.005	%	70 - 130%	88
	TP05_0.0-0.1	SE227223.006	%	70 - 130%	86
	TP06_0.4-0.5	SE227223.007	%	70 - 130%	88
	TP06_0.7-0.9	SE227223.008	%	70 - 130%	86
	TP07_0.2-0.3	SE227223.009	%	70 - 130%	84
	TP07_0.9-1.1	SE227223.010	%	70 - 130%	84
	TP08_0.4-0.5	SE227223.011	%	70 - 130%	88
	QZ02	SE227223.012	%	70 - 130%	86
	TP08_0.8-0.9	SE227223.013	%	70 - 130%	86
	TP10_0.1-0.2	SE227223.014	%	70 - 130%	86
	TP11_0.1-0.2	SE227223.015	%	70 - 130%	84
	TP12_0.0-0.2	SE227223.016	%	70 - 130%	84
	TP13_0.0-0.1	SE227223.017	%	70 - 130%	84

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 identifier 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)	TP14_0.0-0.1	SE227223.018	%	70 - 130%	86
	TP15_0.0-0.2	SE227223.019	%	70 - 130%	86
	QZ03	SE227223.020	%	70 - 130%	76
	TP16_0.0-0.2	SE227223.021	%	70 - 130%	82
	TP17_0.0-0.2	SE227223.022	%	70 - 130%	84
	TP18_0.0-0.2	SE227223.023	%	70 - 130%	92
	TP19_0.0-0.2	SE227223.024	%	70 - 130%	82
	TP20_0.0-0.2	SE227223.025	%	70 - 130%	82
	TP21_0.0-0.2	SE227223.026	%	70 - 130%	86
	TP22_0.0-0.2	SE227223.027	%	70 - 130%	84
	TP34_0.0-0.1	SE227223.040	%	70 - 130%	80
	TP35_0.2-0.3	SE227223.041	%	70 - 130%	76
	TP36_0.0-0.1	SE227223.042	%	70 - 130%	86
	TP37_0.0-0.2	SE227223.043	%	70 - 130%	84
	TP38_0.1-0.3	SE227223.044	%	70 - 130%	93
	TP39_0.0-0.2	SE227223.045	%	70 - 130%	93
	TP40_0.0-0.1	SE227223.046	%	70 - 130%	93
	TP41_0.1-0.2	SE227223.047	%	70 - 130%	92
	TP42_0.2-0.4	SE227223.048	%	70 - 130%	92
	QZ05	SE227223.049	%	70 - 130%	94
	TP43_0.1-0.2	SE227223.050	%	70 - 130%	94
	TP44_0.0-0.2	SE227223.051	%	70 - 130%	90
	TP45_0.0-0.2	SE227223.052	%	70 - 130%	93
	TP46_0.1-0.3	SE227223.053	%	70 - 130%	95
	TP47_0.0-0.1	SE227223.054	%	70 - 130%	93
	TP48_0.0-0.1	SE227223.055	%	70 - 130%	88
	TP49_0.0-0.2	SE227223.056	%	70 - 130%	94
	TP49_0.4-0.5	SE227223.057	%	70 - 130%	94
	QZ06	SE227223.058	%	70 - 130%	93
	TP51_0.0-0.2	SE227223.059	%	70 - 130%	94
	TP52_0.0-0.1	SE227223.060	%	70 - 130%	98
	TP53_0.0-0.2	SE227223.061	%	70 - 130%	94
	TP54_0.0-0.2	SE227223.062	%	70 - 130%	94
d14-p-terphenyl (Surrogate)	TP01_0.0-0.2	SE227223.001	%	70 - 130%	92
	QZ01	SE227223.002	%	70 - 130%	88
	TP02_0.0-0.1	SE227223.003	%	70 - 130%	88
	TP03_0.0-0.2	SE227223.004	%	70 - 130%	90
	TP04_0.0-0.1	SE227223.005	%	70 - 130%	90
	TP05_0.0-0.1	SE227223.006	%	70 - 130%	90
	TP06_0.4-0.5	SE227223.007	%	70 - 130%	90
	TP06_0.7-0.9	SE227223.008	%	70 - 130%	90
	TP07_0.2-0.3	SE227223.009	%	70 - 130%	88
	TP07_0.9-1.1	SE227223.010	%	70 - 130%	86
	TP08_0.4-0.5	SE227223.011	%	70 - 130%	90
	QZ02	SE227223.012	%	70 - 130%	88
	TP08_0.8-0.9	SE227223.013	%	70 - 130%	90
	TP10_0.1-0.2	SE227223.014	%	70 - 130%	90
	TP11_0.1-0.2	SE227223.015	%	70 - 130%	90
	TP12_0.0-0.2	SE227223.016	%	70 - 130%	88
	TP13_0.0-0.1	SE227223.017	%	70 - 130%	88
	TP14_0.0-0.1	SE227223.018	%	70 - 130%	90
	TP15_0.0-0.2	SE227223.019	%	70 - 130%	88
	QZ03	SE227223.020	%	70 - 130%	78
	TP16_0.0-0.2	SE227223.021	%	70 - 130%	86
	TP17_0.0-0.2	SE227223.022	%	70 - 130%	88
	TP18_0.0-0.2	SE227223.023	%	70 - 130%	96
	TP19_0.0-0.2	SE227223.024	%	70 - 130%	84
	TP20_0.0-0.2	SE227223.025	%	70 - 130%	86
	TP21_0.0-0.2	SE227223.026	%	70 - 130%	90
	TP22_0.0-0.2	SE227223.027	%	70 - 130%	90
	TP34_0.0-0.1	SE227223.040	%	70 - 130%	84

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 identifier 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)	TP35_0.2-0.3	SE227223.041	%	70 - 130%	80
	TP36_0.0-0.1	SE227223.042	%	70 - 130%	90
	TP37_0.0-0.2	SE227223.043	%	70 - 130%	88
	TP38_0.1-0.3	SE227223.044	%	70 - 130%	97
	TP39_0.0-0.2	SE227223.045	%	70 - 130%	98
	TP40_0.0-0.1	SE227223.046	%	70 - 130%	97
	TP41_0.1-0.2	SE227223.047	%	70 - 130%	95
	TP42_0.2-0.4	SE227223.048	%	70 - 130%	95
	QZ05	SE227223.049	%	70 - 130%	96
	TP43_0.1-0.2	SE227223.050	%	70 - 130%	98
	TP44_0.0-0.2	SE227223.051	%	70 - 130%	95
	TP45_0.0-0.2	SE227223.052	%	70 - 130%	99
	TP46_0.1-0.3	SE227223.053	%	70 - 130%	98
	TP47_0.0-0.1	SE227223.054	%	70 - 130%	97
	TP48_0.0-0.1	SE227223.055	%	70 - 130%	97
	TP49_0.0-0.2	SE227223.056	%	70 - 130%	100
	TP49_0.4-0.5	SE227223.057	%	70 - 130%	96
	QZ06	SE227223.058	%	70 - 130%	97
	TP51_0.0-0.2	SE227223.059	%	70 - 130%	94
	TP52_0.0-0.1	SE227223.060	%	70 - 130%	98
	TP53_0.0-0.2	SE227223.061	%	70 - 130%	96
	TP54_0.0-0.2	SE227223.062	%	70 - 130%	98
d5-nitrobenzene (Surrogate)	TP01_0.0-0.2	SE227223.001	%	70 - 130%	84
	QZ01	SE227223.002	%	70 - 130%	84
	TP02_0.0-0.1	SE227223.003	%	70 - 130%	84
	TP03_0.0-0.2	SE227223.004	%	70 - 130%	84
	TP04_0.0-0.1	SE227223.005	%	70 - 130%	86
	TP05_0.0-0.1	SE227223.006	%	70 - 130%	84
	TP06_0.4-0.5	SE227223.007	%	70 - 130%	86
	TP06_0.7-0.9	SE227223.008	%	70 - 130%	84
	TP07_0.2-0.3	SE227223.009	%	70 - 130%	82
	TP07_0.9-1.1	SE227223.010	%	70 - 130%	82
	TP08_0.4-0.5	SE227223.011	%	70 - 130%	86
	QZ02	SE227223.012	%	70 - 130%	82
	TP08_0.8-0.9	SE227223.013	%	70 - 130%	84
	TP10_0.1-0.2	SE227223.014	%	70 - 130%	82
	TP11_0.1-0.2	SE227223.015	%	70 - 130%	82
	TP12_0.0-0.2	SE227223.016	%	70 - 130%	82
	TP13_0.0-0.1	SE227223.017	%	70 - 130%	84
	TP14_0.0-0.1	SE227223.018	%	70 - 130%	86
	TP15_0.0-0.2	SE227223.019	%	70 - 130%	82
	QZ03	SE227223.020	%	70 - 130%	74
	TP16_0.0-0.2	SE227223.021	%	70 - 130%	78
	TP17_0.0-0.2	SE227223.022	%	70 - 130%	80
	TP18_0.0-0.2	SE227223.023	%	70 - 130%	88
	TP19_0.0-0.2	SE227223.024	%	70 - 130%	78
	TP20_0.0-0.2	SE227223.025	%	70 - 130%	80
	TP21_0.0-0.2	SE227223.026	%	70 - 130%	84
	TP22_0.0-0.2	SE227223.027	%	70 - 130%	82
	TP34_0.0-0.1	SE227223.040	%	70 - 130%	78
	TP35_0.2-0.3	SE227223.041	%	70 - 130%	74
	TP36_0.0-0.1	SE227223.042	%	70 - 130%	82
	TP37_0.0-0.2	SE227223.043	%	70 - 130%	82
	TP38_0.1-0.3	SE227223.044	%	70 - 130%	92
	TP39_0.0-0.2	SE227223.045	%	70 - 130%	92
	TP40_0.0-0.1	SE227223.046	%	70 - 130%	91
	TP41_0.1-0.2	SE227223.047	%	70 - 130%	90
	TP42_0.2-0.4	SE227223.048	%	70 - 130%	89
	QZ05	SE227223.049	%	70 - 130%	91
	TP43_0.1-0.2	SE227223.050	%	70 - 130%	91
	TP44_0.0-0.2	SE227223.051	%	70 - 130%	87

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 identifier 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)	TP45_0.0-0.2	SE227223.052	%	70 - 130%	90
	TP46_0.1-0.3	SE227223.053	%	70 - 130%	92
	TP47_0.0-0.1	SE227223.054	%	70 - 130%	89
	TP48_0.0-0.1	SE227223.055	%	70 - 130%	80
	TP49_0.0-0.2	SE227223.056	%	70 - 130%	89
	TP49_0.4-0.5	SE227223.057	%	70 - 130%	90
	QZ06	SE227223.058	%	70 - 130%	87
	TP51_0.0-0.2	SE227223.059	%	70 - 130%	88
	TP52_0.0-0.1	SE227223.060	%	70 - 130%	92
	TP53_0.0-0.2	SE227223.061	%	70 - 130%	90
	TP54_0.0-0.2	SE227223.062	%	70 - 130%	90

PCBs in Soil

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Tetrachloro-m-xylene (TCMX) (Surrogate)	TP01_0.0-0.2	SE227223.001	%	60 - 130%	73
	TP02_0.0-0.1	SE227223.003	%	60 - 130%	80
	TP03_0.0-0.2	SE227223.004	%	60 - 130%	79
	TP04_0.0-0.1	SE227223.005	%	60 - 130%	80
	TP05_0.0-0.1	SE227223.006	%	60 - 130%	78
	TP06_0.4-0.5	SE227223.007	%	60 - 130%	85
	TP06_0.7-0.9	SE227223.008	%	60 - 130%	84
	TP07_0.2-0.3	SE227223.009	%	60 - 130%	79
	TP07_0.9-1.1	SE227223.010	%	60 - 130%	82
	TP08_0.4-0.5	SE227223.011	%	60 - 130%	71
	TP08_0.8-0.9	SE227223.013	%	60 - 130%	83
	TP10_0.1-0.2	SE227223.014	%	60 - 130%	84
	TP11_0.1-0.2	SE227223.015	%	60 - 130%	79
	TP12_0.0-0.2	SE227223.016	%	60 - 130%	85
	TP13_0.0-0.1	SE227223.017	%	60 - 130%	85
	TP14_0.0-0.1	SE227223.018	%	60 - 130%	79
	TP38_0.1-0.3	SE227223.044	%	60 - 130%	88
	TP39_0.0-0.2	SE227223.045	%	60 - 130%	88
	TP40_0.0-0.1	SE227223.046	%	60 - 130%	85
	TP41_0.1-0.2	SE227223.047	%	60 - 130%	85
	TP42_0.2-0.4	SE227223.048	%	60 - 130%	83
	TP43_0.1-0.2	SE227223.050	%	60 - 130%	88
	TP44_0.0-0.2	SE227223.051	%	60 - 130%	90
	TP45_0.0-0.2	SE227223.052	%	60 - 130%	85
	TP46_0.1-0.3	SE227223.053	%	60 - 130%	83
	TP47_0.0-0.1	SE227223.054	%	60 - 130%	90
	TP48_0.0-0.1	SE227223.055	%	60 - 130%	85
	TP49_0.0-0.2	SE227223.056	%	60 - 130%	89
	TP49_0.4-0.5	SE227223.057	%	60 - 130%	87
	TP51_0.0-0.2	SE227223.059	%	60 - 130%	87
	TP52_0.0-0.1	SE227223.060	%	60 - 130%	87
	TP53_0.0-0.2	SE227223.061	%	60 - 130%	86
	TP54_0.0-0.2	SE227223.062	%	60 - 130%	84

VOC's in Soil

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	TP01_0.0-0.2	SE227223.001	%	60 - 130%	86
	QZ01	SE227223.002	%	60 - 130%	85
	TP02_0.0-0.1	SE227223.003	%	60 - 130%	79
	TP03_0.0-0.2	SE227223.004	%	60 - 130%	91
	TP04_0.0-0.1	SE227223.005	%	60 - 130%	85
	TP05_0.0-0.1	SE227223.006	%	60 - 130%	84
	TP06_0.4-0.5	SE227223.007	%	60 - 130%	85
	TP06_0.7-0.9	SE227223.008	%	60 - 130%	90
	TP07_0.2-0.3	SE227223.009	%	60 - 130%	90
	TP07_0.9-1.1	SE227223.010	%	60 - 130%	92
	TP08_0.4-0.5	SE227223.011	%	60 - 130%	93
	QZ02	SE227223.012	%	60 - 130%	91

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 identifier 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)	TP08_0.8-0.9	SE227223.013	%	60 - 130%	83
	TP10_0.1-0.2	SE227223.014	%	60 - 130%	86
	TP11_0.1-0.2	SE227223.015	%	60 - 130%	85
	TP12_0.0-0.2	SE227223.016	%	60 - 130%	84
	TP13_0.0-0.1	SE227223.017	%	60 - 130%	85
	TP14_0.0-0.1	SE227223.018	%	60 - 130%	87
	TP15_0.0-0.2	SE227223.019	%	60 - 130%	78
	QZ03	SE227223.020	%	60 - 130%	83
	TP16_0.0-0.2	SE227223.021	%	60 - 130%	82
	TP17_0.0-0.2	SE227223.022	%	60 - 130%	82
	TP18_0.0-0.2	SE227223.023	%	60 - 130%	79
	TP19_0.0-0.2	SE227223.024	%	60 - 130%	81
	TP20_0.0-0.2	SE227223.025	%	60 - 130%	80
	TP21_0.0-0.2	SE227223.026	%	60 - 130%	82
	TP22_0.0-0.2	SE227223.027	%	60 - 130%	78
	TP34_0.0-0.1	SE227223.040	%	60 - 130%	83
	TP35_0.2-0.3	SE227223.041	%	60 - 130%	82
	TP36_0.0-0.1	SE227223.042	%	60 - 130%	81
	TP37_0.0-0.2	SE227223.043	%	60 - 130%	79
	TP38_0.1-0.3	SE227223.044	%	60 - 130%	75
	TP39_0.0-0.2	SE227223.045	%	60 - 130%	79
	TP40_0.0-0.1	SE227223.046	%	60 - 130%	78
	TP41_0.1-0.2	SE227223.047	%	60 - 130%	71
	TP42_0.2-0.4	SE227223.048	%	60 - 130%	73
	QZ05	SE227223.049	%	60 - 130%	76
	TP43_0.1-0.2	SE227223.050	%	60 - 130%	78
	TP44_0.0-0.2	SE227223.051	%	60 - 130%	72
	TP45_0.0-0.2	SE227223.052	%	60 - 130%	70
	TP46_0.1-0.3	SE227223.053	%	60 - 130%	78
	TP47_0.0-0.1	SE227223.054	%	60 - 130%	83
	TP48_0.0-0.1	SE227223.055	%	60 - 130%	83
	TP49_0.0-0.2	SE227223.056	%	60 - 130%	77
	TP49_0.4-0.5	SE227223.057	%	60 - 130%	73
	QZ06	SE227223.058	%	60 - 130%	71
	TP51_0.0-0.2	SE227223.059	%	60 - 130%	79
	TP52_0.0-0.1	SE227223.060	%	60 - 130%	86
	TP53_0.0-0.2	SE227223.061	%	60 - 130%	78
	TP54_0.0-0.2	SE227223.062	%	60 - 130%	78
	Trip Blank 1	SE227223.067	%	60 - 130%	87
	Trip Spike A	SE227223.068	%	60 - 130%	73
d4-1,2-dichloroethane (Surrogate)	TP01_0.0-0.2	SE227223.001	%	60 - 130%	104
	QZ01	SE227223.002	%	60 - 130%	106
	TP02_0.0-0.1	SE227223.003	%	60 - 130%	100
	TP03_0.0-0.2	SE227223.004	%	60 - 130%	108
	TP04_0.0-0.1	SE227223.005	%	60 - 130%	99
	TP05_0.0-0.1	SE227223.006	%	60 - 130%	96
	TP06_0.4-0.5	SE227223.007	%	60 - 130%	104
	TP06_0.7-0.9	SE227223.008	%	60 - 130%	107
	TP07_0.2-0.3	SE227223.009	%	60 - 130%	106
	TP07_0.9-1.1	SE227223.010	%	60 - 130%	111
	TP08_0.4-0.5	SE227223.011	%	60 - 130%	109
	QZ02	SE227223.012	%	60 - 130%	109
	TP08_0.8-0.9	SE227223.013	%	60 - 130%	95
	TP10_0.1-0.2	SE227223.014	%	60 - 130%	104
	TP11_0.1-0.2	SE227223.015	%	60 - 130%	100
	TP12_0.0-0.2	SE227223.016	%	60 - 130%	102
	TP13_0.0-0.1	SE227223.017	%	60 - 130%	101
	TP14_0.0-0.1	SE227223.018	%	60 - 130%	103
	TP15_0.0-0.2	SE227223.019	%	60 - 130%	91
	QZ03	SE227223.020	%	60 - 130%	101
	TP16_0.0-0.2	SE227223.021	%	60 - 130%	100

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 identifier 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)	TP17_0.0-0.2	SE227223.022	%	60 - 130%	97
	TP18_0.0-0.2	SE227223.023	%	60 - 130%	94
	TP19_0.0-0.2	SE227223.024	%	60 - 130%	100
	TP20_0.0-0.2	SE227223.025	%	60 - 130%	93
	TP21_0.0-0.2	SE227223.026	%	60 - 130%	99
	TP22_0.0-0.2	SE227223.027	%	60 - 130%	94
	TP34_0.0-0.1	SE227223.040	%	60 - 130%	102
	TP35_0.2-0.3	SE227223.041	%	60 - 130%	97
	TP36_0.0-0.1	SE227223.042	%	60 - 130%	99
	TP37_0.0-0.2	SE227223.043	%	60 - 130%	97
	TP38_0.1-0.3	SE227223.044	%	60 - 130%	73
	TP39_0.0-0.2	SE227223.045	%	60 - 130%	78
	TP40_0.0-0.1	SE227223.046	%	60 - 130%	77
	TP41_0.1-0.2	SE227223.047	%	60 - 130%	78
	TP42_0.2-0.4	SE227223.048	%	60 - 130%	71
	QZ05	SE227223.049	%	60 - 130%	76
	TP43_0.1-0.2	SE227223.050	%	60 - 130%	77
	TP44_0.0-0.2	SE227223.051	%	60 - 130%	74
	TP45_0.0-0.2	SE227223.052	%	60 - 130%	79
	TP46_0.1-0.3	SE227223.053	%	60 - 130%	77
	TP47_0.0-0.1	SE227223.054	%	60 - 130%	81
	TP48_0.0-0.1	SE227223.055	%	60 - 130%	83
	TP49_0.0-0.2	SE227223.056	%	60 - 130%	79
	TP49_0.4-0.5	SE227223.057	%	60 - 130%	75
	QZ06	SE227223.058	%	60 - 130%	72
	TP51_0.0-0.2	SE227223.059	%	60 - 130%	78
	TP52_0.0-0.1	SE227223.060	%	60 - 130%	86
	TP53_0.0-0.2	SE227223.061	%	60 - 130%	80
	TP54_0.0-0.2	SE227223.062	%	60 - 130%	81
	Trip Blank 1	SE227223.067	%	60 - 130%	91
	Trip Spike A	SE227223.068	%	60 - 130%	91
d8-toluene (Surrogate)	TP01_0.0-0.2	SE227223.001	%	60 - 130%	101
	QZ01	SE227223.002	%	60 - 130%	100
	TP02_0.0-0.1	SE227223.003	%	60 - 130%	94
	TP03_0.0-0.2	SE227223.004	%	60 - 130%	104
	TP04_0.0-0.1	SE227223.005	%	60 - 130%	95
	TP05_0.0-0.1	SE227223.006	%	60 - 130%	96
	TP06_0.4-0.5	SE227223.007	%	60 - 130%	100
	TP06_0.7-0.9	SE227223.008	%	60 - 130%	103
	TP07_0.2-0.3	SE227223.009	%	60 - 130%	102
	TP07_0.9-1.1	SE227223.010	%	60 - 130%	108
	TP08_0.4-0.5	SE227223.011	%	60 - 130%	107
	QZ02	SE227223.012	%	60 - 130%	108
	TP08_0.8-0.9	SE227223.013	%	60 - 130%	98
	TP10_0.1-0.2	SE227223.014	%	60 - 130%	101
	TP11_0.1-0.2	SE227223.015	%	60 - 130%	102
	TP12_0.0-0.2	SE227223.016	%	60 - 130%	100
	TP13_0.0-0.1	SE227223.017	%	60 - 130%	99
	TP14_0.0-0.1	SE227223.018	%	60 - 130%	101
	TP15_0.0-0.2	SE227223.019	%	60 - 130%	83
	QZ03	SE227223.020	%	60 - 130%	95
	TP16_0.0-0.2	SE227223.021	%	60 - 130%	96
	TP17_0.0-0.2	SE227223.022	%	60 - 130%	95
	TP18_0.0-0.2	SE227223.023	%	60 - 130%	92
	TP19_0.0-0.2	SE227223.024	%	60 - 130%	96
	TP20_0.0-0.2	SE227223.025	%	60 - 130%	89
	TP21_0.0-0.2	SE227223.026	%	60 - 130%	93
	TP22_0.0-0.2	SE227223.027	%	60 - 130%	88
	TP34_0.0-0.1	SE227223.040	%	60 - 130%	97
	TP35_0.2-0.3	SE227223.041	%	60 - 130%	93
	TP36_0.0-0.1	SE227223.042	%	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 identifier 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)	TP37_0.0-0.2	SE227223.043	%	60 - 130%	91
	TP38_0.1-0.3	SE227223.044	%	60 - 130%	68
	TP39_0.0-0.2	SE227223.045	%	60 - 130%	74
	TP40_0.0-0.1	SE227223.046	%	60 - 130%	72
	TP41_0.1-0.2	SE227223.047	%	60 - 130%	76
	TP42_0.2-0.4	SE227223.048	%	60 - 130%	65
	QZ05	SE227223.049	%	60 - 130%	71
	TP43_0.1-0.2	SE227223.050	%	60 - 130%	77
	TP44_0.0-0.2	SE227223.051	%	60 - 130%	71
	TP45_0.0-0.2	SE227223.052	%	60 - 130%	77
	TP46_0.1-0.3	SE227223.053	%	60 - 130%	75
	TP47_0.0-0.1	SE227223.054	%	60 - 130%	81
	TP48_0.0-0.1	SE227223.055	%	60 - 130%	82
	TP49_0.0-0.2	SE227223.056	%	60 - 130%	75
	TP49_0.4-0.5	SE227223.057	%	60 - 130%	73
	QZ06	SE227223.058	%	60 - 130%	68
	TP51_0.0-0.2	SE227223.059	%	60 - 130%	78
	TP52_0.0-0.1	SE227223.060	%	60 - 130%	85
	TP53_0.0-0.2	SE227223.061	%	60 - 130%	77
	TP54_0.0-0.2	SE227223.062	%	60 - 130%	79
	Trip Blank 1	SE227223.067	%	60 - 130%	90
	Trip Spike A	SE227223.068	%	60 - 130%	90

Volatile Petroleum Hydrocarbons in Soil

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	TP01_0.0-0.2	SE227223.001	%	60 - 130%	86
	QZ01	SE227223.002	%	60 - 130%	85
	TP02_0.0-0.1	SE227223.003	%	60 - 130%	79
	TP03_0.0-0.2	SE227223.004	%	60 - 130%	91
	TP04_0.0-0.1	SE227223.005	%	60 - 130%	85
	TP05_0.0-0.1	SE227223.006	%	60 - 130%	84
	TP06_0.4-0.5	SE227223.007	%	60 - 130%	85
	TP06_0.7-0.9	SE227223.008	%	60 - 130%	90
	TP07_0.2-0.3	SE227223.009	%	60 - 130%	90
	TP07_0.9-1.1	SE227223.010	%	60 - 130%	92
	TP08_0.4-0.5	SE227223.011	%	60 - 130%	93
	QZ02	SE227223.012	%	60 - 130%	91
	TP08_0.8-0.9	SE227223.013	%	60 - 130%	83
	TP10_0.1-0.2	SE227223.014	%	60 - 130%	86
	TP11_0.1-0.2	SE227223.015	%	60 - 130%	85
	TP12_0.0-0.2	SE227223.016	%	60 - 130%	84
	TP13_0.0-0.1	SE227223.017	%	60 - 130%	85
	TP14_0.0-0.1	SE227223.018	%	60 - 130%	87
	TP15_0.0-0.2	SE227223.019	%	60 - 130%	78
	QZ03	SE227223.020	%	60 - 130%	83
	TP16_0.0-0.2	SE227223.021	%	60 - 130%	82
	TP17_0.0-0.2	SE227223.022	%	60 - 130%	82
	TP18_0.0-0.2	SE227223.023	%	60 - 130%	79
	TP19_0.0-0.2	SE227223.024	%	60 - 130%	81
	TP20_0.0-0.2	SE227223.025	%	60 - 130%	80
	TP21_0.0-0.2	SE227223.026	%	60 - 130%	82
	TP22_0.0-0.2	SE227223.027	%	60 - 130%	78
	TP34_0.0-0.1	SE227223.040	%	60 - 130%	83
	TP35_0.2-0.3	SE227223.041	%	60 - 130%	82
	TP36_0.0-0.1	SE227223.042	%	60 - 130%	81
	TP37_0.0-0.2	SE227223.043	%	60 - 130%	79
	TP38_0.1-0.3	SE227223.044	%	60 - 130%	75
	TP39_0.0-0.2	SE227223.045	%	60 - 130%	79
	TP40_0.0-0.1	SE227223.046	%	60 - 130%	78
	TP41_0.1-0.2	SE227223.047	%	60 - 130%	71
	TP42_0.2-0.4	SE227223.048	%	60 - 130%	73

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 identifier 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 %
Bromofluorobenzene (Surrogate)	QZ05	SE227223.049	%	60 - 130%	76
	TP43_0.1-0.2	SE227223.050	%	60 - 130%	78
	TP44_0.0-0.2	SE227223.051	%	60 - 130%	72
	TP45_0.0-0.2	SE227223.052	%	60 - 130%	70
	TP46_0.1-0.3	SE227223.053	%	60 - 130%	78
	TP47_0.0-0.1	SE227223.054	%	60 - 130%	83
	TP48_0.0-0.1	SE227223.055	%	60 - 130%	83
	TP49_0.0-0.2	SE227223.056	%	60 - 130%	77
	TP49_0.4-0.5	SE227223.057	%	60 - 130%	73
	QZ06	SE227223.058	%	60 - 130%	71
	TP51_0.0-0.2	SE227223.059	%	60 - 130%	79
	TP52_0.0-0.1	SE227223.060	%	60 - 130%	86
	TP53_0.0-0.2	SE227223.061	%	60 - 130%	78
	TP54_0.0-0.2	SE227223.062	%	60 - 130%	78
d4-1,2-dichloroethane (Surrogate)	TP01_0.0-0.2	SE227223.001	%	60 - 130%	104
	QZ01	SE227223.002	%	60 - 130%	106
	TP02_0.0-0.1	SE227223.003	%	60 - 130%	100
	TP03_0.0-0.2	SE227223.004	%	60 - 130%	108
	TP04_0.0-0.1	SE227223.005	%	60 - 130%	99
	TP05_0.0-0.1	SE227223.006	%	60 - 130%	96
	TP06_0.4-0.5	SE227223.007	%	60 - 130%	104
	TP06_0.7-0.9	SE227223.008	%	60 - 130%	107
	TP07_0.2-0.3	SE227223.009	%	60 - 130%	106
	TP07_0.9-1.1	SE227223.010	%	60 - 130%	111
	TP08_0.4-0.5	SE227223.011	%	60 - 130%	109
	QZ02	SE227223.012	%	60 - 130%	109
	TP08_0.8-0.9	SE227223.013	%	60 - 130%	95
	TP10_0.1-0.2	SE227223.014	%	60 - 130%	104
	TP11_0.1-0.2	SE227223.015	%	60 - 130%	100
	TP12_0.0-0.2	SE227223.016	%	60 - 130%	102
	TP13_0.0-0.1	SE227223.017	%	60 - 130%	101
	TP14_0.0-0.1	SE227223.018	%	60 - 130%	103
	TP15_0.0-0.2	SE227223.019	%	60 - 130%	91
	QZ03	SE227223.020	%	60 - 130%	101
	TP16_0.0-0.2	SE227223.021	%	60 - 130%	100
	TP17_0.0-0.2	SE227223.022	%	60 - 130%	97
	TP18_0.0-0.2	SE227223.023	%	60 - 130%	94
	TP19_0.0-0.2	SE227223.024	%	60 - 130%	100
	TP20_0.0-0.2	SE227223.025	%	60 - 130%	93
	TP21_0.0-0.2	SE227223.026	%	60 - 130%	99
	TP22_0.0-0.2	SE227223.027	%	60 - 130%	94
	TP34_0.0-0.1	SE227223.040	%	60 - 130%	102
	TP35_0.2-0.3	SE227223.041	%	60 - 130%	97
	TP36_0.0-0.1	SE227223.042	%	60 - 130%	99
	TP37_0.0-0.2	SE227223.043	%	60 - 130%	97
	TP38_0.1-0.3	SE227223.044	%	60 - 130%	73
	TP39_0.0-0.2	SE227223.045	%	60 - 130%	78
	TP40_0.0-0.1	SE227223.046	%	60 - 130%	77
	TP41_0.1-0.2	SE227223.047	%	60 - 130%	78
	TP42_0.2-0.4	SE227223.048	%	60 - 130%	71
	QZ05	SE227223.049	%	60 - 130%	76
	TP43_0.1-0.2	SE227223.050	%	60 - 130%	77
	TP44_0.0-0.2	SE227223.051	%	60 - 130%	74
	TP45_0.0-0.2	SE227223.052	%	60 - 130%	79
	TP46_0.1-0.3	SE227223.053	%	60 - 130%	77
	TP47_0.0-0.1	SE227223.054	%	60 - 130%	81
	TP48_0.0-0.1	SE227223.055	%	60 - 130%	83
	TP49_0.0-0.2	SE227223.056	%	60 - 130%	79
	TP49_0.4-0.5	SE227223.057	%	60 - 130%	75
	QZ06	SE227223.058	%	60 - 130%	72
	TP51_0.0-0.2	SE227223.059	%	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 identifier 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)	TP52_0.0-0.1	SE227223.060	%	60 - 130%	86
	TP53_0.0-0.2	SE227223.061	%	60 - 130%	80
	TP54_0.0-0.2	SE227223.062	%	60 - 130%	81
d8-toluene (Surrogate)	TP01_0.0-0.2	SE227223.001	%	60 - 130%	101
	QZ01	SE227223.002	%	60 - 130%	100
	TP02_0.0-0.1	SE227223.003	%	60 - 130%	94
	TP03_0.0-0.2	SE227223.004	%	60 - 130%	104
	TP04_0.0-0.1	SE227223.005	%	60 - 130%	95
	TP05_0.0-0.1	SE227223.006	%	60 - 130%	96
	TP06_0.4-0.5	SE227223.007	%	60 - 130%	100
	TP06_0.7-0.9	SE227223.008	%	60 - 130%	103
	TP07_0.2-0.3	SE227223.009	%	60 - 130%	102
	TP07_0.9-1.1	SE227223.010	%	60 - 130%	108
	TP08_0.4-0.5	SE227223.011	%	60 - 130%	107
	QZ02	SE227223.012	%	60 - 130%	108
	TP08_0.8-0.9	SE227223.013	%	60 - 130%	98
	TP10_0.1-0.2	SE227223.014	%	60 - 130%	101
	TP11_0.1-0.2	SE227223.015	%	60 - 130%	102
	TP12_0.0-0.2	SE227223.016	%	60 - 130%	100
	TP13_0.0-0.1	SE227223.017	%	60 - 130%	99
	TP14_0.0-0.1	SE227223.018	%	60 - 130%	101
	TP15_0.0-0.2	SE227223.019	%	60 - 130%	83
	QZ03	SE227223.020	%	60 - 130%	95
	TP16_0.0-0.2	SE227223.021	%	60 - 130%	96
	TP17_0.0-0.2	SE227223.022	%	60 - 130%	95
	TP18_0.0-0.2	SE227223.023	%	60 - 130%	92
	TP19_0.0-0.2	SE227223.024	%	60 - 130%	96
	TP20_0.0-0.2	SE227223.025	%	60 - 130%	89
	TP21_0.0-0.2	SE227223.026	%	60 - 130%	93
	TP22_0.0-0.2	SE227223.027	%	60 - 130%	88
	TP34_0.0-0.1	SE227223.040	%	60 - 130%	97
	TP35_0.2-0.3	SE227223.041	%	60 - 130%	93
	TP36_0.0-0.1	SE227223.042	%	60 - 130%	94
	TP37_0.0-0.2	SE227223.043	%	60 - 130%	91
	TP38_0.1-0.3	SE227223.044	%	60 - 130%	68
	TP39_0.0-0.2	SE227223.045	%	60 - 130%	74
	TP40_0.0-0.1	SE227223.046	%	60 - 130%	72
	TP41_0.1-0.2	SE227223.047	%	60 - 130%	76
	TP42_0.2-0.4	SE227223.048	%	60 - 130%	65
	QZ05	SE227223.049	%	60 - 130%	71
	TP43_0.1-0.2	SE227223.050	%	60 - 130%	77
	TP44_0.0-0.2	SE227223.051	%	60 - 130%	71
	TP45_0.0-0.2	SE227223.052	%	60 - 130%	77
	TP46_0.1-0.3	SE227223.053	%	60 - 130%	75
	TP47_0.0-0.1	SE227223.054	%	60 - 130%	81
	TP48_0.0-0.1	SE227223.055	%	60 - 130%	82
	TP49_0.0-0.2	SE227223.056	%	60 - 130%	75
	TP49_0.4-0.5	SE227223.057	%	60 - 130%	73
	QZ06	SE227223.058	%	60 - 130%	68
	TP51_0.0-0.2	SE227223.059	%	60 - 130%	78
	TP52_0.0-0.1	SE227223.060	%	60 - 130%	85
	TP53_0.0-0.2	SE227223.061	%	60 - 130%	77
	TP54_0.0-0.2	SE227223.062	%	60 - 130%	79

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.

Mercury in Soil

Method: ME-(AU)-ENVJAN312

Sample Number	Parameter	Units	LOR	Result
LB239749.001	Mercury	mg/kg	0.05	<0.05
LB239750.001	Mercury	mg/kg	0.05	<0.05
LB239751.001	Mercury	mg/kg	0.05	<0.05
LB239761.001	Mercury	mg/kg	0.05	<0.05

OC Pesticides in Soil

Method: ME-(AU)-ENVJAN420

Sample Number	Parameter	Units	LOR	Result
LB239579.001	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)	%	-	78
LB239581.001	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)	%	-	76

OP Pesticides in Soil

Method: ME-(AU)-ENVJAN420

Sample Number	Parameter	Units	LOR	Result
LB239579.001	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

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)-ENVJAN420

Sample Number	Parameter	Units	LOR	Result
LB239579.001	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)	%	-	86
LB239581.001	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
Surrogates	Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2
	2-fluorobiphenyl (Surrogate)	%	-	97
	d14-p-terphenyl (Surrogate)	%	-	103

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-ENVJAN420

Sample Number	Parameter	Units	LOR	Result
LB239579.001	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)	%	-	84
	2-fluorobiphenyl (Surrogate)	%	-	84
	d14-p-terphenyl (Surrogate)	%	-	86
LB239580.001	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

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
LB239580.001	Total PAH (18)	mg/kg	0.8	<0.8
	d5-nitrobenzene (Surrogate)	%	-	88
	2-fluorobiphenyl (Surrogate)	%	-	92
	d14-p-terphenyl (Surrogate)	%	-	94
LB239581.001	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
	d5-nitrobenzene (Surrogate)	%	-	98
	2-fluorobiphenyl (Surrogate)	%	-	97
	d14-p-terphenyl (Surrogate)	%	-	103

PCBs in Soil

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

Sample Number	Parameter	Units	LOR	Result
LB239579.001	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
	Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	78
LB239581.001	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
	Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	76

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

Method: ME-(AU)-[ENV]AN040/AN320

Sample Number	Parameter	Units	LOR	Result
LB239743.001	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
LB239745.001	Arsenic, As	mg/kg	1	<1
	Cadmium, Cd	mg/kg	0.3	<0.3
	Chromium, Cr	mg/kg	0.5	<0.5

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.

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES (continued)

Method: ME-(AU)-ENVJAN040/AN320

Sample Number	Parameter	Units	LOR	Result
LB239745.001	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
LB239747.001	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
LB239760.001	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

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-ENVJAN403

Sample Number	Parameter	Units	LOR	Result
LB239579.001	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
LB239580.001	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
LB239581.001	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

VOC's in Soil

Method: ME-(AU)-ENVJAN433

Sample Number		Parameter	Units	LOR	Result
LB239626.001	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)	%	-	116
		d8-toluene (Surrogate)	%	-	112
		Bromofluorobenzene (Surrogate)	%	-	97
	Totals	Total BTEX	mg/kg	0.6	<0.6
LB239627.001	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)	%	-	108
		d8-toluene (Surrogate)	%	-	106
		Bromofluorobenzene (Surrogate)	%	-	93
	Totals	Total BTEX	mg/kg	0.6	<0.6
LB239628.001	Monocyclic Aromatic Hydrocarbons	Benzene	mg/kg	0.1	<0.1
		Toluene	mg/kg	0.1	<0.1
		Ethylbenzene	mg/kg	0.1	<0.1

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.

VOC's in Soil (continued)

Method: ME-(AU)-ENVJAN433

Sample Number	Parameter	Units	LOR	Result
LB239628.001	Monocyclic Aromatic	m/p-xylene	0.2	<0.2
	Hydrocarbons	o-xylene	0.1	<0.1
	Polycyclic VOCs	Naphthalene (VOC)	0.1	<0.1
	Surrogates	d4-1,2-dichloroethane (Surrogate)	-	90
		d8-toluene (Surrogate)	-	91
		Bromofluorobenzene (Surrogate)	-	92
Totals	Total BTEX	mg/kg	0.6	<0.6

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-ENVJAN433

Sample Number	Parameter	Units	LOR	Result
LB239626.001	TRH C6-C9	mg/kg	20	<20
	Surrogates	d4-1,2-dichloroethane (Surrogate)	-	116
LB239627.001	TRH C6-C9	mg/kg	20	<20
	Surrogates	d4-1,2-dichloroethane (Surrogate)	-	108
LB239628.001	TRH C6-C9	mg/kg	20	<20
	Surrogates	d4-1,2-dichloroethane (Surrogate)	-	90

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: $RPD = | \text{OriginalResult} - \text{ReplicateResult} | \times 100 / \text{Mean}$

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: $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

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 identifier 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 in Soil

Method: ME-(AU)-ENVJAN312

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE227223.010	LB239749.014	Mercury	mg/kg	0.05	<0.05	<0.05	200	0
SE227223.019	LB239749.024	Mercury	mg/kg	0.05	<0.05	<0.05	152	0
SE227223.029	LB239750.014	Mercury	mg/kg	0.05	<0.05	<0.05	200	0
SE227223.038	LB239750.024	Mercury	mg/kg	0.05	<0.05	<0.05	200	0
SE227223.048	LB239751.014	Mercury	mg/kg	0.05	<0.05	<0.05	200	0
SE227223.057	LB239751.024	Mercury	mg/kg	0.05	<0.05	<0.05	161	0
SE227223.062	LB239761.009	Mercury	mg/kg	0.05	<0.05	<0.05	132	0

Moisture Content

Method: ME-(AU)-ENVJAN002

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE227223.010	LB239620.011	% Moisture	%w/w	1	18.7	18.3	35	2
SE227223.018	LB239620.020	% Moisture	%w/w	1	16.6	16.9	36	2
SE227223.028	LB239623.011	% Moisture	%w/w	1	8.4	9.1	41	7
SE227223.038	LB239623.022	% Moisture	%w/w	1	9.3	8.8	41	5
SE227223.043	LB239623.028	% Moisture	%w/w	1	22.9	19.7	35	15
SE227223.053	LB239625.011	% Moisture	%w/w	1	20.2	19.2	35	5
SE227223.067	LB239625.022	% Moisture	%w/w	1	<1	<1	200	0

OC Pesticides in Soil

Method: ME-(AU)-ENVJAN420

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE227223.010	LB239579.014	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	-	0.12	0.12	30	6
SE227223.018	LB239579.023	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

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: $RPD = | \text{OriginalResult} - \text{ReplicateResult} | \times 100 / \text{Mean}$

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: $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

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 identifier 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)-ENVJAN420

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE227223.018	LB239579.023	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						
SE227223.053	LB239581.014	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.12	0.13	30	8
		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	-	0.12	0.13	30	2
SE227223.062	LB239581.024	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
		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

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: $RPD = | \text{OriginalResult} - \text{ReplicateResult} | \times 100 / \text{Mean}$

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: $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

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 identifier 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 %
SE227223.062	LB239581.024	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	0.13	30	3

OP Pesticides in Soil

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

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE227223.010	LB239579.014	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
		Methodathion	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
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.4	30	0
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.4	30	0
SE227223.018	LB239579.023	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
		Methodathion	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
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.4	30	0
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	0
SE227223.053	LB239581.014	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
		Methodathion	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
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	1

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: $RPD = | \text{OriginalResult} - \text{ReplicateResult} | \times 100 / \text{Mean}$

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: $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

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 identifier 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)-ENVJAN420

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE227223.053	LB239581.014	Surrogates	d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	2
SE227223.062	LB239581.024		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
			Methodathion	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	2
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	2

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-ENVJAN420

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE227223.010	LB239579.014	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	-	0.4	0.4	30
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.4	30	0
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.4	30	0
SE227223.018	LB239579.023	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

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: $RPD = | \text{OriginalResult} - \text{ReplicateResult} | \times 100 / \text{Mean}$

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: $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

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 identifier 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)-ENVJAN420

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE227223.018	LB239579.023	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
		d5-nitrobenzene (Surrogate)	mg/kg	-	0.4	0.4	30	2
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.4	30	0
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	0
SE227223.040	LB239580.014	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
		d5-nitrobenzene (Surrogate)	mg/kg	-	0.4	0.4	30	3
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.4	30	2
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.4	30	5
SE227223.053	LB239581.014	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
		d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	30	2
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	1
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	2
SE227223.062	LB239581.024	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

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: $RPD = | \text{OriginalResult} - \text{ReplicateResult} | \times 100 / \text{Mean}$

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: $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

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 identifier 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)-ENVJAN420

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE227223.062	LB239581.024	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	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)-ENVJAN420

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE227223.010	LB239579.014	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
SE227223.018	LB239579.023	Surrogates						
		Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0	0	30	6
		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
SE227223.053	LB239581.014	Surrogates						
		Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0	0	30	8
		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
SE227223.062	LB239581.024	Surrogates						
		Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0	0	30	2
		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

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: $RPD = | \text{OriginalResult} - \text{ReplicateResult} | \times 100 / \text{Mean}$

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: $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

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 identifier 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 %
SE227223.062	LB239581.024	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	30	3

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 %
SE227223.010	LB239743.014	Arsenic, As	mg/kg	1	6	6	46	3
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	11	12	34	14
		Copper, Cu	mg/kg	0.5	16	16	33	1
		Nickel, Ni	mg/kg	0.5	7.6	8.3	36	9
		Lead, Pb	mg/kg	1	15	14	37	8
		Zinc, Zn	mg/kg	2	26	25	38	3
SE227223.019	LB239743.024	Arsenic, As	mg/kg	1	9	8	42	6
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	190	0
		Chromium, Cr	mg/kg	0.5	14	15	33	9
		Copper, Cu	mg/kg	0.5	12	9.2	35	23
		Nickel, Ni	mg/kg	0.5	8.1	8.5	36	5
		Lead, Pb	mg/kg	1	18	19	35	6
		Zinc, Zn	mg/kg	2	26	26	38	1
SE227223.029	LB239745.014	Arsenic, As	mg/kg	1	5	5	49	2
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	14	11	34	20
		Copper, Cu	mg/kg	0.5	41	40	31	1
		Nickel, Ni	mg/kg	0.5	35	31	32	11
		Lead, Pb	mg/kg	1	11	11	39	3
		Zinc, Zn	mg/kg	2	65	78	33	18
SE227223.038	LB239745.024	Arsenic, As	mg/kg	1	4	2	59	58
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	6.9	4.9	38	35
		Copper, Cu	mg/kg	0.5	170	190	30	12
		Nickel, Ni	mg/kg	0.5	8.3	6.6	37	23
		Lead, Pb	mg/kg	1	10	7	42	33
		Zinc, Zn	mg/kg	2	51	38	35	29
SE227223.048	LB239747.014	Arsenic, As	mg/kg	1	4	4	54	3
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	12	12	34	7
		Copper, Cu	mg/kg	0.5	20	19	33	2
		Nickel, Ni	mg/kg	0.5	20	19	33	8
		Lead, Pb	mg/kg	1	12	11	39	4
		Zinc, Zn	mg/kg	2	27	27	37	0
SE227223.057	LB239747.024	Arsenic, As	mg/kg	1	11	10	39	8
		Cadmium, Cd	mg/kg	0.3	0.6	0.8	73	21
		Chromium, Cr	mg/kg	0.5	11	11	34	2
		Copper, Cu	mg/kg	0.5	32	33	32	5
		Nickel, Ni	mg/kg	0.5	14	13	34	4
		Lead, Pb	mg/kg	1	59	49	32	19
		Zinc, Zn	mg/kg	2	130	130	32	2
SE227373.002	LB239760.013	Lead, Pb	mg/kg	1	420	630	30	41 @
		Zinc, Zn	mg/kg	2	4400	3900	30	13

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE227223.010	LB239579.014	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: $RPD = | \text{OriginalResult} - \text{ReplicateResult} | \times 100 / \text{Mean}$

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: $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

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 identifier 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)-ENVJAN403

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE227223.010	LB239579.014	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
SE227223.018	LB239579.023	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
SE227223.040	LB239580.014	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
SE227223.053	LB239581.014	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
SE227223.062	LB239581.024	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

VOC's in Soil

Method: ME-(AU)-ENVJAN403

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE227223.010	LB239626.014	Monocyclic	Benzene	mg/kg	0.1	<0.1	<0.1	200	0
			Aromatic	Toluene	mg/kg	0.1	<0.1	<0.1	200
			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	-	11.1	11.0	50	0
			d8-toluene (Surrogate)	mg/kg	-	10.8	10.7	50	1
			Bromofluorobenzene (Surrogate)	mg/kg	-	9.2	9.2	50	0
		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
		SE227223.018	LB239626.023	Monocyclic	Benzene	mg/kg	0.1	<0.1	<0.1
Aromatic	Toluene			mg/kg	0.1	<0.1	<0.1	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: $RPD = |OriginalResult - ReplicateResult| \times 100 / Mean$

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: $MAD = 100 \times SDL / Mean + LR$

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 identifier 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)-ENVJAN433

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %		
SE227223.018	LB239626.023	Monocyclic Aromatic	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	-	10.3	9.5	50	7	
				d8-toluene (Surrogate)	mg/kg	-	10.1	9.2	50	9	
		Bromofluorobenzene (Surrogate)		mg/kg	-	8.7	7.9	50	10		
		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		
SE227223.040	LB239627.014	Monocyclic Aromatic	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	-	10.2	9.8	50	4	
		d8-toluene (Surrogate)		mg/kg	-	9.7	9.5	50	2		
		Bromofluorobenzene (Surrogate)		mg/kg	-	8.3	7.9	50	5		
		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	
		SE227223.053	LB239628.015	Monocyclic Aromatic	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	-	7.7	7.5	50	2	
d8-toluene (Surrogate)				mg/kg	-	7.5	7.3	50	3		
Bromofluorobenzene (Surrogate)				mg/kg	-	7.8	7.5	50	3		
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	
SE227223.062	LB239628.031			Monocyclic Aromatic	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	-	8.1	7.6	50	7	
		d8-toluene (Surrogate)		mg/kg	-	7.9	7.4	50	7		
		Bromofluorobenzene (Surrogate)		mg/kg	-	7.8	7.6	50	3		
		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		

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-ENVJAN433

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %	
SE227223.010	LB239626.014	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	-	11.1	11.0	30	0
			d8-toluene (Surrogate)	mg/kg	-	10.8	10.7	30	1
			Bromofluorobenzene (Surrogate)	mg/kg	-	9.2	9.2	30	0
		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
		SE227223.018	LB239626.023	TRH C6-C10	mg/kg	25	<25	<25	200
TRH C6-C9	mg/kg			20	<20	<20	200	0	
Surrogates	d4-1,2-dichloroethane (Surrogate)			mg/kg	-	10.3	9.5	30	7
	d8-toluene (Surrogate)			mg/kg	-	10.1	9.2	30	9
	Bromofluorobenzene (Surrogate)			mg/kg	-	8.7	7.9	30	10
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
SE227223.040	LB239627.014			TRH C6-C10	mg/kg	25	<25	<25	200
		TRH C6-C9	mg/kg	20	<20	<20	200	0	

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: $RPD = | \text{OriginalResult} - \text{ReplicateResult} | \times 100 / \text{Mean}$

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: $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

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 identifier 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 Soil (continued)

Method: ME-(AU)-ENVJAN433

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE227223.040	LB239627.014	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	10.2	9.8	30
			d8-toluene (Surrogate)	mg/kg	-	9.7	9.5	30
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.3	7.9	30
		VPH F Bands	Benzene (F0)	mg/kg	0.1	<0.1	<0.1	200
			TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	200
			TRH C6-C9	mg/kg	20	<20	<20	200
SE227223.053	LB239628.015	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	7.7	7.5	30
			d8-toluene (Surrogate)	mg/kg	-	7.5	7.3	30
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.8	7.5	30
		VPH F Bands	Benzene (F0)	mg/kg	0.1	<0.1	<0.1	200
			TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	200
			TRH C6-C9	mg/kg	20	<20	<20	200
SE227223.062	LB239628.031	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.1	7.6	30
			d8-toluene (Surrogate)	mg/kg	-	7.9	7.4	30
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.8	7.6	30
		VPH F Bands	Benzene (F0)	mg/kg	0.1	<0.1	<0.1	200
			TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	200
			TRH C6-C9	mg/kg	20	<20	<20	200

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.

Mercury in Soil

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB239749.002	Mercury	mg/kg	0.05	0.24	0.2	70 - 130	118
LB239750.002	Mercury	mg/kg	0.05	0.26	0.2	70 - 130	128
LB239751.002	Mercury	mg/kg	0.05	0.22	0.2	70 - 130	112
LB239761.002	Mercury	mg/kg	0.05	0.22	0.2	70 - 130	112

OC Pesticides in Soil

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB239579.002	Heptachlor	mg/kg	0.1	0.2	0.2	60 - 140	83
	Aldrin	mg/kg	0.1	0.2	0.2	60 - 140	80
	Delta BHC	mg/kg	0.1	0.2	0.2	60 - 140	75
	Dieldrin	mg/kg	0.2	<0.2	0.2	60 - 140	82
	Endrin	mg/kg	0.2	<0.2	0.2	60 - 140	89
	p,p'-DDT	mg/kg	0.1	0.2	0.2	60 - 140	83
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.13	0.15	40 - 130
LB239581.002	Heptachlor	mg/kg	0.1	0.1	0.2	60 - 140	75
	Aldrin	mg/kg	0.1	0.1	0.2	60 - 140	74
	Delta BHC	mg/kg	0.1	0.2	0.2	60 - 140	75
	Dieldrin	mg/kg	0.2	<0.2	0.2	60 - 140	73
	Endrin	mg/kg	0.2	<0.2	0.2	60 - 140	80
	p,p'-DDT	mg/kg	0.1	0.2	0.2	60 - 140	81
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.12	0.15	40 - 130

OP Pesticides in Soil

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %	
LB239579.002	Dichlorvos	mg/kg	0.5	1.8	2	60 - 140	88	
	Diazinon (Dimpylate)	mg/kg	0.5	1.9	2	60 - 140	96	
	Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	2.0	2	60 - 140	98	
	Ethion	mg/kg	0.2	1.8	2	60 - 140	89	
	Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.5	40 - 130	82
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.5	40 - 130	84
LB239581.002	Dichlorvos	mg/kg	0.5	1.8	2	60 - 140	91	
	Diazinon (Dimpylate)	mg/kg	0.5	2.1	2	60 - 140	105	
	Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	2.0	2	60 - 140	102	
	Ethion	mg/kg	0.2	2.7	2	60 - 140	133	
	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	94

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %	
LB239579.002	Naphthalene	mg/kg	0.1	4.0	4	60 - 140	101	
	Acenaphthylene	mg/kg	0.1	3.8	4	60 - 140	94	
	Acenaphthene	mg/kg	0.1	3.7	4	60 - 140	93	
	Phenanthrene	mg/kg	0.1	4.0	4	60 - 140	99	
	Anthracene	mg/kg	0.1	3.7	4	60 - 140	93	
	Fluoranthene	mg/kg	0.1	3.7	4	60 - 140	94	
	Pyrene	mg/kg	0.1	3.7	4	60 - 140	94	
	Benzo(a)pyrene	mg/kg	0.1	3.9	4	60 - 140	97	
	Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.4	0.5	40 - 130	80
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.5	40 - 130	82
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.5	40 - 130	84
LB239580.002	Naphthalene	mg/kg	0.1	4.0	4	60 - 140	101	
	Acenaphthylene	mg/kg	0.1	3.7	4	60 - 140	93	
	Acenaphthene	mg/kg	0.1	3.7	4	60 - 140	92	
	Phenanthrene	mg/kg	0.1	4.0	4	60 - 140	100	
	Anthracene	mg/kg	0.1	3.8	4	60 - 140	94	
	Fluoranthene	mg/kg	0.1	3.8	4	60 - 140	94	
	Pyrene	mg/kg	0.1	3.8	4	60 - 140	95	
	Benzo(a)pyrene	mg/kg	0.1	3.8	4	60 - 140	96	
	Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.4	0.5	40 - 130	84
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.5	40 - 130	86
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	92
LB239581.002	Naphthalene	mg/kg	0.1	4.4	4	60 - 140	109	

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.

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB239581.002	Acenaphthylene	mg/kg	0.1	4.4	4	60 - 140	109
	Acenaphthene	mg/kg	0.1	3.9	4	60 - 140	98
	Phenanthrene	mg/kg	0.1	4.3	4	60 - 140	107
	Anthracene	mg/kg	0.1	4.0	4	60 - 140	100
	Fluoranthene	mg/kg	0.1	4.0	4	60 - 140	101
	Pyrene	mg/kg	0.1	4.3	4	60 - 140	107
	Benzo(a)pyrene	mg/kg	0.1	4.2	4	60 - 140	104
	Surrogates						
	d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	95
	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	94
	d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	94

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB239579.002	Arochlor 1260	mg/kg	0.2	0.4	0.4	60 - 140	110
LB239581.002	Arochlor 1260	mg/kg	0.2	0.3	0.4	60 - 140	86

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 %
LB239743.002	Arsenic, As	mg/kg	1	330	318.22	80 - 120	104
	Cadmium, Cd	mg/kg	0.3	4.1	4.81	70 - 130	85
	Chromium, Cr	mg/kg	0.5	37	38.31	80 - 120	98
	Copper, Cu	mg/kg	0.5	300	290	80 - 120	105
	Nickel, Ni	mg/kg	0.5	190	187	80 - 120	101
	Lead, Pb	mg/kg	1	91	89.9	80 - 120	101
	Zinc, Zn	mg/kg	2	270	273	80 - 120	99
LB239745.002	Arsenic, As	mg/kg	1	330	318.22	80 - 120	102
	Cadmium, Cd	mg/kg	0.3	3.7	4.81	70 - 130	77
	Chromium, Cr	mg/kg	0.5	39	38.31	80 - 120	102
	Copper, Cu	mg/kg	0.5	300	290	80 - 120	103
	Nickel, Ni	mg/kg	0.5	180	187	80 - 120	98
	Lead, Pb	mg/kg	1	87	89.9	80 - 120	97
	Zinc, Zn	mg/kg	2	260	273	80 - 120	96
LB239747.002	Arsenic, As	mg/kg	1	330	318.22	80 - 120	103
	Cadmium, Cd	mg/kg	0.3	4.1	4.81	70 - 130	85
	Chromium, Cr	mg/kg	0.5	37	38.31	80 - 120	97
	Copper, Cu	mg/kg	0.5	310	290	80 - 120	106
	Nickel, Ni	mg/kg	0.5	190	187	80 - 120	101
	Lead, Pb	mg/kg	1	91	89.9	80 - 120	101
	Zinc, Zn	mg/kg	2	270	273	80 - 120	98
LB239760.002	Arsenic, As	mg/kg	1	360	318.22	80 - 120	112
	Cadmium, Cd	mg/kg	0.3	4.3	4.81	70 - 130	90
	Chromium, Cr	mg/kg	0.5	38	38.31	80 - 120	99
	Copper, Cu	mg/kg	0.5	330	290	80 - 120	114
	Nickel, Ni	mg/kg	0.5	190	187	80 - 120	104
	Lead, Pb	mg/kg	1	94	89.9	80 - 120	105
	Zinc, Zn	mg/kg	2	290	273	80 - 120	106

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB239579.002	TRH C10-C14	mg/kg	20	44	40	60 - 140	110
	TRH C15-C28	mg/kg	45	<45	40	60 - 140	108
	TRH C29-C36	mg/kg	45	<45	40	60 - 140	80
	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	95
LB239580.002	TRH >C34-C40 (F4)	mg/kg	120	<120	20	60 - 140	85
	TRH C10-C14	mg/kg	20	50	40	60 - 140	125
	TRH C15-C28	mg/kg	45	<45	40	60 - 140	110
	TRH C29-C36	mg/kg	45	<45	40	60 - 140	93
	TRH F Bands						
	TRH >C10-C16	mg/kg	25	45	40	60 - 140	113
	TRH >C16-C34 (F3)	mg/kg	90	<90	40	60 - 140	105
	TRH >C34-C40 (F4)	mg/kg	120	<120	20	60 - 140	95

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.

TRH (Total Recoverable Hydrocarbons) in Soil (continued)
Method: ME-(AU)-[ENV]JAN403

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %	
LB239581.002	TRH C10-C14	mg/kg	20	50	40	60 - 140	125	
	TRH C15-C28	mg/kg	45	<45	40	60 - 140	108	
	TRH C29-C36	mg/kg	45	<45	40	60 - 140	90	
	TRH F Bands	TRH >C10-C16	mg/kg	25	45	40	60 - 140	113
		TRH >C16-C34 (F3)	mg/kg	90	<90	40	60 - 140	98
		TRH >C34-C40 (F4)	mg/kg	120	<120	20	60 - 140	90

VOC's in Soil
Method: ME-(AU)-[ENV]JAN433

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB239626.002	Monocyclic	Benzene	mg/kg	0.1	4.8	5	60 - 140	95
		Aromatic	Toluene	mg/kg	0.1	4.8	5	60 - 140
	Surrogates	Ethylbenzene	mg/kg	0.1	4.8	5	60 - 140	95
		m/p-xylene	mg/kg	0.2	9.3	10	60 - 140	93
		o-xylene	mg/kg	0.1	5.1	5	60 - 140	102
		d4-1,2-dichloroethane (Surrogate)	mg/kg	-	12.2	10	70 - 130	122
		d8-toluene (Surrogate)	mg/kg	-	11.4	10	70 - 130	114
		Bromofluorobenzene (Surrogate)	mg/kg	-	10.3	10	70 - 130	103
LB239627.002	Monocyclic	Benzene	mg/kg	0.1	4.4	5	60 - 140	88
		Aromatic	Toluene	mg/kg	0.1	4.5	5	60 - 140
	Surrogates	Ethylbenzene	mg/kg	0.1	4.6	5	60 - 140	92
		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
		d4-1,2-dichloroethane (Surrogate)	mg/kg	-	11.6	10	70 - 130	116
		d8-toluene (Surrogate)	mg/kg	-	11.3	10	70 - 130	113
		Bromofluorobenzene (Surrogate)	mg/kg	-	9.3	10	70 - 130	93
LB239628.002	Monocyclic	Benzene	mg/kg	0.1	4.0	5	60 - 140	79
		Aromatic	Toluene	mg/kg	0.1	4.2	5	60 - 140
	Surrogates	Ethylbenzene	mg/kg	0.1	3.9	5	60 - 140	78
		m/p-xylene	mg/kg	0.2	7.3	10	60 - 140	73
		o-xylene	mg/kg	0.1	4.0	5	60 - 140	80
		d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.8	10	70 - 130	98
		d8-toluene (Surrogate)	mg/kg	-	9.9	10	70 - 130	99
		Bromofluorobenzene (Surrogate)	mg/kg	-	8.3	10	70 - 130	83

Volatile Petroleum Hydrocarbons in Soil
Method: ME-(AU)-[ENV]JAN433

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %	
LB239626.002	TRH C6-C10	mg/kg	25	85	92.5	60 - 140	92	
	TRH C6-C9	mg/kg	20	73	80	60 - 140	92	
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	12.2	10	70 - 130	122
		Bromofluorobenzene (Surrogate)	mg/kg	-	10.3	10	70 - 130	103
	VPH F Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	56	62.5	60 - 140	90
LB239627.002	TRH C6-C10	mg/kg	25	71	92.5	60 - 140	77	
	TRH C6-C9	mg/kg	20	52	80	60 - 140	65	
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	11.6	10	70 - 130	116
		Bromofluorobenzene (Surrogate)	mg/kg	-	9.3	10	70 - 130	93
	VPH F Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	44	62.5	60 - 140	70
LB239628.002	TRH C6-C10	mg/kg	25	90	92.5	60 - 140	97	
	TRH C6-C9	mg/kg	20	79	80	60 - 140	99	
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.8	10	70 - 130	98
		Bromofluorobenzene (Surrogate)	mg/kg	-	8.3	10	70 - 130	83
	VPH F Bands	TRH C6-C10 minus BTEX (F1)	mg/ka	25	67	62.5	60 - 140	107

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 identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Mercury in Soil

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

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE227223.001	LB239749.004	Mercury	mg/kg	0.05	0.24	<0.05	0.2	110
SE227223.020	LB239750.004	Mercury	mg/kg	0.05	0.26	<0.05	0.2	108
SE227223.039	LB239751.004	Mercury	mg/kg	0.05	0.21	<0.05	0.2	100
SE227223.058	LB239761.004	Mercury	mg/kg	0.05	0.29	0.06	0.2	115

OC Pesticides in Soil

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

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE227223.001	LB239579.004	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	94
		Beta BHC	mg/kg	0.1	<0.1	<0.1	-	-
		Delta BHC	mg/kg	0.1	0.2	<0.1	0.2	91
		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	97
		Endrin	mg/kg	0.2	0.2	<0.2	0.2	104
		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	98
		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	-	-
SE227223.044	LB239581.004	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.12	0.11	79
		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	82
		Aldrin	mg/kg	0.1	0.2	<0.1	0.2	82
		Beta BHC	mg/kg	0.1	<0.1	<0.1	-	-
		Delta BHC	mg/kg	0.1	0.2	<0.1	0.2	72
		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	83
		Endrin	mg/kg	0.2	<0.2	<0.2	0.2	89
		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	92
		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	-	-

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 identifier 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]JAN420

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE227223.044	LB239581.004	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	-	87

OP Pesticides in Soil

Method: ME-(AU)-[ENV]JAN420

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE227223.001	LB239579.004	Dichlorvos	mg/kg	0.5	1.7	<0.5	2	85
		Dimethoate	mg/kg	0.5	<0.5	<0.5	-	-
		Diazinon (Dimpylate)	mg/kg	0.5	1.9	<0.5	2	96
		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	2.0	<0.2	2	100
		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	92
		Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	-	-
		Total OP Pesticides*	mg/kg	1.7	7.5	<1.7	-	-
	Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.4	-	86
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	90
	SE227223.044	LB239581.004	Dichlorvos	mg/kg	0.5	1.7	<0.5	2
Dimethoate			mg/kg	0.5	<0.5	<0.5	-	-
Diazinon (Dimpylate)			mg/kg	0.5	2.0	<0.5	2	99
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	97
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	2.5	<0.2	2	124
Azinphos-methyl (Guthion)			mg/kg	0.2	<0.2	<0.2	-	-
Total OP Pesticides*			mg/kg	1.7	8.1	<1.7	-	-
Surrogates		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.5	-	90
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	91

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]JAN420

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE227223.001	LB239579.004	Naphthalene	mg/kg	0.1	4.1	<0.1	4	102
		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	3.8	<0.1	4	95
		Acenaphthene	mg/kg	0.1	3.8	<0.1	4	94
		Fluorene	mg/kg	0.1	<0.1	<0.1	-	-
		Phenanthrene	mg/kg	0.1	4.0	<0.1	4	101
		Anthracene	mg/kg	0.1	3.8	<0.1	4	94
		Fluoranthene	mg/kg	0.1	3.8	<0.1	4	95
		Pyrene	mg/kg	0.1	3.8	<0.1	4	95
		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	3.9	<0.1	4	98
		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	3.9	<0.2	-	-
		Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	0.3	4.0	<0.3	-	-
		Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	4.0	<0.2	-	-
		Total PAH (18)	mg/kg	0.8	31	<0.8	-	-

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 identifier 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%
SE227223.001	LB239579.004	Surrogates						
		d5-nitrobenzene (Surrogate)	mg/kg	-	0.4	0.4	-	84
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.4	-	86
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	90
SE227223.019	LB239580.004	Naphthalene	mg/kg	0.1	3.9	<0.1	4	99
		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	3.7	<0.1	4	92
		Acenaphthene	mg/kg	0.1	3.7	<0.1	4	91
		Fluorene	mg/kg	0.1	<0.1	<0.1	-	-
		Phenanthrene	mg/kg	0.1	3.9	<0.1	4	98
		Anthracene	mg/kg	0.1	3.7	<0.1	4	92
		Fluoranthene	mg/kg	0.1	3.7	<0.1	4	93
		Pyrene	mg/kg	0.1	3.7	<0.1	4	93
		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	30	<0.8	-	-
		Surrogates						
		d5-nitrobenzene (Surrogate)	mg/kg	-	0.4	0.4	-	84
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.4	-	88
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.4	-	90
SE227223.044	LB239581.004	Naphthalene	mg/kg	0.1	4.2	<0.1	4	104
		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	102
		Acenaphthene	mg/kg	0.1	3.8	<0.1	4	94
		Fluorene	mg/kg	0.1	<0.1	<0.1	-	-
		Phenanthrene	mg/kg	0.1	4.1	<0.1	4	101
		Anthracene	mg/kg	0.1	3.8	<0.1	4	95
		Fluoranthene	mg/kg	0.1	3.8	<0.1	4	95
		Pyrene	mg/kg	0.1	4.1	<0.1	4	101
		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	3.9	<0.1	4	97
		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	3.9	<0.2	-	-
		Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	0.3	4.0	<0.3	-	-
		Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	4.0	<0.2	-	-
		Total PAH (18)	mg/kg	0.8	32	<0.8	-	-
		Surrogates						
		d5-nitrobenzene (Surrogate)	mg/kg	-	0.4	0.5	-	89
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.5	-	90
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	91

PCBs in Soil

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

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE227223.001	LB239579.004	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	-	-

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 identifier 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%
SE227223.001	LB239579.004	Arochlor 1254	mg/kg	0.2	<0.2	<0.2	-	-
		Arochlor 1260	mg/kg	0.2	0.5	<0.2	0.4	113
		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	-	79
SE227223.044	LB239581.004	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	0.4	<0.2	0.4	103
		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	mg/kg	-	0	0	-	87

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

Method: ME-(AU)-[ENV]AN040/AN320

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE227223.001	LB239743.004	Arsenic, As	mg/kg	1	52	8	50	90
		Cadmium, Cd	mg/kg	0.3	41	<0.3	50	81
		Chromium, Cr	mg/kg	0.5	69	23	50	91
		Copper, Cu	mg/kg	0.5	53	6.4	50	93
		Nickel, Ni	mg/kg	0.5	51	4.5	50	93
		Lead, Pb	mg/kg	1	63	22	50	81
		Zinc, Zn	mg/kg	2	57	14	50	87
SE227223.020	LB239745.004	Arsenic, As	mg/kg	1	50	9	50	83
		Cadmium, Cd	mg/kg	0.3	39	<0.3	50	79
		Chromium, Cr	mg/kg	0.5	55	17	50	76
		Copper, Cu	mg/kg	0.5	54	9.8	50	88
		Nickel, Ni	mg/kg	0.5	51	8.2	50	86
		Lead, Pb	mg/kg	1	56	19	50	75
		Zinc, Zn	mg/kg	2	61	26	50	70
SE227223.039	LB239747.004	Arsenic, As	mg/kg	1	49	5	50	88
		Cadmium, Cd	mg/kg	0.3	40	<0.3	50	80
		Chromium, Cr	mg/kg	0.5	49	6.9	50	83
		Copper, Cu	mg/kg	0.5	250	200	50	87
		Nickel, Ni	mg/kg	0.5	49	8.7	50	81
		Lead, Pb	mg/kg	1	50	9	50	81
		Zinc, Zn	mg/kg	2	90	45	50	90
SE227223.058	LB239760.004	Arsenic, As	mg/kg	1	55	12	50	86
		Cadmium, Cd	mg/kg	0.3	43	0.7	50	84
		Chromium, Cr	mg/kg	0.5	55	12	50	85
		Copper, Cu	mg/kg	0.5	75	35	50	80
		Nickel, Ni	mg/kg	0.5	55	19	50	70
		Lead, Pb	mg/kg	1	110	62	50	95
		Zinc, Zn	mg/kg	2	170	170	50	14 @

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE227223.001	LB239579.004	TRH C10-C14	mg/kg	20	47	<20	40	118
		TRH C15-C28	mg/kg	45	<45	<45	40	108
		TRH C29-C36	mg/kg	45	<45	<45	40	98
		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 >C10-C16	mg/kg	25	42	<25	40	105
		TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	42	<25	-	-
		TRH >C16-C34 (F3)	mg/kg	90	<90	<90	40	110
SE227223.019	LB239580.004	TRH >C34-C40 (F4)	mg/kg	120	<120	<120	-	-
		TRH C10-C14	mg/kg	20	47	<20	40	118

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 identifier 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%
SE227223.019	LB239580.004	TRH C15-C28	mg/kg	45	51	<45	40	128
		TRH C29-C36	mg/kg	45	45	<45	40	113
		TRH C37-C40	mg/kg	100	<100	<100	-	-
		TRH C10-C36 Total	mg/kg	110	140	<110	-	-
		TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	-	-
		TRH F	mg/kg	25	43	<25	40	108
		TRH >C10-C16	mg/kg	25	43	<25	-	-
		TRH >C16-C34 (F3)	mg/kg	90	<90	<90	40	108
SE227223.044	LB239581.004	TRH >C34-C40 (F4)	mg/kg	120	<120	<120	-	-
		TRH C10-C14	mg/kg	20	50	<20	40	125
		TRH C15-C28	mg/kg	45	<45	<45	40	108
		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	mg/kg	25	45	<25	40	113
		TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	45	<25	-	-
		TRH >C16-C34 (F3)	mg/kg	90	<90	<90	40	105
		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%
SE227223.001	LB239626.004	Monocyclic	Benzene	mg/kg	0.1	3.7	<0.1	5	74
			Aromatic	Toluene	mg/kg	0.1	3.8	<0.1	5
			Ethylbenzene	mg/kg	0.1	3.9	<0.1	5	77
			m/p-xylene	mg/kg	0.2	7.6	<0.2	10	76
			o-xylene	mg/kg	0.1	4.3	<0.1	5	86
		Polycyclic	Naphthalene (VOC)	mg/kg	0.1	<0.1	<0.1	-	-
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	10.1	10.4	10	101
			d8-toluene (Surrogate)	mg/kg	-	9.2	10.1	10	92
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.1	8.6	10	81
		Totals	Total Xylenes	mg/kg	0.3	12	<0.3	-	-
			Total BTEX	mg/kg	0.6	23	<0.6	-	-
SE227223.019	LB239627.004	Monocyclic	Benzene	mg/kg	0.1	3.4	<0.1	5	68
			Aromatic	Toluene	mg/kg	0.1	3.7	<0.1	5
			Ethylbenzene	mg/kg	0.1	3.7	<0.1	5	74
			m/p-xylene	mg/kg	0.2	7.5	<0.2	10	75
			o-xylene	mg/kg	0.1	4.2	<0.1	5	83
		Polycyclic	Naphthalene (VOC)	mg/kg	0.1	<0.1	<0.1	-	-
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.3	9.1	10	93
			d8-toluene (Surrogate)	mg/kg	-	8.6	8.3	10	86
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.6	7.8	10	76
		Totals	Total Xylenes	mg/kg	0.3	12	<0.3	-	-
			Total BTEX	mg/kg	0.6	23	<0.6	-	-
SE227223.044	LB239628.004	Monocyclic	Benzene	mg/kg	0.1	3.1	<0.1	5	63
			Aromatic	Toluene	mg/kg	0.1	3.4	<0.1	5
			Ethylbenzene	mg/kg	0.1	3.2	<0.1	5	64
			m/p-xylene	mg/kg	0.2	6.1	<0.2	10	61
			o-xylene	mg/kg	0.1	3.4	<0.1	5	68
		Polycyclic	Naphthalene (VOC)	mg/kg	0.1	<0.1	<0.1	-	-
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.6	7.3	10	86
			d8-toluene (Surrogate)	mg/kg	-	8.5	6.8	10	85
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.6	7.5	10	76
		Totals	Total Xylenes	mg/kg	0.3	9.5	<0.3	-	-
			Total BTEX	mg/kg	0.6	19	<0.6	-	-

Volatile Petroleum Hydrocarbons in Soil

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

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE227223.001	LB239626.004	TRH C6-C10	mg/kg	25	61	<25	92.5	66
		TRH C6-C9	mg/kg	20	53	<20	80	66
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	10.1	10	101
			d8-toluene (Surrogate)	mg/kg	-	9.2	10	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 identifier 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

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE227223.001	LB239626.004	Surrogates	Bromofluorobenzene (Surrogate)	mg/kg	-	8.1	8.6	-	81
		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
SE227223.019	LB239627.004		TRH C6-C10	mg/kg	25	60	<25	92.5	65
			TRH C6-C9	mg/kg	20	52	<20	80	65
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.3	9.1	10	93
			d8-toluene (Surrogate)	mg/kg	-	8.6	8.3	10	86
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.6	7.8	-	76
		VPH F	Benzene (F0)	mg/kg	0.1	3.4	<0.1	-	-
		Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	38	<25	62.5	60
SE227223.044	LB239628.004		TRH C6-C10	mg/kg	25	62	<25	92.5	66
			TRH C6-C9	mg/kg	20	54	<20	80	67
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.6	7.3	10	86
			d8-toluene (Surrogate)	mg/kg	-	8.5	6.8	10	85
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.6	7.5	-	76
		VPH F	Benzene (F0)	mg/kg	0.1	3.1	<0.1	-	-
		Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	42	<25	62.5	67

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula: $RPD = | \text{OriginalResult} - \text{ReplicateResult} | \times 100 / \text{Mean}$

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: $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

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 identifier 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.

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.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client only. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law .

This test report shall not be reproduced, except in full.

CLIENT DETAILS

Contact ADAM SULLIVAN
Client SULLIVAN ENVIRONMENTAL SCIENCES PTY. LIMITED
Address PO BOX 5248
TURRAMURRA NSW 2074

Telephone (Not specified)
Facsimile (Not specified)
Email ENQUIRIES@SULLIVAN-ES.COM.AU

Project **SES_631 Cobbilty**
Order Number **SES_631**
Samples 57

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 **SE227223 R0**
Date Received 16 Dec 2021
Date Reported 23 Dec 2021

COMMENTS

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

No respirable fibres detected in all soil samples using trace analysis technique.

Sample # 13 : A portion of the sample supplied has been sub-sampled for asbestos analysis in soil according to SGS In-house procedures. We therefore cannot guarantee that the sub-sample is representative of the entire sample supplied. SGS Industries and Environment recommends supplying approximately 50-100g of sample in a separate container.

Samples # 64-65 : No trace asbestos fibres detected using trace analysis technique.

Asbestos analysed by Approved Identifiers Yusuf Kuthpudin and Ravee Sivasubramaniam .

SIGNATORIES



Akheeque BENIAMEEN
Chemist



Bennet LO
Senior Chemist



Kamrul AHSAN
Senior Chemist



Ly Kim HA
Organic Section Head



Ravee SIVASUBRAMANIAM
Hygiene Team Leader

RESULTS

Fibre Identification in soil

Method AN602

Laboratory Reference	Client Reference	Matrix	Sample Description	Date Sampled	Fibre Identification	Est.%w/w*
SE227223.001	TP01_0.0-0.2	Soil	95g Clay,Soil,Rocks	13 Dec 2021	No Asbestos Found at RL of 0.1g/kg	<0.01
SE227223.003	TP02_0.0-0.1	Soil	100g Clay,Rocks	13 Dec 2021	No Asbestos Found at RL of 0.1g/kg	<0.01
SE227223.004	TP03_0.0-0.2	Soil	256g Clay,Rocks	13 Dec 2021	No Asbestos Found at RL of 0.1g/kg	<0.01
SE227223.005	TP04_0.0-0.1	Soil	144g Clay,Rocks	13 Dec 2021	No Asbestos Found at RL of 0.1g/kg	<0.01
SE227223.006	TP05_0.0-0.1	Soil	214g Clay,Rocks	13 Dec 2021	No Asbestos Found at RL of 0.1g/kg	<0.01
SE227223.007	TP06_0.4-0.5	Soil	101g Clay,Rocks	13 Dec 2021	No Asbestos Found at RL of 0.1g/kg	<0.01
SE227223.008	TP06_0.7-0.9	Soil	221g Clay,Rocks	13 Dec 2021	No Asbestos Found at RL of 0.1g/kg	<0.01
SE227223.009	TP07_0.2-0.3	Soil	159g Clay,Rocks	13 Dec 2021	No Asbestos Found at RL of 0.1g/kg	<0.01
SE227223.010	TP07_0.9-1.1	Soil	146g Clay,Rocks	13 Dec 2021	No Asbestos Found at RL of 0.1g/kg	<0.01
SE227223.011	TP08_0.4-0.5	Soil	82g Clay	13 Dec 2021	No Asbestos Found at RL of 0.1g/kg	<0.01
SE227223.013	TP08_0.8-0.9	Soil	68g Clay,Rocks	13 Dec 2021	No Asbestos Found at RL of 0.1g/kg	<0.01
SE227223.014	TP10_0.1-0.2	Soil	145g Clay,Rocks	13 Dec 2021	No Asbestos Found at RL of 0.1g/kg	<0.01
SE227223.015	TP11_0.1-0.2	Soil	178g Clay,Rocks	13 Dec 2021	No Asbestos Found at RL of 0.1g/kg	<0.01
SE227223.016	TP12_0.0-0.2	Soil	73g Clay,Soil,Rocks	13 Dec 2021	No Asbestos Found at RL of 0.1g/kg	<0.01
SE227223.017	TP13_0.0-0.1	Soil	127g Clay,Rocks	13 Dec 2021	No Asbestos Found at RL of 0.1g/kg	<0.01
SE227223.018	TP14_0.0-0.1	Soil	70g Clay,Rocks	13 Dec 2021	No Asbestos Found at RL of 0.1g/kg	<0.01
SE227223.019	TP15_0.0-0.2	Soil	131g Clay,Rocks	13 Dec 2021	No Asbestos Found at RL of 0.1g/kg	<0.01
SE227223.021	TP16_0.0-0.2	Soil	123g Clay,Rocks	13 Dec 2021	No Asbestos Found at RL of 0.1g/kg	<0.01
SE227223.022	TP17_0.0-0.2	Soil	81g Clay,Sand,Soil, Rocks	13 Dec 2021	No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	<0.01
SE227223.023	TP18_0.0-0.2	Soil	59g Clay,Sand,Soil, Rocks	13 Dec 2021	No Asbestos Found at RL of 0.1g/kg	<0.01
SE227223.024	TP19_0.0-0.2	Soil	83g Clay,Sand,Soil, Rocks	13 Dec 2021	No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	<0.01
SE227223.025	TP20_0.0-0.2	Soil	105g Clay,Sand,Soil, Rocks	13 Dec 2021	No Asbestos Found at RL of 0.1g/kg	<0.01
SE227223.026	TP21_0.0-0.2	Soil	151g Clay,Sand,Soil, Rocks	13 Dec 2021	No Asbestos Found at RL of 0.1g/kg	<0.01
SE227223.027	TP22_0.0-0.2	Soil	114g Clay,Rocks	13 Dec 2021	No Asbestos Found at RL of 0.1g/kg	<0.01
SE227223.028	TP23_0.1-0.3	Soil	132g Clay,Sand,Soil, Rocks	13 Dec 2021	No Asbestos Found at RL of 0.1g/kg	<0.01

RESULTS

Fibre Identification in soil

Method AN602

Laboratory Reference	Client Reference	Matrix	Sample Description	Date Sampled	Fibre Identification	Est.%w/w*
SE227223.029	TP24_0.1-0.3	Soil	210g Clay,Sand,Soil, Rocks,Bitumin	13 Dec 2021	No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	<0.01
SE227223.030	TP25_0.0-0.1	Soil	102g Clay,Sand,Soil, Rocks,Bitumin	13 Dec 2021	No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	<0.01
SE227223.031	TP26_0.1-0.3	Soil	113g Clay,Sand,Soil, Rocks	13 Dec 2021	No Asbestos Found at RL of 0.1g/kg	<0.01
SE227223.032	TP27_0.2-0.4	Soil	82g Clay,Sand,Soil, Rocks	13 Dec 2021	No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	<0.01
SE227223.033	TP28_0.1-0.3	Soil	91g Clay,Sand,Soil, Rocks	14 Dec 2021	No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	<0.01
SE227223.034	TP29_0.0-0.1	Soil	40g Clay,Soil,Rocks	14 Dec 2021	No Asbestos Found at RL of 0.1g/kg	<0.01
SE227223.035	TP30_0.0-0.1	Soil	94g Clay,Soil,Rocks	14 Dec 2021	No Asbestos Found at RL of 0.1g/kg	<0.01
SE227223.036	TP31_0.0-0.2	Soil	163g Clay,Soil,Rocks	14 Dec 2021	No Asbestos Found at RL of 0.1g/kg	<0.01
SE227223.037	TP32_0.1-0.2	Soil	102g Sand,Soil,Ceme nt Mixture	14 Dec 2021	No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	<0.01
SE227223.038	TP33_0.1-0.2	Soil	80g Clay,Sand,Soil, Rocks	14 Dec 2021	No Asbestos Found at RL of 0.1g/kg	<0.01
SE227223.040	TP34_0.0-0.1	Soil	141g Clay,Soil,Rocks	14 Dec 2021	No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	<0.01
SE227223.041	TP35_0.2-0.3	Soil	87g Clay,Sand,Soil, Rocks	14 Dec 2021	No Asbestos Found at RL of 0.1g/kg	<0.01
SE227223.044	TP38_0.1-0.3	Soil	74g Clay,Sand,Soil, Rocks	14 Dec 2021	No Asbestos Found at RL of 0.1g/kg	<0.01
SE227223.045	TP39_0.0-0.2	Soil	66g Clay,Sand,Soil, Rocks	14 Dec 2021	No Asbestos Found at RL of 0.1g/kg	<0.01
SE227223.046	TP40_0.0-0.1	Soil	98g Clay,Sand,Soil, Rocks	14 Dec 2021	No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	<0.01
SE227223.047	TP41_0.1-0.2	Soil	134g Clay,Rocks	14 Dec 2021	No Asbestos Found at RL of 0.1g/kg	<0.01
SE227223.048	TP42_0.2-0.4	Soil	74g Clay,Sand,Soil, Rocks	14 Dec 2021	No Asbestos Found at RL of 0.1g/kg	<0.01
SE227223.050	TP43_0.1-0.2	Soil	62g Clay,Sand,Soil, Rocks	14 Dec 2021	No Asbestos Found at RL of 0.1g/kg	<0.01
SE227223.051	TP44_0.0-0.2	Soil	93g Clay,Sand,Soil, Rocks	14 Dec 2021	No Asbestos Found at RL of 0.1g/kg	<0.01
SE227223.052	TP45_0.0-0.2	Soil	140g Clay,Sand,Soil, Rocks	14 Dec 2021	No Asbestos Found at RL of 0.1g/kg	<0.01
SE227223.053	TP46_0.1-0.3	Soil	97g Clay,Rocks	15 Dec 2021	No Asbestos Found at RL of 0.1g/kg	<0.01

RESULTS

Fibre Identification in soil

Method AN602

Laboratory Reference	Client Reference	Matrix	Sample Description	Date Sampled	Fibre Identification	Est.%w/w*
SE227223.054	TP47_0.0-0.1	Soil	77g Clay,Sand,Soil, Rocks,Plant Matter	15 Dec 2021	No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	<0.01
SE227223.055	TP48_0.0-0.1	Soil	68g Clay,Sand,Rock s	15 Dec 2021	No Asbestos Found at RL of 0.1g/kg	<0.01
SE227223.056	TP49_0.0-0.2	Soil	73g Clay,Sand,Soil, Rocks	15 Dec 2021	No Asbestos Found at RL of 0.1g/kg	<0.01
SE227223.059	TP51_0.0-0.2	Soil	77g Clay,Sand,Soil, Rocks	15 Dec 2021	No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	<0.01
SE227223.060	TP52_0.0-0.1	Soil	47g Clay,Sand,Soil, Rocks	15 Dec 2021	No Asbestos Found at RL of 0.1g/kg	<0.01
SE227223.061	TP53_0.0-0.2	Soil	68g Clay,Sand,Soil, Rocks	15 Dec 2021	No Asbestos Found at RL of 0.1g/kg	<0.01
SE227223.062	TP54_0.0-0.2	Soil	116g Clay,Sand,Soil, Rocks	15 Dec 2021	No Asbestos Found at RL of 0.1g/kg	<0.01

RESULTS

Fibre ID in bulk materials

Method AN602

Laboratory Reference	Client Reference	Matrix	Sample Description	Date Sampled	Fibre Identification	Est.%w/w*
SE227223.063	F01	Other	50x40x4mm Cement Sheet Fragment	14 Dec 2021	Amosite, Chrysotile & Crocidolite Asbestos Detected	
SE227223.064	F02	Other	65x40x4mm Cement Sheet Fragment	15 Dec 2021	No Asbestos Detected	
SE227223.065	F03	Other	200x50x4mm Cement Sheet Fragment	15 Dec 2021	No Asbestos Detected	
SE227223.066	F04	Other	200x65x5mm Cement Sheet Fragments x2	15 Dec 2021	Chrysotile Asbestos Detected	

METHOD

METHODOLOGY SUMMARY

AN602	Qualitative identification of chrysotile, amosite and crocidolite in bulk samples by polarised light microscopy (PLM) in conjunction with dispersion staining (DS). AS4964 provides the basis for this document. Unequivocal identification of the asbestos minerals present is made by obtaining sufficient diagnostic 'clues', which provide a reasonable degree of certainty, dispersion staining is a mandatory 'clue' for positive identification. If sufficient 'clues' are absent, then positive identification of asbestos is not possible. This procedure requires removal of suspect fibres/bundles from the sample which cannot be returned.
AN602	Fibres/material that cannot be unequivocally identified as one of the three asbestos forms, will be reported as unknown mineral fibres (umf) The fibres detected may or may not be asbestos fibres.
AN602	AS4964.2004 Method for the Qualitative Identification of Asbestos in Bulk Samples, Section 8.4, Trace Analysis Criteria, Note 4 states: "Depending upon sample condition and fibre type, the detection/reporting limit (RL) of this technique has been found to lie generally in the range of 1 in 1,000 to 1 in 10,000 parts by weight, equivalent to 1 to 0.1 g/kg."
AN602	The sample can be reported "no asbestos found at the reporting limit (RL) of 0.1 g/kg" (<0.01%w/w) where AN602 section 4.5 of this method has been followed, and if- (a) no trace asbestos fibres have been detected (i.e. no 'respirable' fibres); (b) the estimated weight of non-respirable asbestos fibre bundles and/or the estimated weight of asbestos in asbestos-containing materials are found to be less than 0.1g/kg; and (c) these non-respirable asbestos fibre bundles and/or the asbestos containing materials are only visible under stereo-microscope viewing conditions.

FOOTNOTES

Amosite	-	Brown Asbestos	NA	-	Not Analysed
Chrysotile	-	White Asbestos	LNR	-	Listed, Not Required
Crocidolite	-	Blue Asbestos	*	-	NATA accreditation does not cover the performance of this service.
Amphiboles	-	Amosite and/or Crocidolite	**	-	Indicative data, theoretical holding time exceeded.
			***	-	Indicates that both * and ** apply.

(In reference to soil samples only) This report does not comply with the analytical reporting recommendations in the Western Australian Department of Health Guidelines for the Assessment and Remediation and Management of Asbestos Contaminated sites in Western Australia - May 2009.

Unless it is reported that sampling has been performed by SGS, the samples have been analysed as received.

Where reported: 'Asbestos Detected': Asbestos detected by polarised light microscopy, including dispersion staining.

Where reported: 'No Asbestos Found': No Asbestos Found by polarised light microscopy, including dispersion staining.

Where reported: 'UMF Detected': Mineral fibres of unknown type detected by polarised light microscopy, including dispersion staining. Confirmation by another independent analytical technique may be necessary.

Even after disintegration it can be very difficult, or impossible, to detect the presence of asbestos in some asbestos-containing bulk materials using polarised light microscopy. This is due to the low grade or small length or diameter of asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials.

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.

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.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client only. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

This test report shall not be reproduced, except in full.



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:samplerreceipt@sgs.com

Company Name: Sullivan Environmental Sciences Pty Ltd
Address: PO Box 5248, Turramurra NSW 2074
Contact Name: Adam Sullivan

Project Name/No:
Purchase Order No:
Results Required By:
Telephone:
Facsimile:
Email Results:

SES-631 Cobbley
Standard TAT
0400500264
adam@sullivan-es.com.au and sean@sullivan-es.com.au

Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	PRESERVATIVE	NO OF CONTAINERS	Asbestos ID	CL2	CL10	CL17	BTEN
TP01_0-0-0-2	13/12/21	1		X		2	X		X		
QZ01		2				1			X		
TP02_0-0-0-1		3				2	X		X		
TP03_0-0-0-2		4					X		X		
TP04_0-0-0-1		5					X		X		
TP05_0-0-0-1		6					X		X		
TP06_0-4-0-5		7					X		X		
TP06_0-7-0-9		8					X		X		
TP07_0-2-0-3		9					X		X		
Relinquished By: <i>h.sullivan</i>	Date/Time: 16/12/21	4pm	Received By: <i>[Signature]</i>	Date/Time: 16/12/21 @ 4:30pm							
Relinquished By:	Date/Time:		Received By:	Date/Time:							
Samples Intact: ☒ Yes ☐ No	Temperature: Ambient / <i>42</i>	Sample Cooler Sealed: ☒ Yes ☐ No	Laboratory Quotation No: 6330860								
Comments:											

SGS EHS Sydney COC

SE227223





CHAIN OF CUSTODY & ANALYSIS REQUEST

Page 2 of 8

SGS Environmental Services

Unit 16, 33 Maddox Street

Alexandria NSW 2015

Telephone No: (02) 85940400

Facsimile No: (02) 85940499

Email: au.samplerreceipt.sydneey@sgs.com

Company Name:

Sullivan Environmental Sciences Pty Ltd

Project Name/No:

Address:

PO Box 5248, Turramurra NSW 2074

Purchase Order No:

Results Required By:

Standard TAT

Contact Name:

Adam Sullivan

Telephone:

0400500264

Facsimile:

Adam Sullivan

Email Results:

adam@sullivan-es.com.au and sean@sullivan-es.com.au

Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	PRESERVATIVE	NO OF CONTAINERS	Asbestos ID	CL2	CL10	CL17	BITEXN
TP07-0-9-1.1	13/12/21	10		X		N	X			X	
TP08-0-4-0.5		11				N	X			X	
Q202		12				N	X		X		
TP08-0-8-0.9		13				N	X			X	
TP10-0-1-0.2		14				N	X			X	
TP11-0-1-0.2		15				N	X			X	
TP12-0-0-0.2		16				N	X			X	
TP13-0-0-0.1		17				N	X			X	
TP14-0-0-0.1		18				N	X			X	
Relinquished By:	Date/Time:	Received By:	Date/Time:								
Relinquished By:	Date/Time:	Received By:	Date/Time:								
Samples Intact: ☒ Yes/ ☐ No	Temperature: Ambient / <u>Cooled</u>	Sample Cooler Sealed: ☒ Yes/ ☐ No	Comments:								



CHAIN OF CUSTODY & ANALYSIS REQUEST

Page 3 of 8

SGS Environmental Services
Unit 16, 33 Maddox Street
Alexandria NSW 2015
Telephone No: (02) 85940400
Facsimile No: (02) 85940499
Email: au.samplerreceipt.sydney@sgs.com

Company Name:	Sullivan Environmental Sciences Pty Ltd	Project Name/No:	
Address:	PO Box 5248, Turramurra NSW 2074	Purchase Order No:	
Contact Name:	Adam Sullivan	Results Required By:	Standard TAT
		Telephone:	0400500264
		Facsimile:	
		Email Results:	adam@sullivan-es.com.au and sean@sullivan-es.com.au

Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	PRESERVATIVE	NO OF CONTAINERS	Asbestos ID	CL2	CL10	CL17	BTExN
TP15-0-0-0-2	13/12/21	19		X		2	X		X		
QZ03		20							X		
TP16-0-0-0-2		21					X		X		
TP17-0-0-0-2		22					X		X		
TP18-0-0-0-2		23					X		X		
TP19-0-0-0-2		24					X		X		
TP20-0-0-0-2		25					X		X		
TP21-0-0-0-2		26					X		X		
TP22-0-0-0-2		27					X		X		
Relinquished By:		Date/Time:									
Relinquished By:		Date/Time:									
Samples Intact: Yes/No		Temperature: Ambient / Chilled									
		Comments:									



CHAIN OF CUSTODY & ANALYSIS REQUEST

Page 4 of 8

SGS Environmental Services
Unit 16, 33 Maddox Street
Alexandria NSW 2015
Telephone No: (02) 85940400
Facsimile No: (02) 85940499
Email: au.sampler@sgs.com

Company Name: Sullivan Environmental Sciences Pty Ltd
Address: PO Box 5248, Turramurra NSW 2074
Contact Name: Adam Sullivan

Project Name/No: _____
Purchase Order No: _____
Results Required By: _____
Telephone: 0400500264
Facsimile: _____
Email Results: adam@sullivan-es.com.au and sean@sullivan-es.com.au

Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	PRESERVATIVE	NO OF CONTAINERS	Asbestos ID	CL2	CL10	CL17	BTEXN	Received By:	Date/Time	Received By:	Date/Time	Laboratory Quotation No:
TP23_0.1-0.3	13/12/21	28		X		2	X	X								
TP24_0.1-0.3		29					X	X								
TP25_0.0-0.1		30					X	X								
TP26_0.1-0.3		31					X	X								
TP27_0.2-0.4		32					X	X								
TP28_0.1-0.3	14/12/21	33					X	X								
TP29_0.0-0.1		34					X	X								
TP30_0.0-0.1		35					X	X								
TP31_0.0-0.2		36					X	X								

Relinquished By: _____ Date/Time: _____
Relinquished By: _____ Date/Time: _____
Samples Intact: Yes No _____ Temperature: Ambient / Chilled _____
Comments: 4.0 Sample Cooler Sealed: Yes No _____



CHAIN OF CUSTODY & ANALYSIS REQUEST

Page 5 of 8

SGS Environmental Services

Unit 16, 33 Maddox Street

Alexandria NSW 2015

Telephone No: (02) 85940400

Facsimile No: (02) 85940499

Email: au.samplerreceipts@sgs.com

Company Name:

Sullivan Environmental Sciences Pty Ltd

Project Name/No:

Address:

PO Box 5248, Turramurra NSW 2074

Purchase Order No:

Contact Name:

Adam Sullivan

Results Required By:

Telephone:

Facsimile:

Email Results:

Standard TAT
0400500264adam@sullivan-es.com.au and sean@sullivan-es.com.au

Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	PRESERVATIVE	NO OF CONTAINERS	Asbestos ID	CL2	CL10	CL17	BTEXN	Date/Time
TP32-01-0.2	14/12/21	37		X		2	X	X				
TP33-01-0.2		38				2	X	X				
Q204		39				1	X	X				
TP34-0.0-0.1		40				2	X	X				
TP35-0.2-0.3		41				2	X	X				
TP36-0.0-0.1		42				1		X	X			
TP37-0.0-0.2		43						X	X			
TP38-0.1-0.3		44							X			
TP39-0.0-0.2		45				2	X			X		
Relinquished By:	Date/Time:	Received By:	Date/Time:									
Relinquished By:	Date/Time:	Received By:	Date/Time:									
Samples Intact: Yes/No	Temperature: Ambient / Chilled	Sample Cooler Sealed: Yes/No	Comments:									



CHAIN OF CUSTODY & ANALYSIS REQUEST

Page 7 of 8

SGS Environmental Services
Unit 16, 33 Maddox Street
Alexandria NSW 2015
Telephone No: (02) 85940400
Facsimile No: (02) 85940499
Email: au.samplerreceipt.sydney@sgs.com

Company Name: Sullivan Environmental Sciences Pty Ltd
Address: PO Box 5248, Turramurra NSW 2074
Contact Name: Adam Sullivan

Project Name/No: _____
Purchase Order No: _____
Results Required By: _____
Telephone: 0400500264
Facsimile: _____
Email Results: adam@sullivan-es.com.au and sean@sullivan-es.com.au

Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	PRESERVATIVE	NO OF CONTAINERS	Asbestos ID	CL2	CL10	CL17	BTExN								
TP48-0-0-0.1	15/12/21	ST		X		2	X												
TP49-0-0-0.2		ST				2	X												
TP49-0-4-0.5		ST				1	X												
Q206		ST				1	X												
TP51-0-0-0.2		ST				2	X												
TP52-0-0-0.1		GO					X												
TP53-0-0-0.2		GO					X												
TP54-0-0-0.2		GO					X												
FO1	14/12/21	GO					X												
Relinquished By:	Date/Time:	Received By:	Date/Time:																
Relinquished By:	Date/Time:	Received By:	Date/Time:																
Samples Intact: ☒ Yes/ ☐ No	Temperature: Ambient / <u>Cooled</u>	Sample Cooler Sealed: ☒ Yes/ ☐ No	Comments:																



SGS Environmental Services
Unit 16, 33 Maddox Street
Alexandria NSW 2015
Telephone No: (02) 85940400
Facsimile No: (02) 85940499
Email: au.samplerreceipt@sgs.com

CHAIN OF CUSTODY & ANALYSIS REQUEST

Page 8 of 8

Company Name:	Sullivan Environmental Sciences Pty Ltd	Project Name/No:	
Address:	PO Box 5248, Turramurra NSW 2074	Purchase Order No:	
Telephone No:		Results Required By:	
Facsimile No:		Standard TAT	
Contact Name:	Adam Sullivan	Telephone:	0400500264
		Facsimile:	
Email Results:	adam@sullivan-es.com.au and sean@sullivan-es.com.au		

Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	PRESERVATIVE	NO OF CONTAINERS	Asbestos ID	CL2	CL10	CL17	BTEXN								
F02	15/12/21	64				1	X												
F03	"	65				1	X												
F04	"	66				1	X												
Imp Blank 1	13/12/21	67		X							X								
Imp Spike A	"	68		X							X								
Relinquished By:	Date/Time:	Received By:	Date/Time																
Relinquished By:	Date/Time:	Received By:	Date/Time																
Samples Intact: <u>Yes</u> / No	Temperature: Ambient / <u>Chilled</u>	Sample Cooler Sealed: <u>Yes</u> / No	Laboratory Quotation No:																
Comments:																			



SAMPLE RECEIPT ADVICE

SE227223

CLIENT DETAILS

Contact ADAM SULLIVAN
Client SULLIVAN ENVIRONMENTAL SCIENCES PTY. LIMITED
Address PO BOX 5248
TURRAMURRA NSW 2074

Telephone (Not specified)
Facsimile (Not specified)
Email ENQUIRIES@SULLIVAN-ES.COM.AU

Project **SES_631 Cobbilty**
Order Number (Not specified)
Samples 68

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 Thu 16/12/2021
Report Due Thu 23/12/2021
SGS Reference **SE227223**

SUBMISSION DETAILS

This is to confirm that 68 samples were received on Thursday 16/12/2021. Results are expected to be ready by COB Thursday 23/12/2021. Please quote SGS reference SE227223 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
Samples received in correct containers	Yes	Sample counts by matrix	64 Soil, 4 Material
Date documentation received	16/12/2021	Type of documentation received	COC
Samples received in good order	Yes	Samples received without headspace	Yes
Sample temperature upon receipt	4.0°C	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

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.

CLIENT DETAILS

Client SULLIVAN ENVIRONMENTAL SCIENCES PTY. LIMITED

Project SES_631 Cobbilty

SUMMARY OF ANALYSIS

No.	Sample ID	OC Pesticides in Soil	OP Pesticides in Soil	PAH (Polynuclear Aromatic Hydrocarbons) in Soil	PCBs in Soil	Total Recoverable Elements in Soil/Waste	TRH (Total Recoverable Hydrocarbons) in Soil	VOC's in Soil	Volatile Petroleum Hydrocarbons in Soil
001	TP01_0.0-0.2	30	14	26	11	7	10	11	7
002	QZ01	-	-	26	-	7	10	11	7
003	TP02_0.0-0.1	30	14	26	11	7	10	11	7
004	TP03_0.0-0.2	30	14	26	11	7	10	11	7
005	TP04_0.0-0.1	30	14	26	11	7	10	11	7
006	TP05_0.0-0.1	30	14	26	11	7	10	11	7
007	TP06_0.4-0.5	30	14	26	11	7	10	11	7
008	TP06_0.7-0.9	30	14	26	11	7	10	11	7
009	TP07_0.2-0.3	30	14	26	11	7	10	11	7
010	TP07_0.9-1.1	30	14	26	11	7	10	11	7
011	TP08_0.4-0.5	30	14	26	11	7	10	11	7
012	QZ02	-	-	26	-	7	10	11	7
013	TP08_0.8-0.9	30	14	26	11	7	10	11	7
014	TP10_0.1-0.2	30	14	26	11	7	10	11	7
015	TP11_0.1-0.2	30	14	26	11	7	10	11	7
016	TP12_0.0-0.2	30	14	26	11	7	10	11	7
017	TP13_0.0-0.1	30	14	26	11	7	10	11	7
018	TP14_0.0-0.1	30	14	26	11	7	10	11	7
019	TP15_0.0-0.2	-	-	26	-	7	10	11	7
020	QZ03	-	-	26	-	7	10	11	7
021	TP16_0.0-0.2	-	-	26	-	7	10	11	7
022	TP17_0.0-0.2	-	-	26	-	7	10	11	7
023	TP18_0.0-0.2	-	-	26	-	7	10	11	7
024	TP19_0.0-0.2	-	-	26	-	7	10	11	7

CONTINUED OVERLEAF

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.

The numbers shown in the table indicate the number of results requested in each package.

Please indicate as soon as possible should your request differ from these details .

Testing as per this table shall commence immediately unless the client intervenes with a correction .

CLIENT DETAILS

Client SULLIVAN ENVIRONMENTAL SCIENCES PTY. LIMITED

Project SES_631 Cobbilty

SUMMARY OF ANALYSIS

No.	Sample ID	OC Pesticides in Soil	OP Pesticides in Soil	PAH (Polynuclear Aromatic Hydrocarbons) in Soil	PCBs in Soil	Total Recoverable Elements in Soil/Waste	TRH (Total Recoverable Hydrocarbons) in Soil	VOC's in Soil	Volatile Petroleum Hydrocarbons in Soil
025	TP20_0.0-0.2	-	-	26	-	7	10	11	7
026	TP21_0.0-0.2	-	-	26	-	7	10	11	7
027	TP22_0.0-0.2	-	-	26	-	7	10	11	7
028	TP23_0.1-0.3	-	-	-	-	7	-	-	-
029	TP24_0.1-0.3	-	-	-	-	7	-	-	-
030	TP25_0.0-0.1	-	-	-	-	7	-	-	-
031	TP26_0.1-0.3	-	-	-	-	7	-	-	-
032	TP27_0.2-0.4	-	-	-	-	7	-	-	-
033	TP28_0.1-0.3	-	-	-	-	7	-	-	-
034	TP29_0.0-0.1	-	-	-	-	7	-	-	-
035	TP30_0.0-0.1	-	-	-	-	7	-	-	-
036	TP31_0.0-0.2	-	-	-	-	7	-	-	-
037	TP32_0.1-0.2	-	-	-	-	7	-	-	-
038	TP33_0.1-0.2	-	-	-	-	7	-	-	-
039	QZ04	-	-	-	-	7	-	-	-
040	TP34_0.0-0.1	-	-	26	-	7	10	11	7
041	TP35_0.2-0.3	-	-	26	-	7	10	11	7
042	TP36_0.0-0.1	-	-	26	-	7	10	11	7
043	TP37_0.0-0.2	-	-	26	-	7	10	11	7
044	TP38_0.1-0.3	30	14	26	11	7	10	11	7
045	TP39_0.0-0.2	30	14	26	11	7	10	11	7
046	TP40_0.0-0.1	30	14	26	11	7	10	11	7
047	TP41_0.1-0.2	30	14	26	11	7	10	11	7
048	TP42_0.2-0.4	30	14	26	11	7	10	11	7

CONTINUED OVERLEAF

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.

The numbers shown in the table indicate the number of results requested in each package.

Please indicate as soon as possible should your request differ from these details .

Testing as per this table shall commence immediately unless the client intervenes with a correction .

CLIENT DETAILS

Client SULLIVAN ENVIRONMENTAL SCIENCES PTY. LIMITED

Project SES_631 Cobbilty

SUMMARY OF ANALYSIS

No.	Sample ID	OC Pesticides in Soil	OP Pesticides in Soil	PAH (Polynuclear Aromatic Hydrocarbons) in Soil	PCBs in Soil	Total Recoverable Elements in Soil/Waste	TRH (Total Recoverable Hydrocarbons) in Soil	VOC's in Soil	Volatile Petroleum Hydrocarbons in Soil
049	QZ05	-	-	26	-	7	10	11	7
050	TP43_0.1-0.2	30	14	26	11	7	10	11	7
051	TP44_0.0-0.2	30	14	26	11	7	10	11	7
052	TP45_0.0-0.2	30	14	26	11	7	10	11	7
053	TP46_0.1-0.3	30	14	26	11	7	10	11	7
054	TP47_0.0-0.1	30	14	26	11	7	10	11	7
055	TP48_0.0-0.1	30	14	26	11	7	10	11	7
056	TP49_0.0-0.2	30	14	26	11	7	10	11	7
057	TP49_0.4-0.5	30	14	26	11	7	10	11	7
058	QZ06	-	-	26	-	7	10	11	7
059	TP51_0.0-0.2	30	14	26	11	7	10	11	7
060	TP52_0.0-0.1	30	14	26	11	7	10	11	7
061	TP53_0.0-0.2	30	14	26	11	7	10	11	7
062	TP54_0.0-0.2	30	14	26	11	7	10	11	7
067	Trip Blank 1	-	-	-	-	-	-	11	-
068	Trip Spike A	-	-	-	-	-	-	11	-

CONTINUED OVERLEAF

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.
The numbers shown in the table indicate the number of results requested in each package.
Please indicate as soon as possible should your request differ from these details .
Testing as per this table shall commence immediately unless the client intervenes with a correction .

CLIENT DETAILS

Client SULLIVAN ENVIRONMENTAL SCIENCES PTY. LIMITED

Project SES_631 Cobbilty

SUMMARY OF ANALYSIS

No.	Sample ID	Fibre Identification in soil	Mercury in Soil	Moisture Content
001	TP01_0.0-0.2	2	1	1
002	QZ01	-	1	1
003	TP02_0.0-0.1	2	1	1
004	TP03_0.0-0.2	2	1	1
005	TP04_0.0-0.1	2	1	1
006	TP05_0.0-0.1	2	1	1
007	TP06_0.4-0.5	2	1	1
008	TP06_0.7-0.9	2	1	1
009	TP07_0.2-0.3	2	1	1
010	TP07_0.9-1.1	2	1	1
011	TP08_0.4-0.5	2	1	1
012	QZ02	-	1	1
013	TP08_0.8-0.9	2	1	1
014	TP10_0.1-0.2	2	1	1
015	TP11_0.1-0.2	2	1	1
016	TP12_0.0-0.2	2	1	1
017	TP13_0.0-0.1	2	1	1
018	TP14_0.0-0.1	2	1	1
019	TP15_0.0-0.2	2	1	1
020	QZ03	-	1	1
021	TP16_0.0-0.2	2	1	1
022	TP17_0.0-0.2	2	1	1
023	TP18_0.0-0.2	2	1	1
024	TP19_0.0-0.2	2	1	1

CONTINUED OVERLEAF

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.

The numbers shown in the table indicate the number of results requested in each package.

Please indicate as soon as possible should your request differ from these details .

Testing as per this table shall commence immediately unless the client intervenes with a correction .

CLIENT DETAILS

Client SULLIVAN ENVIRONMENTAL SCIENCES PTY. LIMITED

Project SES_631 Cobbilty

SUMMARY OF ANALYSIS

No.	Sample ID	Fibre Identification in soil	Mercury in Soil	Moisture Content
025	TP20_0.0-0.2	2	1	1
026	TP21_0.0-0.2	2	1	1
027	TP22_0.0-0.2	2	1	1
028	TP23_0.1-0.3	2	1	1
029	TP24_0.1-0.3	2	1	1
030	TP25_0.0-0.1	2	1	1
031	TP26_0.1-0.3	2	1	1
032	TP27_0.2-0.4	2	1	1
033	TP28_0.1-0.3	2	1	1
034	TP29_0.0-0.1	2	1	1
035	TP30_0.0-0.1	2	1	1
036	TP31_0.0-0.2	2	1	1
037	TP32_0.1-0.2	2	1	1
038	TP33_0.1-0.2	2	1	1
039	QZ04	-	1	1
040	TP34_0.0-0.1	2	1	1
041	TP35_0.2-0.3	2	1	1
042	TP36_0.0-0.1	-	1	1
043	TP37_0.0-0.2	-	1	1
044	TP38_0.1-0.3	2	1	1
045	TP39_0.0-0.2	2	1	1
046	TP40_0.0-0.1	2	1	1
047	TP41_0.1-0.2	2	1	1
048	TP42_0.2-0.4	2	1	1

CONTINUED OVERLEAF

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.

The numbers shown in the table indicate the number of results requested in each package.

Please indicate as soon as possible should your request differ from these details .

Testing as per this table shall commence immediately unless the client intervenes with a correction .

CLIENT DETAILS

Client SULLIVAN ENVIRONMENTAL SCIENCES PTY. LIMITED

Project SES_631 Cobbilty

SUMMARY OF ANALYSIS

No.	Sample ID	Fibre ID in bulk materials	Fibre Identification in soil	Mercury in Soil	Moisture Content
049	QZ05	-	-	1	1
050	TP43_0.1-0.2	-	2	1	1
051	TP44_0.0-0.2	-	2	1	1
052	TP45_0.0-0.2	-	2	1	1
053	TP46_0.1-0.3	-	2	1	1
054	TP47_0.0-0.1	-	2	1	1
055	TP48_0.0-0.1	-	2	1	1
056	TP49_0.0-0.2	-	2	1	1
057	TP49_0.4-0.5	-	-	1	1
058	QZ06	-	-	1	1
059	TP51_0.0-0.2	-	2	1	1
060	TP52_0.0-0.1	-	2	1	1
061	TP53_0.0-0.2	-	2	1	1
062	TP54_0.0-0.2	-	2	1	1
063	F01	1	-	-	-
064	F02	1	-	-	-
065	F03	1	-	-	-
066	F04	1	-	-	-
067	Trip Blank 1	-	-	-	1

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.

The numbers shown in the table indicate the number of results requested in each package.

Please indicate as soon as possible should your request differ from these details .

Testing as per this table shall commence immediately unless the client intervenes with a correction .

CLIENT DETAILS

Contact ADAM SULLIVAN
Client SULLIVAN ENVIRONMENTAL SCIENCES PTY. LIMITED
Address PO BOX 5248
TURRAMURRA NSW 2074

Telephone (Not specified)
Facsimile (Not specified)
Email ENQUIRIES@SULLIVAN-ES.COM.AU
Project **SES_631 Cobbitty**
Order Number **SES_631**
Samples 22

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 **SE227356 R0**
Date Received 20/12/2021
Date Reported 30/12/2021

COMMENTS

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

Asbestos analysed by Approved Identifier Yusuf Kuthpudin.

SIGNATORIES



Kamrul AHSAN
Senior Chemist



Ly Kim HA
Organic Section Head



Shane MCDERMOTT
Inorganic/Metals Chemist



Teresa NGUYEN
Organic Chemist



Yusuf KUTHPUDIN
Asbestos Analyst

VOC's in Soil [AN433] Tested: 21/12/2021

PARAMETER	UOM	LOR	PP1	PP2	PP4	QZ08	PP5
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/12/2021 SE227356.001	17/12/2021 SE227356.002	17/12/2021 SE227356.003	17/12/2021 SE227356.004	17/12/2021 SE227356.005
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	PP7	QZ07	PP8	PP9	PP10
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/12/2021 SE227356.006	17/12/2021 SE227356.007	17/12/2021 SE227356.008	17/12/2021 SE227356.009	17/12/2021 SE227356.010
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	PP11	PP12	PP13	PP14	PP15
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/12/2021 SE227356.011	17/12/2021 SE227356.012	17/12/2021 SE227356.013	17/12/2021 SE227356.014	17/12/2021 SE227356.015
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	PP16	PP17	PP18	QZ09	PP19
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/12/2021 SE227356.016	17/12/2021 SE227356.017	17/12/2021 SE227356.018	17/12/2021 SE227356.019	17/12/2021 SE227356.020
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

Volatile Petroleum Hydrocarbons in Soil [AN433] Tested: 21/12/2021

PARAMETER	UOM	LOR	PP1	PP2	PP4	QZ08	PP5
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/12/2021 SE227356.001	17/12/2021 SE227356.002	17/12/2021 SE227356.003	17/12/2021 SE227356.004	17/12/2021 SE227356.005
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	PP7	QZ07	PP8	PP9	PP10
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/12/2021 SE227356.006	17/12/2021 SE227356.007	17/12/2021 SE227356.008	17/12/2021 SE227356.009	17/12/2021 SE227356.010
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	PP11	PP12	PP13	PP14	PP15
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/12/2021 SE227356.011	17/12/2021 SE227356.012	17/12/2021 SE227356.013	17/12/2021 SE227356.014	17/12/2021 SE227356.015
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	PP16	PP17	PP18	QZ09	PP19
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/12/2021 SE227356.016	17/12/2021 SE227356.017	17/12/2021 SE227356.018	17/12/2021 SE227356.019	17/12/2021 SE227356.020
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

TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 21/12/2021

PARAMETER	UOM	LOR	PP1	PP2	PP4	QZ08	PP5
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/12/2021 SE227356.001	17/12/2021 SE227356.002	17/12/2021 SE227356.003	17/12/2021 SE227356.004	17/12/2021 SE227356.005
TRH C10-C14	mg/kg	20	52	<20	23	<20	<20
TRH C15-C28	mg/kg	45	1900	<45	560	<45	<45
TRH C29-C36	mg/kg	45	970	<45	240	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	81	<25	40	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	81	<25	40	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	2700	<90	740	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	190	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	2900	<110	820	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	3000	<210	780	<210	<210

PARAMETER	UOM	LOR	PP7	QZ07	PP8	PP9	PP10
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/12/2021 SE227356.006	17/12/2021 SE227356.007	17/12/2021 SE227356.008	17/12/2021 SE227356.009	17/12/2021 SE227356.010
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	PP11	PP12	PP13	PP14	PP15
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/12/2021 SE227356.011	17/12/2021 SE227356.012	17/12/2021 SE227356.013	17/12/2021 SE227356.014	17/12/2021 SE227356.015
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: 21/12/2021 (continued)

PARAMETER	UOM	LOR	PP16	PP17	PP18	QZ09	PP19
			SOIL - 17/12/2021 SE227356.016	SOIL - 17/12/2021 SE227356.017	SOIL - 17/12/2021 SE227356.018	SOIL - 17/12/2021 SE227356.019	SOIL - 17/12/2021 SE227356.020
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

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 21/12/2021

PARAMETER	UOM	LOR	PP1	PP2	PP4	QZ08	PP5
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/12/2021 SE227356.001	17/12/2021 SE227356.002	17/12/2021 SE227356.003	17/12/2021 SE227356.004	17/12/2021 SE227356.005
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	5.8	<0.1	2.3	<0.1	<0.1
Acenaphthene	mg/kg	0.1	0.6	<0.1	0.2	<0.1	<0.1
Fluorene	mg/kg	0.1	0.5	<0.1	0.3	<0.1	<0.1
Phenanthrene	mg/kg	0.1	0.7	<0.1	0.3	<0.1	<0.1
Anthracene	mg/kg	0.1	4.6	<0.1	1.4	<0.1	<0.1
Fluoranthene	mg/kg	0.1	41	<0.1	6.1	<0.1	<0.1
Pyrene	mg/kg	0.1	84	<0.1	10	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	91	<0.1	9.6	<0.1	<0.1
Chrysene	mg/kg	0.1	72	<0.1	8.9	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	150	<0.1	23	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	57	<0.1	6.4	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	69	<0.1	11	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	27	<0.1	6.1	<0.1	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	3.8	<0.1	1.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	19	<0.1	4.5	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ (mg/kg)	0.2	110	<0.2	16	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	0.3	110	<0.3	16	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	110	<0.2	16	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	630	<0.8	91	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	630	<0.8	91	<0.8	<0.8

PARAMETER	UOM	LOR	PP7	QZ07	PP8	PP9	PP10
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/12/2021 SE227356.006	17/12/2021 SE227356.007	17/12/2021 SE227356.008	17/12/2021 SE227356.009	17/12/2021 SE227356.010
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	0.3	0.2	<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: 21/12/2021 (continued)

PARAMETER	UOM	LOR	PP11	PP12	PP13	PP14	PP15
			SOIL - 17/12/2021 SE227356.011	SOIL - 17/12/2021 SE227356.012	SOIL - 17/12/2021 SE227356.013	SOIL - 17/12/2021 SE227356.014	SOIL - 17/12/2021 SE227356.015
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	PP16	PP17	PP18	QZ09	PP19
			SOIL - 17/12/2021 SE227356.016	SOIL - 17/12/2021 SE227356.017	SOIL - 17/12/2021 SE227356.018	SOIL - 17/12/2021 SE227356.019	SOIL - 17/12/2021 SE227356.020
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

Speciated Phenols in Soil [AN420] Tested: 21/12/2021

PARAMETER	UOM	LOR	PP1	PP2	PP4	QZ08	PP5
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/12/2021 SE227356.001	17/12/2021 SE227356.002	17/12/2021 SE227356.003	17/12/2021 SE227356.004	17/12/2021 SE227356.005
Phenol	mg/kg	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
3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	<1	-	<1
Total Cresol	mg/kg	1.5	<1.5	<1.5	<1.5	-	<1.5
2-chlorophenol	mg/kg	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
2,6-dichlorophenol	mg/kg	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
2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	-	<0.5
2-nitrophenol	mg/kg	0.5	<0.5	<0.5	<0.5	-	<0.5
4-nitrophenol	mg/kg	1	<1	<1	<1	-	<1
2,4,5-trichlorophenol	mg/kg	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
Pentachlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	-	<0.5
2,4-dinitrophenol	mg/kg	2	<2	<2	<2	-	<2
4-chloro-3-methylphenol	mg/kg	2	<2	<2	<2	-	<2

PARAMETER	UOM	LOR	PP7	QZ07	PP8	PP9	PP10
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/12/2021 SE227356.006	17/12/2021 SE227356.007	17/12/2021 SE227356.008	17/12/2021 SE227356.009	17/12/2021 SE227356.010
Phenol	mg/kg	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
3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	-	<1	<1	<1
Total Cresol	mg/kg	1.5	<1.5	-	<1.5	<1.5	<1.5
2-chlorophenol	mg/kg	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
2,6-dichlorophenol	mg/kg	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
2,4,6-trichlorophenol	mg/kg	0.5	<0.5	-	<0.5	<0.5	<0.5
2-nitrophenol	mg/kg	0.5	<0.5	-	<0.5	<0.5	<0.5
4-nitrophenol	mg/kg	1	<1	-	<1	<1	<1
2,4,5-trichlorophenol	mg/kg	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
Pentachlorophenol	mg/kg	0.5	<0.5	-	<0.5	<0.5	<0.5
2,4-dinitrophenol	mg/kg	2	<2	-	<2	<2	<2
4-chloro-3-methylphenol	mg/kg	2	<2	-	<2	<2	<2

Speciated Phenols in Soil [AN420] Tested: 21/12/2021 (continued)

PARAMETER	UOM	LOR	PP11	PP12	PP13	PP14	PP15
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/12/2021 SE227356.011	17/12/2021 SE227356.012	17/12/2021 SE227356.013	17/12/2021 SE227356.014	17/12/2021 SE227356.015
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	PP16	PP17	PP18	QZ09	PP19
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/12/2021 SE227356.016	17/12/2021 SE227356.017	17/12/2021 SE227356.018	17/12/2021 SE227356.019	17/12/2021 SE227356.020
Phenol	mg/kg	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
3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	<1	-	<1
Total Cresol	mg/kg	1.5	<1.5	<1.5	<1.5	-	<1.5
2-chlorophenol	mg/kg	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
2,6-dichlorophenol	mg/kg	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
2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	-	<0.5
2-nitrophenol	mg/kg	0.5	<0.5	<0.5	<0.5	-	<0.5
4-nitrophenol	mg/kg	1	<1	<1	<1	-	<1
2,4,5-trichlorophenol	mg/kg	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
Pentachlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	-	<0.5
2,4-dinitrophenol	mg/kg	2	<2	<2	<2	-	<2
4-chloro-3-methylphenol	mg/kg	2	<2	<2	<2	-	<2

OC Pesticides in Soil [AN420] Tested: 21/12/2021

PARAMETER	UOM	LOR	PP1	PP2	PP4	QZ08	PP5
			SOIL - 17/12/2021 SE227356.001	SOIL - 17/12/2021 SE227356.002	SOIL - 17/12/2021 SE227356.003	SOIL - 17/12/2021 SE227356.004	SOIL - 17/12/2021 SE227356.005
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
Heptachlor epoxide	mg/kg	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
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	-	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
trans-Nonachlor	mg/kg	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
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	-	<0.2
Endrin	mg/kg	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
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
Beta Endosulfan	mg/kg	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
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	<1	<1	-	<1
Total OC VIC EPA	mg/kg	1	<1	<1	<1	-	<1

OC Pesticides in Soil [AN420] Tested: 21/12/2021 (continued)

PARAMETER	UOM	LOR	PP7	QZ07	PP8	PP9	PP10
			SOIL - 17/12/2021 SE227356.006	SOIL - 17/12/2021 SE227356.007	SOIL - 17/12/2021 SE227356.008	SOIL - 17/12/2021 SE227356.009	SOIL - 17/12/2021 SE227356.010
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	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
Alpha Endosulfan	mg/kg	0.2	<0.2	-	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	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
Dieldrin	mg/kg	0.2	<0.2	-	<0.2	<0.2	<0.2
Endrin	mg/kg	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
o,p'-DDT	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	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
p,p'-DDT	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	-	<1	<1	<1
Total OC VIC EPA	mg/kg	1	<1	-	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 21/12/2021 (continued)

PARAMETER	UOM	LOR	PP11	PP12	PP13	PP14	PP15
			SOIL - 17/12/2021 SE227356.011	SOIL - 17/12/2021 SE227356.012	SOIL - 17/12/2021 SE227356.013	SOIL - 17/12/2021 SE227356.014	SOIL - 17/12/2021 SE227356.015
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: 21/12/2021 (continued)

PARAMETER	UOM	LOR	PP16	PP17	PP18	QZ09	PP19
			SOIL - 17/12/2021 SE227356.016	SOIL - 17/12/2021 SE227356.017	SOIL - 17/12/2021 SE227356.018	SOIL - 17/12/2021 SE227356.019	SOIL - 17/12/2021 SE227356.020
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
Heptachlor epoxide	mg/kg	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
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	-	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
trans-Nonachlor	mg/kg	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
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	-	<0.2
Endrin	mg/kg	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
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
Beta Endosulfan	mg/kg	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
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	<1	<1	-	<1
Total OC VIC EPA	mg/kg	1	<1	<1	<1	-	<1

OP Pesticides in Soil [AN420] Tested: 21/12/2021

PARAMETER	UOM	LOR	PP1	PP2	PP4	PP5	PP7
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/12/2021 SE227356.001	17/12/2021 SE227356.002	17/12/2021 SE227356.003	17/12/2021 SE227356.005	17/12/2021 SE227356.006
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	PP8	PP9	PP10	PP11	PP12
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/12/2021 SE227356.008	17/12/2021 SE227356.009	17/12/2021 SE227356.010	17/12/2021 SE227356.011	17/12/2021 SE227356.012
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	PP13	PP14	PP15	PP16	PP17
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/12/2021 SE227356.013	17/12/2021 SE227356.014	17/12/2021 SE227356.015	17/12/2021 SE227356.016	17/12/2021 SE227356.017
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: 21/12/2021 (continued)

PARAMETER	UOM	LOR	PP18	PP19
			SOIL - 17/12/2021 SE227356.018	SOIL - 17/12/2021 SE227356.020
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: 21/12/2021

PARAMETER	UOM	LOR	PP1	PP2	PP4	PP5	PP7
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/12/2021 SE227356.001	17/12/2021 SE227356.002	17/12/2021 SE227356.003	17/12/2021 SE227356.005	17/12/2021 SE227356.006
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	PP8	PP9	PP10	PP11	PP12
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/12/2021 SE227356.008	17/12/2021 SE227356.009	17/12/2021 SE227356.010	17/12/2021 SE227356.011	17/12/2021 SE227356.012
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	PP13	PP14	PP15	PP16	PP17
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/12/2021 SE227356.013	17/12/2021 SE227356.014	17/12/2021 SE227356.015	17/12/2021 SE227356.016	17/12/2021 SE227356.017
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: 21/12/2021 (continued)

PARAMETER	UOM	LOR	PP18	PP19
			SOIL - 17/12/2021 SE227356.018	SOIL - 17/12/2021 SE227356.020
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

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 23/12/2021

PARAMETER	UOM	LOR	PP1	PP2	PP4	QZ08	PP5
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/12/2021 SE227356.001	17/12/2021 SE227356.002	17/12/2021 SE227356.003	17/12/2021 SE227356.004	17/12/2021 SE227356.005
Arsenic, As	mg/kg	1	140	9	8	8	12
Cadmium, Cd	mg/kg	0.3	1.5	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	41	11	16	12	22
Copper, Cu	mg/kg	0.5	46	16	27	15	22
Lead, Pb	mg/kg	1	33	17	18	11	16
Nickel, Ni	mg/kg	0.5	5.5	9.4	14	13	19
Zinc, Zn	mg/kg	2	80	33	34	35	56

PARAMETER	UOM	LOR	PP7	QZ07	PP8	PP9	PP10
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/12/2021 SE227356.006	17/12/2021 SE227356.007	17/12/2021 SE227356.008	17/12/2021 SE227356.009	17/12/2021 SE227356.010
Arsenic, As	mg/kg	1	5	5	10	10	10
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	15	18	17	13	13
Copper, Cu	mg/kg	0.5	15	17	26	17	23
Lead, Pb	mg/kg	1	11	10	19	27	21
Nickel, Ni	mg/kg	0.5	4.1	5.0	13	15	19
Zinc, Zn	mg/kg	2	23	20	58	50	63

PARAMETER	UOM	LOR	PP11	PP12	PP13	PP14	PP15
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/12/2021 SE227356.011	17/12/2021 SE227356.012	17/12/2021 SE227356.013	17/12/2021 SE227356.014	17/12/2021 SE227356.015
Arsenic, As	mg/kg	1	17	9	19	10	7
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	18	13	17	21	13
Copper, Cu	mg/kg	0.5	14	16	14	18	14
Lead, Pb	mg/kg	1	22	13	11	17	11
Nickel, Ni	mg/kg	0.5	11	17	3.0	5.2	7.0
Zinc, Zn	mg/kg	2	32	45	15	23	21

PARAMETER	UOM	LOR	PP16	PP17	PP18	QZ09	PP19
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/12/2021 SE227356.016	17/12/2021 SE227356.017	17/12/2021 SE227356.018	17/12/2021 SE227356.019	17/12/2021 SE227356.020
Arsenic, As	mg/kg	1	7	10	10	11	8
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	12	22	24	23	13
Copper, Cu	mg/kg	0.5	22	11	13	20	18
Lead, Pb	mg/kg	1	14	15	24	13	15
Nickel, Ni	mg/kg	0.5	11	4.3	6.2	17	8.1
Zinc, Zn	mg/kg	2	39	15	22	53	30

Mercury in Soil [AN312] Tested: 23/12/2021

PARAMETER	UOM	LOR	PP1	PP2	PP4	QZ08	PP5
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			17/12/2021 SE227356.001	17/12/2021 SE227356.002	17/12/2021 SE227356.003	17/12/2021 SE227356.004	17/12/2021 SE227356.005
Mercury	mg/kg	0.05	0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	PP7	QZ07	PP8	PP9	PP10
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			17/12/2021 SE227356.006	17/12/2021 SE227356.007	17/12/2021 SE227356.008	17/12/2021 SE227356.009	17/12/2021 SE227356.010
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	PP11	PP12	PP13	PP14	PP15
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			17/12/2021 SE227356.011	17/12/2021 SE227356.012	17/12/2021 SE227356.013	17/12/2021 SE227356.014	17/12/2021 SE227356.015
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	PP16	PP17	PP18	QZ09	PP19
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			17/12/2021 SE227356.016	17/12/2021 SE227356.017	17/12/2021 SE227356.018	17/12/2021 SE227356.019	17/12/2021 SE227356.020
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Moisture Content [AN002] Tested: 21/12/2021

PARAMETER	UOM	LOR	PP1	PP2	PP4	QZ08	PP5
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			17/12/2021	17/12/2021	17/12/2021	17/12/2021	17/12/2021
			SE227356.001	SE227356.002	SE227356.003	SE227356.004	SE227356.005
% Moisture	%w/w	1	20.0	12.8	22.3	18.1	19.9

PARAMETER	UOM	LOR	PP7	QZ07	PP8	PP9	PP10
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			17/12/2021 SE227356.006	17/12/2021 SE227356.007	17/12/2021 SE227356.008	17/12/2021 SE227356.009	17/12/2021 SE227356.010
% Moisture	%w/w	1	19.8	19.9	22.9	15.8	15.7

PARAMETER	UOM	LOR	PP11	PP12	PP13	PP14	PP15
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			17/12/2021 SE227356.011	17/12/2021 SE227356.012	17/12/2021 SE227356.013	17/12/2021 SE227356.014	17/12/2021 SE227356.015
% Moisture	%w/w	1	17.8	17.0	20.1	23.1	17.5

PARAMETER	UOM	LOR	PP16	PP17	PP18	QZ09	PP19
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			17/12/2021 SE227356.016	17/12/2021 SE227356.017	17/12/2021 SE227356.018	17/12/2021 SE227356.019	17/12/2021 SE227356.020
% Moisture	%w/w	1	18.1	21.9	23.1	20.9	18.4



ANALYTICAL RESULTS

SE227356 R0

Fibre ID in bulk materials [AN602] Tested: 29/12/2021

			F05	Pipe01
			MATERIAL	MATERIAL
			-	-
			17/12/2021	17/12/2021
			SE227356.021	SE227356.022
PARAMETER	UOM	LOR		
Asbestos Detected	No unit	-	Yes	Yes

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.

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.

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

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.

AN602

Qualitative identification of chrysotile, amosite and crocidolite in bulk samples by polarised light microscopy (PLM) in conjunction with dispersion staining (DS). AS4964 provides the basis for this document. Unequivocal identification of the asbestos minerals present is made by obtaining sufficient diagnostic 'clues', which provide a reasonable degree of certainty, dispersion staining is a mandatory 'clue' for positive identification. If sufficient 'clues' are absent, then positive identification of asbestos is not possible. This procedure requires removal of suspect fibres/bundles from the sample which cannot be returned.

AN602

Fibres/material that cannot be unequivocally identified as one of the three asbestos forms, will be reported as unknown mineral fibres (umf). The fibres detected may or may not be asbestos fibres.

AN602

AS4964.2004 Method for the Qualitative Identification of Asbestos in Bulk Samples, Section 8.4, Trace Analysis Criteria, Note 4 states:"Depending upon sample condition and fibre type, the detection limit of this technique has been found to lie generally in the range of 1 in 1,000 to 1 in 10,000 parts by weight, equivalent to 1 to 0.1 g/kg."

FOOTNOTES

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

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:

- 1 Bq is equivalent to 27 pCi
- 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.

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.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client only. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

This report must not be reproduced, except in full.

CLIENT DETAILS

Contact ADAM SULLIVAN
Client SULLIVAN ENVIRONMENTAL SCIENCES PTY. LIMITED
Address PO BOX 5248
TURRAMURRA NSW 2074

Telephone (Not specified)
Facsimile (Not specified)
Email ENQUIRIES@SULLIVAN-ES.COM.AU

Project **SES_631 Cobbitty**
Order Number **SES_631**
Samples 2

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 **SE227356 R0**
Date Received 20 Dec 2021
Date Reported 30 Dec 2021

COMMENTS

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

Asbestos analysed by Approved Identifier Yusuf Kuthpudin.

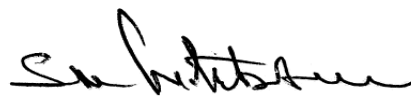
SIGNATORIES



Kamrul AHSAN
Senior Chemist



Ly Kim HA
Organic Section Head



Yusuf KUTHPUDIN
Asbestos Analyst

RESULTS

Fibre ID in bulk materials

Method AN602

Laboratory Reference	Client Reference	Matrix	Sample Description	Date Sampled	Fibre Identification	Est.%w/w*
SE227356.021	F05	Other	40x30x4mm Cement Sheet Fragments	17 Dec 2021	Amosite, Chrysotile & Crocidolite Asbestos Detected	
SE227356.022	Pipe01	Other	20x10x3mm Cement Sheet Fragments	17 Dec 2021	Amosite & Chrysotile Asbestos Detected	

METHOD

METHODOLOGY SUMMARY

AN602	Qualitative identification of chrysotile, amosite and crocidolite in bulk samples by polarised light microscopy (PLM) in conjunction with dispersion staining (DS). AS4964 provides the basis for this document. Unequivocal identification of the asbestos minerals present is made by obtaining sufficient diagnostic 'clues', which provide a reasonable degree of certainty, dispersion staining is a mandatory 'clue' for positive identification. If sufficient 'clues' are absent, then positive identification of asbestos is not possible. This procedure requires removal of suspect fibres/bundles from the sample which cannot be returned.
AN602	Fibres/material that cannot be unequivocally identified as one of the three asbestos forms, will be reported as unknown mineral fibres (umf). The fibres detected may or may not be asbestos fibres.
AN602	AS4964.2004 Method for the Qualitative Identification of Asbestos in Bulk Samples, Section 8.4, Trace Analysis Criteria, Note 4 states: "Depending upon sample condition and fibre type, the detection limit of this technique has been found to lie generally in the range of 1 in 1,000 to 1 in 10,000 parts by weight, equivalent to 1 to 0.1 g/kg."

FOOTNOTES

Amosite	-	Brown Asbestos	NA	-	Not Analysed
Chrysotile	-	White Asbestos	LNR	-	Listed, Not Required
Crocidolite	-	Blue Asbestos	*	-	NATA accreditation does not cover the performance of this service.
Amphiboles	-	Amosite and/or Crocidolite	**	-	Indicative data, theoretical holding time exceeded.
			***	-	Indicates that both * and ** apply.

(In reference to soil samples only) This report does not comply with the analytical reporting recommendations in the Western Australian Department of Health Guidelines for the Assessment and Remediation and Management of Asbestos Contaminated sites in Western Australia - May 2009.

Unless it is reported that sampling has been performed by SGS, the samples have been analysed as received.

Where reported: 'Asbestos Detected': Asbestos detected by polarised light microscopy, including dispersion staining.

Where reported: 'No Asbestos Found': No Asbestos Found by polarised light microscopy, including dispersion staining.

Where reported: 'UMF Detected': Mineral fibres of unknown type detected by polarised light microscopy, including dispersion staining. Confirmation by another independent analytical technique may be necessary.

Even after disintegration it can be very difficult, or impossible, to detect the presence of asbestos in some asbestos-containing bulk materials using polarised light microscopy. This is due to the low grade or small length or diameter of asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials.

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.

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.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client only. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

This test report shall not be reproduced, except in full.

Page 1 of 3

Email: au.samplerreceipt.sydney@sgs.com

Email Results: adam@sullivan-es.com.au and sean@sullivan-es.com.au

Ref: BLANK_COC/ver.2/16.08.2007/Page 1 of 1



CHAIN OF CUSTODY & ANALYSIS REQUEST

Page 2 of 3

SGS Environmental Services

Unit 16, 33 Maddox Street

Alexandria NSW 2015

Telephone No: (02) 85940400

Facsimile No: (02) 85940499

Email: au.samplerreceipt.sydney@sgs.com

Company Name: Sullivan Environmental Sciences Pty Ltd

Address: PO Box 5248, Turrumurra NSW 2074

Contact Name: Adam Sullivan

Project Name/No:

Purchase Order No:

Results Required By: Standard TAT

Telephone: 0400500264

Facsimile:

Email Results: adam@sullivan-es.com.au and sean@sullivan-es.com.au

Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	PRESERVATIVE	NO OF CONTAINERS														
PP10	17/12/21	10		X		1	X	CL15	Asbestos ID	CL10										
PP11		11					X													
PP12		12					X													
PP13		13					X													
PP14		14					X													
PP15		15					X													
PP16		16					X													
PP17		17					X													
PP18		18					X													

Relinquished By:

Date/Time:

Received By: George Zhi

Date/Time 20/12/21 @ 4:45pm

Relinquished By:

Date/Time:

Received By:

Date/Time

Samples Intact: Yes/No

Temperature: Ambient / Chilled

Sample Cooler Sealed: Yes/ No

Laboratory Quotation No:

Comments:

SGS Environmental Services

Unit 16, 33 Maddox Street

Alexandria NSW 2015

Telephone No: (02) 85940400

Facsimile No: (02) 85940499

Email: au.samplerreceipt.sydney@sgs.com

Company Name: Sullivan Environmental Sciences Pty Ltd

Address: PO Box 5248, Turrumurra NSW 2074

Project Name/No:

Purchase Order No:

Results Required By: Standard TAT

Telephone: 0400500264

Contact Name: Adam Sullivan

Facsimile:

Email Results: adam@sullivan-es.com.au and sean@sullivan-es.com.au

[illegible]

Relinquished By:

Date/Time:

Received By: George Zhi

Date/Time	20/12/21 @ 4:45 pm
Date/Time	

Relinquished By:

Date/Time:

Received By:

Date/Time

Samples Intact: Yes/ No

Temperature: Ambient / Chilled

Sample Cooler Sealed: Yes/ No

Laboratory Quotation No:

Comments:



SAMPLE RECEIPT ADVICE

SE227356

CLIENT DETAILS

Contact ADAM SULLIVAN
Client SULLIVAN ENVIRONMENTAL SCIENCES PTY. LIMITED
Address PO BOX 5248
TURRAMURRA NSW 2074

Telephone (Not specified)
Facsimile (Not specified)
Email ENQUIRIES@SULLIVAN-ES.COM.AU

Project **SES_631 Cobbitty**
Order Number **SES_631**
Samples 22

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 Mon 20/12/2021
Report Due Wed 29/12/2021
SGS Reference **SE227356**

SUBMISSION DETAILS

This is to confirm that 22 samples were received on Monday 20/12/2021. Results are expected to be ready by COB Wednesday 29/12/2021. Please quote SGS reference SE227356 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	20 Soil, 2 Material
Date documentation received	20/12/2021	Type of documentation received	COC
Samples received in good order	Yes	Samples received without headspace	Yes
Sample temperature upon receipt	16.4°C	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

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.

CLIENT DETAILS

Client SULLIVAN ENVIRONMENTAL SCIENCES PTY. LIMITED

Project SES_631 Cobbitty

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
001	PP1	30	14	26	11	18	10	11	7
002	PP2	30	14	26	11	18	10	11	7
003	PP4	30	14	26	11	18	10	11	7
004	QZ08	-	-	26	-	-	10	11	7
005	PP5	30	14	26	11	18	10	11	7
006	PP7	30	14	26	11	18	10	11	7
007	QZ07	-	-	26	-	-	10	11	7
008	PP8	30	14	26	11	18	10	11	7
009	PP9	30	14	26	11	18	10	11	7
010	PP10	30	14	26	11	18	10	11	7
011	PP11	30	14	26	11	18	10	11	7
012	PP12	30	14	26	11	18	10	11	7
013	PP13	30	14	26	11	18	10	11	7
014	PP14	30	14	26	11	18	10	11	7
015	PP15	30	14	26	11	18	10	11	7
016	PP16	30	14	26	11	18	10	11	7
017	PP17	30	14	26	11	18	10	11	7
018	PP18	30	14	26	11	18	10	11	7
019	QZ09	-	-	26	-	-	10	11	7
020	PP19	30	14	26	11	18	10	11	7

CONTINUED OVERLEAF

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.
The numbers shown in the table indicate the number of results requested in each package.
Please indicate as soon as possible should your request differ from these details .
Testing as per this table shall commence immediately unless the client intervenes with a correction .

CLIENT DETAILS

Client SULLIVAN ENVIRONMENTAL SCIENCES PTY. LIMITED

Project SES_631 Cobbitty

SUMMARY OF ANALYSIS

No.	Sample ID	Fibre ID in bulk materials	Mercury in Soil	Moisture Content	Total Recoverable Elements in Soil/Waste
001	PP1	-	1	1	7
002	PP2	-	1	1	7
003	PP4	-	1	1	7
004	QZ08	-	1	1	7
005	PP5	-	1	1	7
006	PP7	-	1	1	7
007	QZ07	-	1	1	7
008	PP8	-	1	1	7
009	PP9	-	1	1	7
010	PP10	-	1	1	7
011	PP11	-	1	1	7
012	PP12	-	1	1	7
013	PP13	-	1	1	7
014	PP14	-	1	1	7
015	PP15	-	1	1	7
016	PP16	-	1	1	7
017	PP17	-	1	1	7
018	PP18	-	1	1	7
019	QZ09	-	1	1	7
020	PP19	-	1	1	7
021	F05	1	-	-	-
022	Pipe01	1	-	-	-

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.

The numbers shown in the table indicate the number of results requested in each package.

Please indicate as soon as possible should your request differ from these details .

Testing as per this table shall commence immediately unless the client intervenes with a correction .

Appendix G Co-ordinates of Sampling Locations

Name on GPS	Latitude	Longitude
TP01	S34.00887	E150.70800
TP02	S34.00880	E150.70757
TP03	S34.00905	E150.70707
TP04	S34.00889	E150.70662
TP05	S34.00903	E150.70617
TP06	S34.00910	E150.70579
TP07	S34.00898	E150.70577
TP08	S34.00902	E150.70565
TP09	S34.00893	E150.70590
TP10	S34.00858	E150.70746
TP11	S34.00816	E150.70694
TP12	S34.00852	E150.70679
TP13	S34.00865	E150.70623
TP14	S34.00828	E150.70623
TP15	S34.01000	E150.70694
TP16	S34.01026	E150.70725
TP17	S34.01049	E150.70761
TP18	S34.01045	E150.70781
TP19	S34.01019	E150.70757
TP20	S34.00981	E150.70744
TP20A	S34.00990	E150.70738
TP21	S34.00984	E150.70766
TP22	S34.01000	E150.70796
TP23	S34.01053	E150.70815
TP24	S34.01102	E150.70874
TP25	S34.01145	E150.70924
TP26	S34.01158	E150.70939
TP27	S34.01196	E150.70993
TP28	S34.01229	E150.71035
TP29	S34.01237	E150.71050
TP30	S34.01282	E150.71129
TP31	S34.01345	E150.71228
TP32	S34.01364	E150.71255
TP33	S34.01389	E150.71280
TP34	S34.01349	E150.71278
TP35	S34.01344	E150.71266
TP36	S34.01331	E150.71278
TP37	S34.01325	E150.71264
TP38	S34.00992	E150.71480
TP39	S34.00995	E150.71485
TP40	S34.01000	E150.71473
TP41	S34.00994	E150.71468
TP42	S34.00971	E150.71467
TP43	S34.00966	E150.71455
TP44	S34.00970	E150.71447
TP45	S34.00973	E150.71455
TP46	S34.00939	E150.71481
TP47	S34.00930	E150.71480
TP48	S34.00936	E150.71470
TP49	S34.00422	E150.70535
TP50	S34.00417	E150.70527
TP51	S34.00412	E150.70517
TP52	S34.00420	E150.70510
TP53	S34.00425	E150.70521
TP54	S34.00428	E150.70530