K2 CONSULTING GROUP

# Detailed Site Investigation

## 515 Crookwell Road, Kingsdale NSW 2580

Prepared for:

Alimaco Pty Ltd

ST-01-1533 / DSI V3 Final

23rd June 2023


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# List of Abbreviations

| | |
|---|---|
| ACM | Asbestos Containing Material |
| ASC NEPM | Assessment of Site Contamination – National Environmental Protection Measure (1999 amended 2013) |
| ASET | Australian Safer Environment & Technology Pty Ltd |
| ASRIS | Australian Soil Resource Information System |
| ASLP | Australian Leaching Procedure |
| BH | Borehole |
| BGL | Below ground level |
| BR | Blind replicate |
| BTEXN | Benzene, Toluene, Ethylbenzene, Xylene and Naphthalene |
| CLR | Contaminated Land Register |
| COC | Chain of Custody |
| CoPC | Contaminants of Potential Concern |
| CSM | Conceptual Site Model |
| DBYD | Dial Before You Dig |
| DDD | Dichloro-Diphenyl Dichloroethane |
| DDE | Dichloro-Diphenyl Dichloroethylene |
| DDT | Dichloro-Diphenyl Trichloroethane |
| DP | Deposited Plan |
| EIL | Ecological Investigation Levels |
| ESL | Environmental Screening Levels |
| GPR | Ground Penetrating Radar |
| HIL | Health Investigation Levels |
| HSL | Health Screening Levels |
| LGA | Local Government Area |
| LOR | Limit of Reporting |
| m AHD | meters, Australian Height Datum |
| NATA | National Association of Testing Authorities |
| NSW EPA | New South Wales Environment Protection Authority |
| OCP | Organochloride Pesticides |
| OPP | Organophosphate Pesticides |
| PAH | Polycyclic Aromatic Hydrocarbons |
| PCB | Polychlorinated Biphenyl |
| PID | Photo-ionisation detector |
| PPM | Parts per million |
| QA | Quality Assurance |
| QC | Quality Control |
| RPD | Relative Percentage Difference |
| SAC | Site Acceptance Criteria |
| SPR | Source-Pathway-Receptor |
| SWMS | Safe Work Method Statement |
| TRH | Total Recoverable Hydrocarbons |
| UCL | Upper Confidence Level |

## 1 INTRODUCTION

This report, prepared by K2 Consulting Group (K2) presents the results of a Detailed Site Investigation (DSI) commissioned by Alimaco Pty Ltd and conducted for the property located at 515 Crookwell Road, Kingsdale (hereinafter referred to as 'the site'). The site is identified as Lot 3 of DP 107433 and Lot 104 of DP 1007433 located within the Goulburn-Mulwaree Council Local Government Area (LGA) – Local Government Area. The location and boundary of the site are presented in **Figure 3** in **Appendix I**.

The proposed development at the site includes twenty-three (23) low-density rural residential subdivisions/allotments including internal access roads as part of the proposed development use of the residential estate. At this stage details of the proposed development plan and associated with earthworks were not provided to K2 Consulting.

K2 Consulting Group was advised that the existing structures at the site such as the residential buildings, sheds, and other infrastructure will be demolished and disposed of off-site to assist in the proposed development.

CivPlan Consulting Pty Ltd (CivPlan) completed a Preliminary Site Investigation (PSI) on the site and identified Areas of Environmental Concern (AEC 1 to 4) targeting potential contamination sources indicated in **Appendix I**, **Figure 3** and a subsequent Stage 2 – Environmental Site Investigation (ESI) was undertaken by K2 Consulting Group. This report should be read in conjunction with these previous reports.

K2 Consulting reviewed the following reports as part of the project:

- CivPlan (2021), Preliminary Site Investigation (PSI), Report number 20027CC-001; and
- K2 Consulting Group (2022), Environmental Site Investigation (ESI), Report no ST-01-1492-ESI V1 final.

## 2 Objectives

The objectives of the DSI for contamination include the following:

- Assess the status and extent of contamination of soils, groundwater, and surface water that can pose a human health and environmental risk to the current and future occupiers of the land;
- Identify any potential contamination that may impact the proposed development of the site into a large rural subdivision; and
- Preparation of a DSI report providing the results of the site investigation and informing the client of any remediation or site management requirements in response to the findings of the site investigation.

## 3 Scope of Works

The scope of work conducted to prepare the (DSI) report included the following:

- Preparation of a Safe Work Method Statement (SWMS);
- Preparation of a refined conceptual site model (CSM);

### 3.1 Soil Investigation

- Undertake an intrusive soil investigation to establish ground conditions and facilitate the collection of representative soil samples within the AECs (AEC 1 to AEC 5) presented in **Appendix I** (**Figure 3**); and
- Laboratory analysis of selected soil samples for Contaminants of Potential Concerns (CoPC), Chromium VI speciation; and
- Analysis of selected soil samples for leaching potential using Australian Standard Leaching Potential (ASLP).

### 3.2 Groundwater and Surface Water Investigation

- Installation of two (2) groundwater monitoring wells within AEC5 (east of AEC2) and collection of representative groundwater samples;
- Collection of surface water samples from two (2) surface water dams; and
- Laboratory analysis of selected soil samples for Contaminants of Potential Concerns (CoPC), and Chromium VI speciation.

Preparation of this DSI report comprising, interpretation of results, conclusions, and recommendations.

The DSI was undertaken in general accordance with guidelines and acts referenced in Section 21 of this report.

## 4 SITE DESCRIPTION

The site is located at 515 Crookwell Road, Kingsdale NSW 2580 (Lot 103 on DP 1007433 and Lot 104 on DP 1007433) and is currently zoned RU6 C3-Environmental management under the Goulburn-Mulwaree Local Environmental Plan (LEP) 2009. Refer to **Table 1** below for the site summary. The site location and boundaries are presented in **Appendix I**. Copies of the Certificate of Titles are presented in **Appendix X** of this report.

The site is located within RU4 - Rural residential zoning and is proposed to be developed into a large rural residential site. The site is currently used for grazing and sheep-rearing activities with residential property and associated infrastructure including access roads and a workshop.

Table 1. Site Identification

| Item | Description |
|---|---|
| Client | Alimaco Pty Ltd |
| Site Address | 515 Crookwell Road, Kingsdale, NSW 2580 |
| Current Zoning | C3: Environmental Management (as per NSW spatial viewer) |
| Legal Description | Lot 103 and Lot 104 on DP 1007433 |
| Lot Area (ha) | 55 (Approx.) |
| Local Government Authority | Goulburn-Mulwaree Council |
| Elevation (m AHD) | Between 670 along the south to 682 along the north |
| Geographical Location | 34° 42’58” S 149° 42’13” E |

### 4.1 Surrounding Land Use

A summary of the surrounding land uses is provided in **Table 2** below.

Table 2. Summary of surrounding areas

| Surrounding areas | Description |
|---|---|
| Eastern section | Crookwell Road is the eastern boundary of the site beyond which are Sparse rural dwellings and paddock land. |
| Western section | The western boundary is defined by a cattle fence. Paddock land beyond the western boundary. Lake Sooley has located approximately 1 km to the west of the site. |
| Northern section | The northern boundary is defined by a cattle fence. Paddock land and sparse rural dwellings beyond. |
| Southern section | The southern boundary is defined by a cattle fence. Paddock land and sparse rural dwellings. The Wollondilly River is located approximately 1.8 km to the south of the site. |

## 5 Site Walkover Inspection

The following site features were observed during the site walkover inspections conducted by K2 Environmental Scientist on 7th November 2022. Site inspection observations are summarised below:

- An unpaved driveway was observed to traverse from Crookwell Road on the eastern boundary to the residential property;
- A residential house was located centrally along the eastern section of the site. The inside of the house was not inspected. The house is a stand-alone residential building and is not attached to any sheds;
- The site was predominantly used as a sheep farm;
- A workshop shed was located adjacent to the house. The workshop was primarily used for the maintenance of automobile and farm equipment and related storage of items including chemicals such as oils, and herbicides;
- A sheep mustering dock was located in the northern section of the site, which contains two (2) sheds;
- Hay storage shed, and a silo was observed to the west of the workshop shed;
- Another small shed was located along the western boundary of the site;
- Multiple fence lines and cattle grids were observed within the site;
- Extended driveways and tracks were observed leading to multiple storage sheds and silos located on the site. The remaining surfaces on site were grassed paddock land;
- Two (2) surface water dams constructed from soil embankments were observed on-site. The water in the dam located in the south-eastern section of the property appeared to contain a pinkish layer of film. No further investigation was undertaken during this assessment;
- Mature trees were noted across the property;
- The site is elevated along the northern section and generally slopes down towards the southern and western sections. Any surface water along the northern and eastern sections of the site will eventually drain into the Wollondilly River to the south of the site;
- Stockpiles of demolished construction material and timber were observed along the northwest corner of the site;
- Two (2) above-ground fuel storage tanks and agricultural machinery were observed to the north of the workshop shed. The volume of the fuel tanks was not determined during the inspection;
- IBC containers of unknown liquids were observed within AEC 2 and AEC 3. IBCs were partially filled with these unknown liquids and hence a volume could not be determined. Chemical containers were observed to be present at multiple locations on-site mainly along the driveway footprint in the eastern section of the site;
- An underground septic system and sub-surface irrigation area were noted to the east of the house at AEC 2; a GPR survey was undertaken to identify any underground utilities in the proposed borehole locations;
- Electric power lines were noted to traverse through the site in a north-south direction; and
- Groundwater extraction bore was noted along the eastern section of the site; however, the total number of bores on-site was not inspected or known to K2. Water storage tanks were observed at multiple locations on-site, it is assumed that the extracted groundwater is stored in these tanks for farming purposes. Sub-surface water lines were reported to be present on-site, however, no drawings indicating the lines were available at the time of inspection.

- Relevant site features are presented in **Appendix I - Figure 4** of this report.

## 6 PREVIOUS INVESTIGATIONS

**Preliminary Site Investigation, Report No: 20027CC-001, dated 28th October 2021 (Civplan PSI 2021):**

A summary of the report is presented below:

- "*Historical information for the property and onsite observations indicate that potentially contaminating activities may have occurred on site which may have impacted the site. The potential contaminants of concern associated with these activities, and the potential areas of environmental concern (AECs) are defined in the Conceptual Site Model (CSM);*
- *Potential for on-site use of pesticides, primary effluent disposal area, vehicle/equipment storage and maintenance activities, pre-1998 dwelling, shed and structure construction materials, and importation of fill materials for the driveway which may have contained contaminants entrapped at the source of the fill; and*
- *Four AECs have been identified and will require further investigation both pre-and post-demolition of the existing structures. The remainder of the site is of a MODERATE likelihood for any contamination due to agricultural land use activities and will also require additional investigation.*"

The recommendations in the report are summarised below:

- Due to the historical use of the site resulting in a moderate likelihood of any contamination, it is recommended that a Detailed Site Investigation (DSI) is undertaken to determine if the site is fit for its intended purpose.
- To address potential AEC and CoPC, an intrusive soil sampling regime is recommended to be conducted. The sampling regime must be in accordance with the following statutory guideline documents:
  - Consultants reporting on contaminated land, NSW EPA 2022
  - National Environmental Protection (Assessment of site contamination) Measure NEPM 2013."

**Environmental Site Investigation, Report No: ST-01-1492/ESI, dated 27th August 2022 (K2 ESI, August 2022)**

K2 was engaged to undertake a limited soil investigation in the AECs previously identified. 10 sampling points were advanced in various areas of the site within AECs 1 to 4 (refer to **Figure 6**). This is a preliminary soil investigation and was undertaken to assess the potential for contamination in AECs 1 to 4.

- "*Among the twenty (20) soil samples analysed for various contaminants of concern, twelve (12) soil samples exceeded the site assessment criteria (HIL-A) for total chromium. The ASLP leaching analysis undertaken in eight (8) representative samples indicated there is a potential for both trivalent and hexavalent chromium to leach from the soil matrix;*
- *Statical analysis UCL using ProUCL analysis for total chromium was undertaken on twenty (20) results and the 95 % UCL Student-t values were 139 mg/kg which exceeds the LOR;*

- *K2 recommended further sampling according to the recommended sampling density for site characterisation as per NSW EPA (2022) prior to moving soil on-site and/or transporting it off-site. Based on the site history review and site walkover, it was considered that there is a moderate to high potential for site contamination from one or more of the identified potential contamination sources and it is concluded that the environmental and human health risk is high. "*

Based on the above conclusions the following recommendations were proposed;

- Additional investigation of the remainder of the site was recommended for any contamination due to agricultural land use activities and the presence of fill materials.
- Both hexavalent and trivalent chromium has the potential to leach from the soil matrix as shown in elevated detections in the deeper soil samples (BH02/0.4 and BH4/0.4) as well as in the ASLP test results. Groundwater assessment is also recommended to ensure that the groundwater is safe for the present and future use of the site. The site inspection identified on-site existing groundwater extraction bores, the K2 recommended testing for the existing bores and further investigation of groundwater contamination using additional monitoring bores installed at strategic locations and monitoring for a period of time;
- A surface water dam dewatering and a decommissioning plan are recommended to be prepared and implemented before the commencement of earthworks;
- Investigate areas around the sewage effluent irrigation area for microbial and other potential contaminants; and
- Undertake a detailed desktop study including but not limited to the activities on-site and neighbouring sites, the search for chemical storage register, and groundwater extraction wells.

## 7 Area of Environmental Investigation

Civplan (2021) identified four (4) AECs and further investigations were conducted by K2 during stage 2 - Environmental Site Investigation (K2 ESI, August 2022). K2 (2022) identified elevated levels of total chromium concentrations in soils collected from AEC 1, AEC 2, and AEC3. The remaining areas outside these AECs were not investigated during this limited investigation. Hence a DSI was recommended to investigate chromium across the site i.e., AECs 1 to AEC 5. Refer to **Table 3** below and **Appendix I** for details on the boundaries of AECs.

Table 3. Areas of Environmental Concern

| AEC | Areas | Source | Contaminants |
|---|---|---|---|
| AEC 1 | North-eastern section of the site near the shed and silo | Storage of chemical containers and IBCs of unidentified liquids on site | TRH, BTEXN, PAH, Heavy Metals, OCP/OPP, PCB, and Asbestos |
| AEC 2 | North-eastern section of the site, south of AEC1 near the residential dwelling and shed | Imported fill material underneath concrete hardstand areas under the sheds and from compacted driveways within the site | TRH, BTEXN, PAH, Heavy Metals, OCP/OPP, PCB, and Asbestos |
| AEC 3 | North-eastern section of the site, west of AEC 2, near the shed, silo | Fuel and oil spillage from maintenance, parking, and refuelling of motor vehicles on site | TRH, BTEXN, PAH, Heavy Metals, OCP/OPP, PCB, and Asbestos |

| AEC | Areas | Source | Contaminants |
|---|---|---|---|
| AEC 4 | North-western section of the site | Corrugated tin shed | TRH, BTEXN, PAH, Heavy Metals, OCP/OPP, PCB, and Asbestos |
| AEC 5 (Areas not included in AEC1, AEC2, AEC3 and AEC 4) | North-western, Southwestern, and south-eastern sections of the site | No known contamination sources at this stage of the investigation | TRH, BTEXN, PAH, Heavy Metals, OCP/OPP, PCB, and Asbestos |

## 8 SITE SETTINGS

### 8.1 Hydrology and Site Topography

The site is elevated along the north-western section and slopes towards the southwest. The residential dwelling and silo are located on the upstream side and any surface water runoff from the site is expected to flow from the residential dwelling to the paddock in a south-westerly direction.

### 8.2 Geology and Hydrogeology

The site area is underlain by hard compacted layers of mudstone and siltstone. The general soil type of the investigated area is dominantly clay. From the overall soil sampling program carried out across the area, and from the samples that were collected between a depth of 0.0-1.5m BGL, it is inferred that the general soil lithology presents a natural profile that varies from Silty clay to clayey silt with occurrences of fill material below the topsoil in certain sections of the site.

A search for the registered groundwater bore was undertaken at the online database of the WaterNSW Real-time (https://realtimedata.waternsw.com.au) as part of Stage 2 – Environmental Site Investigation. One (1) registered groundwater bore was identified within the site and two (2) registered groundwater bores were identified within 500 m radius of the site boundary. Refer to **Figure 1** for the groundwater bore locations and **Table 4** below summarised detail information regarding the registered groundwater bores identified (Database accessed 21.04.2023). The construction details of the bore identified onsite (GW050231) is provided in **Appendix XI**, however, K2 was not able to locate the GW050231 during the site investigation.

Table 4. Groundwater bores within 500m radius of the site

| Groundwater Bore ID | Date Commissioned | SWL (m) | Depth of the bore (m BGL) | Authorised purpose | Intended purpose | Direction | Approx. distance from the site (m) |
|---|---|---|---|---|---|---|---|
| GW050231 | 01/02/16980 | 9.10 | 38.10 | NA | Stock | Onsite | On-site |
| GW043667 | 01/08/1972 | 26.20 | 42.3 | Stock, Domestic | Stock, Domestic | East of the site | 260 |
| GW049127 | 01/09/1978 | 8.20 | 45.70 | Stock | Stock | Northeast of the site | 420 |

NA – Not Available

There is no sufficient information to conclude the localised groundwater flow direction, however, the groundwater flow is assumed to take the general topography at the site.

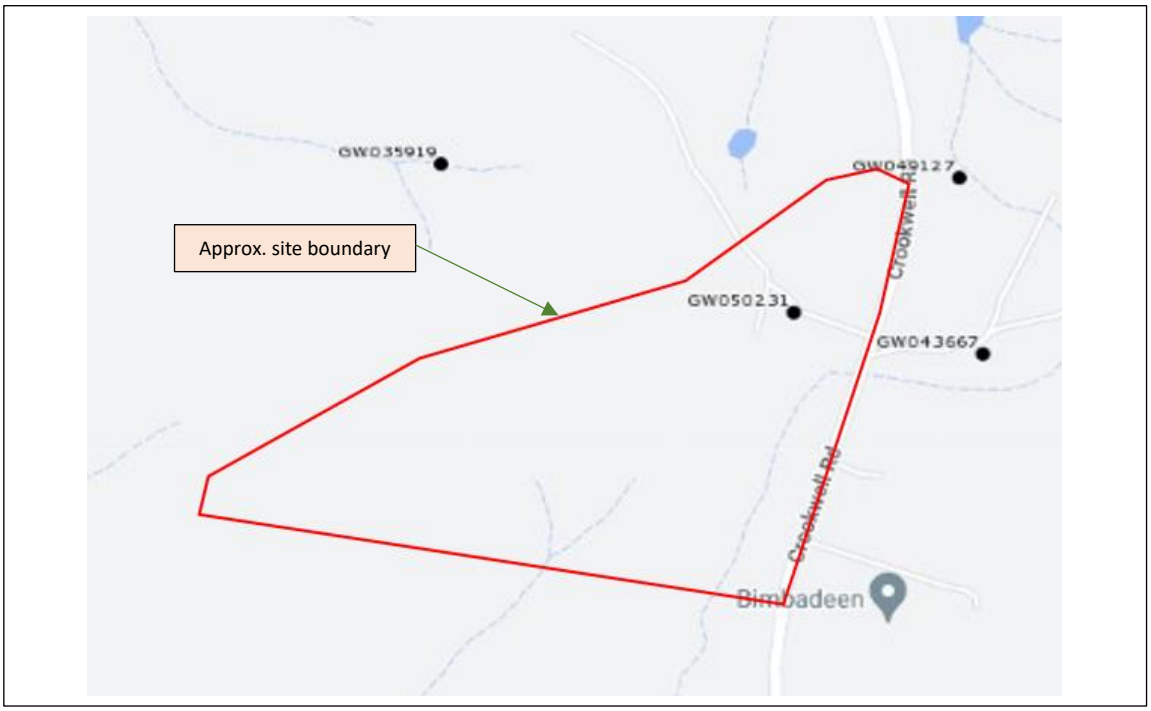


Figure 1. A search for registered groundwater monitoring wells.

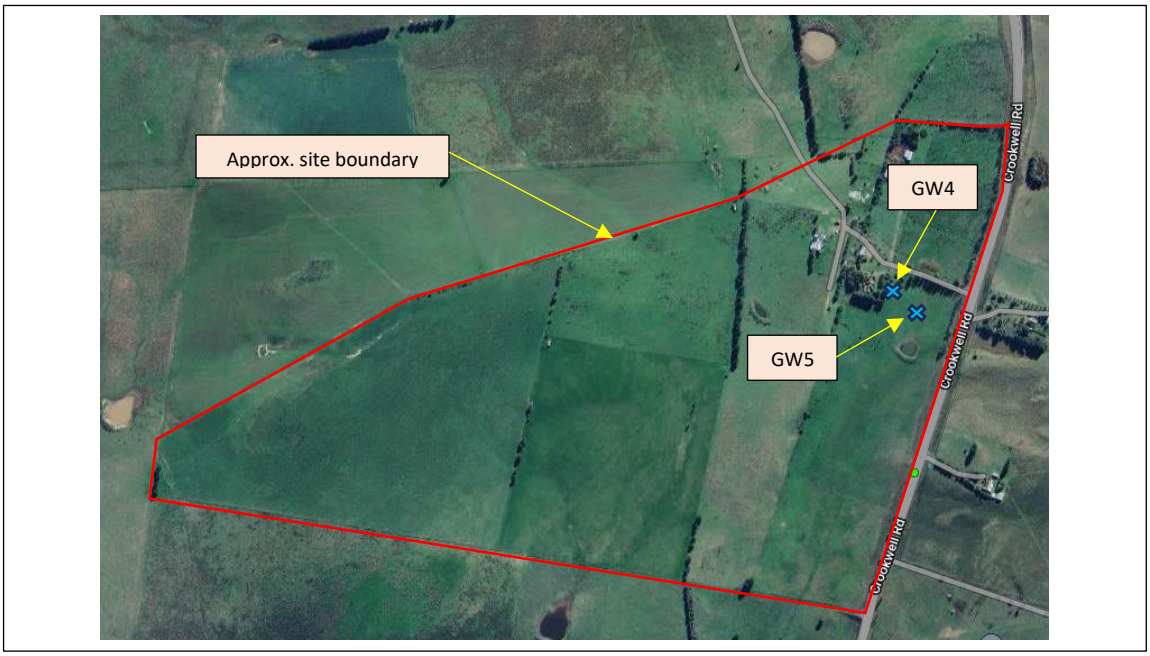


Figure 2. Approximate locations of the monitoring wells installed by K2 on site.

# 9 SITE HISTORY REVIEW

## 9.1 Council Record Search

A council record search was undertaken by K2 for any relevant information pertaining to the site. The Goulburn-Mulwaree council website was accessed on 6th December 2022 and no information was obtained during the search.

## 9.2 Aerial images

A review of the historical photographs of the site was undertaken by CivPlan (2021) and a selection of the most pertinent historical aerial photographs of the site and surrounding area are presented. The site has remained fairly unchanged since 1975 till date except for the addition of two sheds to the north and west of the residential dwelling in 1987, and a small shed to the southwest of the residential dwelling in 1991. Refer to section 2.9 of the CivPlan (2021) report for the historical information pertaining to the site.

## 9.3 Title Search

A historical title search of the site was undertaken by K2. A summary of the historical land titles provided by Land Insight is presented in **Table 5** below. The activities undertaken during the lease were not identified. Refer to **Appendix X** – Historical Title search.

Table 5. Historical title summary

| Date of Acquisition | Type | Registered Proprietor(s) & occupations where available | Deal No. | Folio reference |
|---|---|---|---|---|
| 2002 | Transfer | Alimaco Pty Ltd | 9096411 | 103/1007433 |
| 1978 | Transfer | Onslow Pastoral Pty Ltd | NA | NA |
| 1959 | Transfer | William Thomas Phillips, Grazier<br>Gladys Phillips, Grazier | NA | NA |
| 1931 | Transfer | James Carr, Grazier | NA | NA |
| 1912 | Transfer | James Carr, Grazier | NA | NA |

From the information provided by Land Insight, it is inferred that the subject area had been a portion of a larger property (4149 acres) and historically it had been subdivided into smaller lots. Additionally, the site was subjected to lease to multiple occupants by the title holders.

Based on the title records review, it is inferred that, historically, the larger land (including the site) was predominantly used for grazing purposes except for the period between 1914 to 1957 when the larger land was leased to Kingsdale Lime Kilns Ltd.

## 10 CONCEPTUAL SITE MODEL

A CSM is a tool that relates identified impacts to potential source areas based on the interpretation of the geology/hydrogeology and contaminant migration pathways. A CSM provides a discussion of the nature and extent of impacts, and relevant source-pathway-receptor (SPR) linkages.

The linkage between SPR in the CSM examines whether a complete, potential, or incomplete exposure pathway exists. The status of the exposure pathway determines the presence of risk to the environment and/or human health. SPR linkage categories are summarised as follows:

- Complete: All elements are present. Potential risk exists;
- Potentially complete: one or more of the elements may not be present, and /or information is insufficient to eliminate or exclude the element. The potential for risk exists; and
- Incomplete: one or more of the elements are absent. The risk to the receptor does not exist.

In accordance with ASC NEPM (2013) Schedule B2 – Guideline on Site Characterisation and to aid in the assessment of data collection for the site, K2 developed a conceptual site model (CSM), to evaluate potential risk from SPR. The CSM provides a framework for the review of the reliability and useability of the data collected and to identify data gaps in the existing site characterisation.

A CSM has been completed using desktop-based information and the previous investigations and summarised in **Table 6.**

### 10.1 Potential Sources and Associated Contaminants of Concern

The following contamination sources are likely to be present, primarily within the area defined as AECs in **Appendix I-Figure 3**.

**On-site Sources identified**

- AEC 1: Storage of chemical containers and IBCs of unidentified liquids on-site;
- AEC: 3- fuel and oil spillage from maintenance, parking, and refuelling of motor vehicles on site in AEC3;
- Imported fill material in AEC 2;
- Historical usage of pesticides onsite and adjacent properties and runoff from the septic effluent irrigation system in AEC4.

**Offsite Sources identified**

- No known contaminating activities are observed on adjacent sites and no known offsite sources were identified at this stage.

### 10.2 Pathways

The potential contamination pathways are considered to be as follows:

- Direct contact of the soil by current users, construction workers and future site users;
- Inhalation of asbestos or volatiles by current users, construction workers and future site users;
- Stormwater runoff;

- Infiltration of Volatile Organic Compounds (VOCs) through the building foundation;
- Infiltration through water pipes located on-site; and
- Leaching of contaminants through the soil profile;

Further leaching of contaminants to groundwater;

- Formation of contaminant plume in aquifer/s;
- Contaminants travelling off-site via groundwater plume;
- Residents (both on-site and neighbouring) accessing groundwater and suffering negative health impacts;
- Plumes impacting down-gradient flora and fauna, and
- Plumes impact down-gradient surface water bodies and cause negative environmental health impacts.

### 10.3 Receptors

Relevant potential receptors are considered to include:

- Onsite construction and maintenance workers
- Future site users
- Neighbouring residents - Aquifer
- Local wetlands
- Flora and Fauna.

The potential contamination sources, exposure pathways, and human and environmental receptors that were considered relevant for this assessment are summarized along with a qualitative assessment of the potential risks posed when the exposure pathways are complete as presented in **Table 6**.

### 10.4 Limitations

The investigation did not include any emerging contaminants of concern including Per and poly-fluoroalkyl substances (PFAS) which are known to be persistent and widely prevalent in Australian environmental media such as soils and water. No activities relevant to the storage of firefighting foams and /or firefighting activities were noted onsite and hence it was considered suitable to exclude PFAS from the investigations. In NSW, biosolids were historically applied on land for agricultural purposes as a nutrient-rich alternative for grazing land. Due to the widespread application of biosolids in NSW, there is a potential for contamination, however, it is not included as a source of contamination in this investigation due to lack of evidence and is considered as a limitation to the report.

Table 6. Revised Conceptual Site Model

| Areas of concern | Key Affected Areas | Source | Contaminants of Potential Concern (COPC) | Primary Release Mechanism | Secondary Release Mechanism | Potential Impacted Media | Exposure Pathways | Key Potential Receptors | The Potential Risk of Complete Exposure Pathway |
|---|---|---|---|---|---|---|---|---|---|
| AEC 1 | North-eastern section of the site near the shed and silo | Storage of chemical containers and IBCs of unidentified liquids on site | TRH, BTEX, PAH, Heavy metals, OCP, OPP, Asbestos | Release of any hydrocarbon-based oils and fluids | Leaching and migration of contaminants via surface runoff, rainwater infiltration during historical land use, or disturbance during future development | Soil, groundwater, and surface water run-off | Dermal contact, inhalation of dust/vapour, ingestion, surface water, and groundwater migration. | Current residents, future residents, and construction personnel involved in the development of the site | Yes |
| | | | | | | | | Users of groundwater | Yes |
| AEC 2 | North-eastern section of the site, south of AEC1 near the residential dwelling and shed | Imported fill material underneath concrete hardstand areas under the sheds and from compacted driveways within the site | TRH, BTEX, PAH, Heavy metals, OCP, OPP, Asbestos | Placement of fills material onsite | Leaching and migration of contaminants via surface runoff, rainwater infiltration during historical land use, or disturbance during future development | Soil, groundwater, and surface water run-off | Dermal contact, inhalation of dust/vapour, ingestion, surface water, and groundwater migration. | Current residents, future residents, and construction personnel involved in the development of the site | No |
| | | | | | | | | Users of groundwater | Yes |
| AEC 3 | North-eastern section of the site, west of AEC2, near the shed, silo | Fuel and oil spillage from maintenance, parking and refuelling of motor vehicles on site | TRH, BTEXN, PAH, Heavy metals | Release of any hydrocarbon-based oils and fluids, metals from the vehicles | Leaching and migration of contaminants via surface runoff, rainwater infiltration during historical land use, or disturbance during future development | Soil, groundwater, and surface water run-off | Dermal contact, inhalation of dust/vapour, ingestion, surface water, and groundwater migration. | Current residents, future residents, and construction personnel involved in the development of the site | Yes |
| | | | | | | | | Users of groundwater | Yes |
| AEC 4 | South-western section of the site | Historical usage of pesticides onsite and | OCP, OPP and Heavy metals | Use of pesticides for any land management activities | Leaching and migration of contaminants via surface runoff, rainwater infiltration during historical land use, or disturbance during future development | Soil, groundwater, and surface water run-off | Dermal contact, inhalation of dust/vapour, ingestion, surface water, and groundwater migration. | Current residents, future residents, and construction personnel involved in the development of the site | Yes |
| | | | | | | | | Users of groundwater | Yes |
| AEC5 (All other areas not included in AEC1, AEC2, AEC3, AEC4) | North-western, Southwestern, and south-eastern sections of the site | Historical usage of pesticides onsite and adjacent properties, Runoff from the septic effluent irrigation system | TRH, BTEXN, PAH, Heavy metals, Microbial contamination | No known sources of contamination at this stage of investigation. | Leaching and migration of contaminants via surface runoff, rainwater infiltration during historical land use, or disturbance during future development | Soil, groundwater, and surface water run-off | Dermal contact, inhalation of dust/vapour, ingestion, surface water, and groundwater migration | Current residents, future residents, and construction personnel involved in the development of the site | Yes |
| | | | | | | | | Users of groundwater | |

# 11 Field Investigation Methodology

## 11.1 Soil Investigation methodology

Drilling was undertaken at eighty-three (83) boreholes using a direct push tube (DPT) drill rig while five (5) boreholes were drilled using a hand auger. The boreholes were generally drilled to the depth of 1.5 m BGL which is the length of each push tube. However, in some instances, the bore holes were terminated at shallower depths due to rock refusal. Three (3) soil samples were collected at various depths in each borehole, generally from the topsoil layer (0.0-0.2 m BGL), topsoil/natural transition layer (around 0.5m BGL), and natural residual clay approximately around 0.8 m to 1.0 m BGL.

Two hundred and twelve (212) primary samples were collected from the soil sampling program. Of these a selected eighty-eight (88) primary soils samples at various depths were selected for laboratory analysis. As part of the data quality additional four (4) intra lab, and four (4) inter-laboratory samples were analysed for CoPCs identified in **Section 10.1**.

The borehole logs were prepared in accordance with the Unified Soil Classification System. The logs were prepared for environmental purposes and not geotechnical purposes. Field observations including soil indicators of contamination such as staining, odour, and discolouration, were considered during the collection of samples. Please refer to **Appendix III – Bore logs** for details of soil lithology and depth of samples.

## 11.2 Sampling locations and sampling density

A stratified sampling pattern was followed based on-site geometry, size and review of previous site investigations. The sampling locations within AECs 1, 2, 3 and 4 were undertaken in a stratified pattern (combination of both judgemental and systematic patterns), while sampling in other areas (AEC 5) was undertaken on a judgemental sampling pattern. Please refer to **Appendix I** for the sampling locations.

Due to the larger area of the subject site, an incremental sampling approach was considered appropriate for this site. The approach involved the investigation of the site in stages and if any contamination in soils or contamination sources is identified during the investigation by K2, further testing would be required.

Due to the stratified sampling pattern, the sampling density in the AECs did not meet the minimum sampling density requirements as mentioned in Sample Design Guidelines (Part 1) NSW EPA 2022. However, based on the adopted investigation approach (stratified), field observations during site works, laboratory reports from soil samples and other desktop-based information, the sampling density is considered suitable to meet the objectives of this investigation.

<u>AEC 1, 2 and 3</u>

AEC1, 2, and 3 are located in the immediate vicinity of the constructed areas onsite including residential buildings, silos, and a mustering station. A higher sampling density was undertaken as part of the current site investigation to delineate the boundary of elevated total chromium soil concentrations reported in K2 (2022). Sampling locations were selected using a systematic sampling pattern with an offset form previously identified exceedances of total chromium concentrations. The total area of each AECs and sampling density is provided in **Table 7**.

AEC 4 and 5

AEC 4 is located to the west of the site and includes a small shed made of fibrous cement sheets. The shed was not used for any storage purposes.

AEC 5 involved areas outside the AEC 1,2 and 3 and included undeveloped pastoral land with undulating ground features and two (2) agricultural surface water dams. Due to the larger area of AEC 5 and based on the site features, a judgemental sampling pattern was adopted. A minimum of three (3) sampling locations were placed on each of the proposed subdivision lots (1.5 Ha each lot) in a targeted pattern.

Table 7. Summary of sampling density in the AEC

| AEC | Sampling pattern | Area (ha) | Number of sampling locations undertaken previously (K2 ESI 2022) | Number of sampling locations undertaken during the current investigation (K2 DSI 2023) |
|---|---|---|---|---|
| AEC 1 | Stratified | 1.5 | 3 | 10 |
| AEC 2 | Stratified | 1.65 | 5 | 12 |
| AEC 3 | Stratified | 0.9 | 2 | 8 |
| AEC 4 | Judgemental | -0.5 | Nil | 3 |
| AEC 5 | Judgemental | 50 | Nil | 55 |

### 11.3 Soil Sampling Procedures

Soil samples were collected by split-core sampler Direct Push Tube (DPT) drilling and the soils were brought to the surface in plastic sleeves. The sleeves were then slit open to enable soil logging and collection of soil samples. The soil samples were collected by wearing disposable nitrile gloves, which were changed between each sample. Soil samples marked for chemical analysis were carefully placed in glass jars supplied by the laboratory which were filled to the top to minimise any headspace.

New plastic push tubes were used for each sample location thus negating the need for decontamination.

All field observations were noted in the field sheet including, unique sample identification, sample description, sampling coordinates, soil profiles, and borehole numbers. Excess soils collected during the investigation were placed within the borehole and reinstated. No soils from the drilling program were taken offsite for disposal.

### 11.4 Sample Transportation

Sampling jars were placed in a precooled esky with ice for sample preservation and transportation. The field chain of custody (COC) forms was completed, and the samples were then transferred to the primary laboratory SGS (SGS Australia Pty Ltd at U16, 33 Maddox St, Alexandria, NSW) and the secondary laboratory (Eurofins/MGT). Both the laboratories were NATA accredited.

Selected samples were submitted for laboratory analysis while the remaining samples were placed on hold for future assessment. All samples will be stored in the laboratory for a specified period following the receipt of samples.

### 11.5 Laboratory analysis of soils

Soils were also analysed for general contaminants including Heavy metals/metalloids, TRH, BTEX, PAH, OC/OP, PCBs and asbestos in soils (selected samples)

Elevated total chromium was observed in some of the soil samples. In order to assess the leaching potential of the soils for chromium, ten (10) soils were analysed using the Australian Standard Leaching Procedure (ASLP) for speciation of Chromium III (Cr III) and Chromium VI (Cr VI). Selected soil samples (49 soil samples) were analysed for speciation of Chromium to further analyse the presence of Cr VI in soils.

A selected forty-four (44) soil samples were analysed for asbestos in soils (presence or absence) to assess the presence of asbestos contamination on the property.

### 11.6 Collection of quality control samples

A representative soil media was collected and well mixed and split into three portions and placed in three (3) jars prepared by the laboratory. One jar was labelled with the primary sample ID and the other jars were labelled with the intra and inter-lab duplicate sample IDs respectively. The primary and intra-lab duplicate samples were sent to the primary laboratory (SGS Australia Pty Ltd) and the inter-lab duplicate sample was sent to the secondary laboratory (Eurofins|MGT).

### 11.7 Decontamination Procedures

Sampling was undertaken using Direct Push Tubes using disposable plastic sleeves, which were changed between each borehole. Samples were collected directly from the sleeves using disposable nitrile gloves once they were cut open. The gloves were changed between each sample hence the need to decontaminate the tools was eliminated. Hence no decontamination was undertaken during this sampling regimen.

### 11.8 Groundwater Investigation

The objectives of the groundwater sampling program were to assess the prevalence and composition of any potential groundwater contamination and to determine both groundwater levels and baseline water quality onsite.

#### 11.8.1 Groundwater monitoring wells Construction

Groundwater bores were installed in accordance with National Uniform Drillers Licensing Committee 2020, guidance on 'Minimum Construction Requirements for Water Bores in Australia'.

Two (2) groundwater monitoring wells GW4 and GW5 were installed on the eastern section of the site on 10$^{th}$ Nov 2022 refer to **Figure 7** in **Appendix I** for the location of groundwater monitoring wells. Two (2) soil bores were drilled using a solid flight auger and the groundwater table was encountered at 4.0 m BGL and 6.0 m BGL for GW4 and GW5, respectively. The monitoring wells were constructed using a 50 mm diameter uPVC casing (both solid and slotted screen), a 0.5 m thick gravel pack surrounding the screen, and a bentonite seal placed to the ground level.

The installation of groundwater monitoring wells on the north-western section of the property (AEC3) was abandoned due to rock refusal encountered at approximately 1.5 – 2.0 m BGL.

Please refer to the groundwater well bore log details and construction detail from **Appendix III - Bore logs.**

A borehole was drilled for installing GW4 and the groundwater table was encountered at 4 m BGL and drilling was terminated at 6 m BGL. A 50 mm diameter class -10 uPVC was used with a length of 1.5 m solid casing - and a length of screen of 4.5 m. The well was developed until dry using a bailer with a total volume of 24 litres was purged and left to recharge for future sampling events.

A second borehole was drilled for installing GW5 and the groundwater table was encountered at 4 m BGL, and the borehole was terminated at 6.7 m BGL. The groundwater well was installed using a 50 mm diameter class -10 uPVC (with the length of solid casing -1.2 m BGL and length of the screen - 5.5 m BGL). The well was developed until dry using a low-flow peristaltic pump with a total volume of 6.8 litres and was purged and left to recharge for future sampling events.

For both wells, areas surrounding the bores were flushed with ground level and solid casings for both groundwater wells extended 0.5 m above the ground. The groundwater well pipes were sealed using a screw-on plug. The groundwater boreholes were not surveyed for elevation by a licensed surveyor.

### 11.8.2 Groundwater Sampling

After the installation of the monitoring wells on 10th Nov 2022, three (3) monitoring events were undertaken on 18th Nov 2022, 25th Nov 2022, and 10th January 2023. During these monitoring events, the wells were purged and sampled.:

The groundwater wells were sampled using the following method:

- Prior to purging, the standing water level (SWL) in each monitoring well was measured using a water dip meter (Solinst meter). All measurements were undertaken from the top of the casing (TOC);
- Groundwater was purged and sampled at less than 1 litre per minute using a low-flow pump. Groundwater was sampled using a low-flow peristaltic sampling pump (Geotech Geopump) with a new section of dedicated silicon tubing which was connected to a flow cell and a water quality meter (YSI Pro Plus) attached to the flow cell;
- YSI multiparameter meter was used to measure field parameters (pH, Electrical Conductivity (EC), Dissolved Oxygen (DO), and temperature) and recorded during purging to ensure that extracted groundwater was representative of the surrounding groundwater conditions. When field parameters reached equilibrium, i.e., consecutive measurements are within 10% of each other for EC and pH, groundwater was deemed to be representative and groundwater samples were collected;
- The total volume of extracted water was recorded in field sheets and the data has been presented in **Appendix IX** – Groundwater field parameters.

Sample containers were filled directly from the pump tubing with a minimal amount of air contact and vials for volatile organic analysis were filled to minimise headspace. The sample containers were placed in a precooled esky with ice for sample preservation and transportation. The field forms were completed, and the samples were submitted to SGS Australia Pty Ltd under the Chain of Custody (COC) form for analysis. SGS is NATA accredited laboratory.

The equipment used for groundwater monitoring was hired from Active Environmental Solutions and the calibration certificates are provided in **Appendix VIII** – Calibration Certificates.

### 11.8.3 Laboratory analysis of groundwater samples

The groundwater samples were analysed for CoPC including Heavy metals/metalloids, TRH, BTEX, PAH, OC/OP, PCBs during the first and second monitoring events.

During the third monitoring event, all the above-mentioned CoPC was analysed in addition to Chromium VI (if any) leached from the soils.

### 11.8.4 Surface water samples

Surface water samples were collected from the two (2) farm dams located onsite; namely WD1 and WD2. Please refer to **Figure 3** in Appendix I for the location of site features. The samples were collected on two (2) monitoring events, 10th Nov 2022 and 10th Jan 2023.

Surface water samples for chemical analysis were carefully collected in sample containers supplied by the laboratory. The surface water samples from the dams were collected using an extension pole attached directly to the sampling containers. No decontamination procedures were required as no sampling tools were used that might cause cross-contamination.

Sampling containers were placed in a precooled esky with ice for sample preservation and transportation. The field forms were completed, and the samples were then transferred to SGS Australia Pty Ltd under the Chain of Custody (COC) form. SGS is NATA accredited laboratory.

### 11.8.5 Laboratory analysis of surface water samples

The surface water samples were analysed for CoPCs including Heavy metals, TRH, BTEX, PAH, OC/OP, PCBs during the first and second monitoring event. In addition, the surface water samples from both dams were analysed for Chromium VI during the second monitoring event on 10th January 2023. The summary of the surface water samples analysed in presented in **Table 8**.

## 11.9 Soil samples from the bottom of water dams

Soil samples were collected from the bottom of the two (2) farm dams located onsite; namely WD1 and WD2. Please refer to **Figure 3** in **Appendix I** for the location of the water dams and other site features. The samples were collected on two (2) monitoring events, 10th Nov 2022 and 10th Jan 2023.

The soil samples from the water dams were collected from the bottom surface of the dams using disposable nitrile gloves. No tools were used for the collection of soil samples from the water dams and hence no decontamination processes were required. The samples were believed to be representative of the soil accumulated on the bottom surface of the dam and the need for a vessel to collect the sample from the middle of the dam was not required.

Soil samples from the bottom of the dam for chemical analysis were carefully collected in glass jars supplied by the laboratory. Sampling containers were placed in a precooled esky with ice for sample preservation and transportation. The field forms were completed, and the samples were then transferred to SGS Australia Pty Ltd under the Chain of Custody (COC) form. SGS is NATA accredited laboratory.

It must be noted that the analysis of the soil samples from the water dams was undertaken to assess any potential chemical contamination from the soils onsite and does not warrant the absence of any hidden materials including but not limited to wastes, asbestos, and other hazardous materials hidden

inside the dams. K2 does not take any ownership if any such items are discovered in the dams during dewatering and unexpected finds procedures in **Section 19** must be followed during such incidents.

### 11.9.1 Laboratory analysis of soil samples from the water dams

The soil samples from the water dams were analysed for CoPCs including Heavy metals, TRH, BTEX, PAH, OC/OP, PCBs on 10th Nov 2022 and 10th Jan 2023.

One sample collected from WD1 on 10th Jan 2023 was analysed for Cr-VI, as elevated concentrations of total chromium above LOR were observed in WD1 during the previous sampling events.

Table 8. Summary of analysis – Surface water monitoring event

| Sampled Date | Surface dam | Sample ID | Analysis |
|---|---|---|---|
| 10.11.2022 | WD1 | ST-01-1533-WD1 | Heavy metals (As, Cd, Cr, Cu, Pb, Ni, Hg, and Zn), TRH, PAH, BTEX, PCB, OCP/OPP |
| | WD2 | ST-01-1533-WD2 | |
| 10.01.2023 | WD1 | ST-01-1533-WD1 | Heavy metals (As, Cd, Cr III, Cr VI, Cu, Pb, Ni, Hg, and Zn), TRH, PAH, BTEX, PCB, OCP/OPP |
| | WD2 | ST-01-1533-WD2 | |

Table 9. Summary of analysis – Groundwater monitoring event

| Sampled Date | Surface dam | Sample ID | Analysis |
|---|---|---|---|
| 18.11.2022 (monitoring event 1) | GW4 | ST-01-1533- GW4 | Heavy metals (As, Cd, Cr, Cu, Pb, Ni, Hg, and Zn), TRH, PAH, BTEX, PCB, OCP/OPP |
| | GW5 | ST-01-1533-GW5 | |
| 25.11.2022 (monitoring event 2) | GW4 | ST-01-1533- GW4 | Heavy metals (As, Cd, Cr, Cu, Pb, Ni, Hg, and Zn), TRH, PAH, BTEX, PCB, OCP/OPP |
| | GW5 | ST-01-1533-GW5 | |
| 10.01.2023 (monitoring event 3) | GW4 | ST-01-1533- GW4 | Heavy metals (As, Cd, Cr, Cu, Pb, Ni, Hg, and Zn), TRH, PAH, BTEX, PCB, OCP/OPP, Cr-III, Cr-VI |
| | GW5 | ST-01-1533-GW5 | |

# 12 SITE ASSESSMENT CRITERIA

## 12.1 Soil Assessment Criteria

The adopted site assessment criteria (SAC) used in this investigation were obtained from the Assessment of Site Contamination, National Environment Protection (Assessment of Site Contamination) Measure (1999), 2013 Amendment.

- Health Investigation Levels (HILs)

Based on the current and the proposed land use (large rural residential lots), **HIL A (Residential)** was considered as the appropriate criteria (Tier 1 screening criteria) relevant to this investigation. Hence the HIL A criteria were adopted.

HIL A- Residential with garden/accessible soil (homegrown produce <10% fruit and vegetable intake, (no poultry), also includes children's day-care centres, preschools, and primary schools.

- Health Screening Levels (HSLs)

HSLs were established for specific petroleum hydrocarbon fractions to assess the human health risk from vapour inhalation and direct contact pathways. The HSLs can vary depending on the physio-chemical properties of the soil, soil depth, and the presence of any building structures on site. The NEPM HSLs adopted for this investigation were developed for Silt (silt, silty clay, and silty clay loam) and are summarised in **Table 12.**

- Management Limits

Management limits apply to petroleum hydrocarbon fractions (F1, F2, F3, and F4) and indicate the maximum acceptable values on a site and apply to all soil depths if any petroleum hydrocarbon contamination is identified on a site. Management limits should be considered to identify the presence of non-aqueous phase liquids (NAPL), gross petroleum hydrocarbon contamination, potential fire or explosive risks, and damage to buried infrastructure and aesthetics of the site associated with petroleum hydrocarbons.

Based on the current and future development, the Management Limits adopted during this investigation are **'Residential, parkland and public open spaces'** and are summarised in **Table 12.**

- Ecological Investigation Levels (EILs)

Ecological Investigation Levels (EILs) and Added Contaminant Limits (ACLs), where appropriate, have been derived for selected metals (As, Pb, Cu, Ni, Cr III, Zn) and organic compounds (DDT and Naphthalene) and are applicable for assessing risk to terrestrial ecosystems (NEPC, 2013). The EILs generally apply to the top 2 m of the soil.

| |
|---|
| Site-specific EILS were calculated based on the below formula:<br><br>EIL=ABC (ambient background concentration) + ACL (added contaminant limit) |

Input values were obtained from the laboratory analysis of two (2) soil samples collected from the natural profile at 0.6 m and 0.5 m BGL for Cation Exchange Capacity (CEC), pH and % Clay content.

The following input values were used to derive EILs:

- A low traffic volume in NSW;
- Conservative organic carbon content of 1% as site-specific values was not calculated;
- The average clay content of 21% in the absence of site-specific test results;
- An average pH of 7.5 was obtained from site-specific testing; and
- An average cation exchange capacity (CEC) of 10.6 meq/100g was obtained from site-specific testing.

Based on the site history and the assessment of the site, any contamination onsite was considered to be aged (i.e. not fresh). Due to the unavailability of iron content data in soils, a conservative iron content of 1% w/w has been used. The remaining parameters necessary for the EIL calculation (such as CEC, Clay content, and pH) were obtained from the laboratory analysis. The site-specific EILs calculated from the above parameters are presented in **Table 10** below.

Table 10. Site Assessment Criteria -Ecological Investigation Levels

| Analyte | EIL (mg/kg) – Site-specific (Aged) |
|---|---|
| Arsenic | 100 |
| Copper | 210 |
| Nickel | 180 |
| Chromium | 520 |
| Lead | 1100 |
| Zinc | 500 |
| Naphthalene | 170 |
| DDT | 180 |

- Ecological Screening Levels (ESLs)

Ecological screening levels (ESLs) have been developed for selected petroleum hydrocarbon compounds and total petroleum hydrocarbon (TPH) fractions and are applicable for assessing risk to terrestrial ecosystems. ESLs broadly apply to coarse- and fine-grained soils and various land uses. They are generally applicable to the top 2 m of soil.

The ESLs presented in **Table 11** below have been adopted from **Urban residential and public open space** criteria in NEPM Schedule B1 for *'fine'* soils.

Table 11. Ecological Screening Levels

| Analyte | | ESL (mg/kg) |
|---|---|---|
| Total Recoverable Hydrocarbons | C6-C10 (less BTEX) | 180 |
| | >C10-C16 | 120 |
| | >C16-C34 | 1300 |
| | >C34-C40 | 5600 |
| BTEX | Benzene | 65 |
| | Toluene | 105 |
| | Ethylbenzene | 125 |
| | Xylene | 45 |
| Polycyclic Aromatic Hydrocarbons | Benzo(a)pyrene | 0.7 |

- Acceptable statistical analysis

The soil sampling program was undertaken using a stratified sampling pattern in AEC 1, 2, and 3 and using a judgemental pattern in AEC5.

Soil samples were collected in a systematic pattern. The soils with contaminant concentration that meets the following criteria will be considered acceptable:

- The maximum concentration of analytes in all samples meet the adopted acceptance criteria; or
- The 95% UCL average concentration of each contaminant is below the adopted acceptance criteria; and
- No individual exceedance is greater than 2.5 times the acceptance criteria.

A location will be a 'hot spot' and requires further management, including additional assessment and remediation if the analytes exceed 250% of the SAC.

Table 12. Site Assessment Criteria

| Analytes | Soil Investigation Criteria | | | | | | Groundwater and surface water Investigation criteria | |
|---|---|---|---|---|---|---|---|---|
| | Health Investigation Levels (A)[1] | Health Screening Levels Residential (A)[2] | | Management Limits (A) Fine soils (mg/kg) | EIL - site specific (mg/kg) | ESL (mg/kg) | AWDG[3] (µg/L) | ANZECC & ARMCANZ (2000)- Trigger values for freshwater (µg/L)-95%ile |
| | | HSL (mg/kg) | Direct Contact (mg/kg) | | | | | |
| Arsenic (total) | 100 | - | - | - | 100 | - | 10 | 24 |
| Cadmium | 20 | - | - | - | - | - | 2 | 0.2 |
| Chromium (VI) | 100 | - | - | - | - | - | 50 | 1 |
| Copper | 6000 | - | - | - | - | - | 2000 | 1.4 |
| Lead | 300 | - | - | - | - | - | 10 | 3.4 |
| Mercury (inorganic) | 40 | - | - | - | - | - | 1 | 0.6 |
| Nickel | 400 | - | - | - | - | - | 20 | 11 |
| Zinc | 7400 | - | - | - | - | - | - | 8 |
| Polycyclic aromatic hydrocarbons (PAHs) | 300 | - | - | - | - | - | - | - |
| Carcinogenic PAHs (As BaP TEQ) | 3 | - | - | - | - | - | - | - |
| Phenols | 3000 | - | - | - | - | - | - | 320 |
| DDT+DDE+DDD | 240 | - | - | - | - | - | - | - |
| Aldrin and Dieldrin | 6 | - | - | - | - | - | - | - |
| Chlordane | 50 | - | - | - | - | - | - | 0.14 |
| Endosulfan | 270 | - | - | - | - | - | 20 | 0.08 |
| Endrin | 10 | - | - | - | - | - | - | 0.02 |
| Heptachlor | 6 | - | - | - | - | - | - | 0.09 |
| Hexachlorobenzene | 10 | - | - | - | - | - | - | - |
| Methoxychlor | 300 | - | - | - | - | - | - | - |
| Chlorpyrifos | 160 | - | - | - | - | - | 10 | - |
| Benzene | - | 0.6 | 100 | - | - | 65 | 1 | 950 |
| Toluene | - | 390 | 14000 | - | - | 105 | 800 | - |

| Analytes | Soil Investigation Criteria | | | | | | Groundwater and surface water Investigation criteria | |
|---|---|---|---|---|---|---|---|---|
| | Health Investigation Levels (A)[1] | Health Screening Levels Residential (A)[2] | | Management Limits (A) Fine soils (mg/kg) | EIL - site specific (mg/kg) | ESL (mg/kg) | AWDG[3] (µg/L) | ANZECC & ARMCANZ (2000)- Trigger values for freshwater (µg/L)-95%ile |
| | | HSL (mg/kg) | Direct Contact (mg/kg) | | | | | |
| Ethyl Benzene | - | NL | 4500 | - | - | 125 | 300 | - |
| Xylene | - | 95 | 12000 | - | - | 45 | 600 | - |
| Naphthalene | - | 4 | 1400 | - | 170 | - | - | - |
| TRH: $C_6 - C_{10}$ (F1) | - | 40 | 4400 | 800 | - | 180 | - | - |
| TRH: $>C_{10}-C_{16}$ (F2) | - | 230 | 3300 | 1000 | - | 120 | - | - |
| TRH: $>C_{16}- C_{34}$ (F3) | - | - | 4500 | 3500 | - | 1300 | - | - |
| TRH: $>C_{34} - C_{40}$ (F4) | - | - | 6300 | 10000 | - | 5600 | - | - |
| Dibenz(a,h) anthracene | - | - | - | - | - | - | - | - |
| PAH(Total) | 300 | - | - | - | - | - | - | - |
| Benzo(a)pyrene | - | - | - | - | - | 0.7 | 0.01 | - |

1. HIL A-standard residential with garden/accessible soil (home-grown produce <10% fruit and vegetable intake, (no poultry), includes children's day-care centres, preschools, and primary schools.
2. Health Screening Levels (HSL) for surface soils 0 m to <1 m where applicable. NL - Not Limiting.
3. AWDG-Drinking water (Australian Drinking Water Guidelines 2011, updated 2022)
4. GIL-Freshwater (NEPM schedule B1)

## 13 Groundwater and Surface water Assessment Criteria

- Groundwater investigation levels

The NEPM guidelines have established the following groundwater investigation levels of human health risks from a broad range of organic and inorganic contaminants for drinking water, freshwater, and marine water.

For the purpose of this assessment in relevance to the proposed and the current use of the site as residential use, the following guidelines were adopted for the investigation of chemical contaminants in groundwater:

- Australian and New Zealand Guidelines for Fresh and Marine Water Quality, 2000;
- Australian Drinking Water Guidelines, 2011, version 3.8 - updated Sep 2022;

Australian and New Zealand Guidelines for Fresh and Marine Water Quality (Volume 1) have established guidelines for trigger values for toxicants at alternative levels of protection for the following ecosystem conditions:

- High conservation/ecological value (Level of protection (% species): 99%)
- Slightly to moderately disturbed ecosystems (Level of protection (% species): 95%
- Highly disturbed ecosystems (Level of protection (% species): 90%

<u>Slightly to moderately disturbed ecosystems-95% species protection</u>

Based on the historical land use of the site as pastoral land which was primarily used for grazing and sheep rearing purposes it is considered that the land is slight to moderately disturbed.

Hence a 95%ile trigger value for freshwater was adopted and was considered as the appropriate criteria relevant to this investigation since the site is subject to receiving runoff from land disturbed to varying degrees by grazing or pastoralism as inferred in section 3.1.3.1 of ANZECC & ARMCANZ (2000) – Fresh and Marine water quality guidelines.

- Surface water investigation levels

For the purpose of this assessment in relevance to the proposed and the current use of the site as residential use, the following guidelines were adopted for the investigation of chemical contaminants in groundwater:

- Australian and New Zealand Guidelines for Fresh and Marine Water Quality, 2000; and
- Australian Drinking Water Guidelines, 2011, version 3.8 - updated Sep 2022.

Criteria for slightly to moderately disturbed ecosystems were adopted due to the historical use of the site and its surrounding land for pastoral and grazing purposes.

# 14 RESULTS AND DISCUSSION

## 14.1 Field Observations

Minor visual evidence of contamination was noted during the fieldwork investigation. In addition, during groundwater monitoring visual and olfactory observations were taken of the water quality. Water was reported to be clear with no odour post-purging in all groundwater wells installed (GW4 and GW5).

Topsoil was noted between 0.0-0.2m BGL during the field investigation in all soil bore. The topsoil was generally dark brown, moist, moderately stiff, and organic with the presence of roots. Fill material consisting of road base aggregates was observed between the depth of 0.0-0.5 m BGL underneath the access road surface and nearby built-up areas within AEC2 and AEC3. In the remaining sections of the site, the soil profile beneath 0.2m BGL up to the termination depth of 1.5 m BGL constituted natural soil and in some cases transitioned from a silty clay profile to a clayey silt. The natural layer was generally either light brown or red-brown-orange mottled and/or yellow-grey-brown mottled, slightly moist, and slightly stiff. The soil lithology is provided in **Table 13** below and bore log details are presented in **Appendix III - Bore logs.**

Table 13. Soil lithology

| Soil profile | Depth (m BGL) | Soil type |
|---|---|---|
| Topsoil | 0.0 to 0.2m BGL | Silty clay. Dark brown, moderately stiff, moist, organic, roots. |
| Fill (driveway and the built-up areas of AEC3) | 0.2 to 0.5m BGL (limited sections) | Clayey silt with gravels. Grey, loose, dry. |
| Natural | 0.2 to 1.5m BGL (limited sections) | Silty clay to clayey silt, light brown/ red-brown-orange mottled/ yellow-grey-brown mottled, slightly stiff, slightly moist. |

During intrusive site investigation and site walkover inspections, no indications of potential contamination such as staining, odour, and discolouration were encountered. Due to the absence of any olfactory or visual evidence, no PID readings were taken on-site during this investigation.

## 14.2 Analytical Results

### 14.2.1 Soils

A total of eighty-eight (88). primary samples and four (4) QA/QC soil samples were analysed from eighty-eight (88) borehole locations and analysed for a range of CoPC as presented within section 10. Based on the analytical result from the DSI all CoPC were reported below the adopted SAC in all soil samples tested. A summary of laboratory results is provided in **Appendix VI** and laboratory certificates are provided in **Appendix VII**.

**Heavy Metals**

The concentrations of Heavy metals – Arsenic, Cadmium, Copper, Lead, Mercury, Nickel, and Zinc were below the SAC (HIL-A).

**Chromium in soils**

Total Chromium concentration was recorded between 5 mg/kg and 310 mg/kg in all the primary soil samples analysed. Additional 44 samples (i.e 50% of the primary samples) were selected for chromium speciation analysis. The analytical result shows that three (3) samples for Cr VI marginally exceeded the LOR of 0.5 mg/kg and well below the SAC of 100 mg/kg for Chromium VI. The speciation study also indicated that Cr III.

Ten (10) samples were selected based on the highest total chromium concentration and were subjected to Australian Standard Leaching Procedure (ASLP) test procedure. Leachate prepared from the ten (10) samples did not record any exceedances of Cr-VI above 0.004 mg/L.

**Potential sources of soil chromium contamination at the site**

Based on review of desktop information i.e., historical photographs, current and historical title records, aerial imaginary etc, K2 did not identify any potential site and/or anthropogenic activities which indicate chromium as a source of primary CoPC.

Total Chromium was detected in all eighty-eight (88) samples tested across the site. Further analysis on chromium speciation identified that chromium concentration was contributed by Cr III. Cr VI concentrations were reported below LOR in all soil samples analysed. It is understood that soil chromium is usually present in the Cr III oxidation state and is environmentally benign. The oxidised form – Cr VI is toxic, carcinogenic, and typically highly mobile in the environment.

It is also understood that chromium could be detected as natural background particularly as CR III form (Karl K, 1956). Karl K. (1956) indicates that chromium and nickel could be formed as a mineral naturally in basaltic rocks. During the fractional crystallization of basaltic magma, chromium-nickel ratio is preserved from the source of basaltic magma. Information obtained from the NSW Department of Planning, Industry and Environment portal eSpade and the geology of Crookwell consists of olivine basalt and dolerite to tertiary lava flows, which could be a potential source of total chromium in soils analysed from the site.

In addition, a case study undertaken by Burton et.al (2019) which investigated chromium geochemistry in bushfire-affected soils indicates that heating of naturally occurring Cr III in soils substituted iron oxides and drives rapid oxidation to the formation of Cr VI. This paper was also acknowledged by the Australian Nuclear Science and Technology Organisation (ANSTO) of the Australian Government. Any minor concentration of Cr VI detected on site could have been contributed by change in oxidation state caused by natural subsurface processes including bushfires.

**TRH**

The concentration of TRH in all the soil samples analysed was below the LOR.

**BTEX**

The concentration of BTEX in all the soil samples analysed was below the LOR.

**PAH**

The concentration of PAH in all the soil samples analysed was below the LOR.

**PCB**

The concentration of total PCB in all the soil samples analysed was below the LOR.

As the site investigation has targeted particular features and areas of concern, statistical analysis of the results will not be undertaken and a direct comparison of the analytical results to the guidelines has been undertaken. Laboratory Results are presented in **Appendix VI** and **Appendix VII** for the lab results summary and lab reports of the analysis respectively.

### 14.2.2 Soil samples from the surface water dam

Two (2) soil samples (sample ID: ST-01-1533-WD1) and (sample ID: ST-01-1533-WD2) were collected from the bottom surface of the two surface water dams onsite, WD1 and WD2 respectively on 10th November 2022. Based on the laboratory analysis data, the concentrations of CoPC were below the adopted SAC of HIL A.

One (1) soil sample (ST-01-1533-WD1) was collected from the bottom surface of the water dam (WD1) on 10th January 2023. Based on the laboratory analysis data, the concentrations of CoPC were below the adopted SAC of HIL A.

### 14.2.3 Groundwater

Two (2) ground water monitoring wells were installed and developed on 10th November 2022.

A total of two primary samples were analysed for a range of CoPC; laboratory results from the three (3) sampling event is discussed below. Groundwater samples were collected from wells GW4 and GW5 on 18th Nov 2022, 25th Nov 2022 and 10th Jan 2023 for the following CoPC:

Based on all laboratory data it is inferred that one (1) groundwater sample collected on 10th Jan 2023 from the monitoring well (GW5) exceeded the SAC for Cr VI (SAC-1 µg/L – ANZECC guidelines-95% species protection) but below the (SAC - 50 µg/L – Australian Drinking Water Guidelines (2022)). Refer to **Table 14** below for a summary of Cr-VI exceedances in groundwater. The analysis of the remaining CoPCs indicated no exceedances in a concentration above the SAC of freshwater guidelines.

**Chromium VI in groundwater**

When Cr III oxidises into Cr VI in natural environment, it can become mobile and travel from soil matrix to groundwater. The concentration of Cr VI identified in groundwater is marginally above the LOR. Since there are no anthropogenic sources or evidence of chromium VI contamination identified on site (**Section 14.2.1**), it is likely that geogenic Cr III may have been oxidised into Cr VI under natural processes.

Table 14. Summary of exceedances in groundwater samples

| Water Dam ID | Sample ID | Sampled Date | Analyte | Analyte Concentration (µg/L) |
|---|---|---|---|---|
| GW5 | ST-01-1533-GW5 (3) | 10.01.2023 | Chromium VI | 14 |

### 14.2.4 Surface water

Surface water samples were collected from the two (2) surface water dams located on the map on 10th Nov 2022 and 10th Jan 2023.

Based on the laboratory analysis of two (2) samples collected on 10th Nov 2022 Sample ID: ST-01-1533-WD1 and ST-01-1533-WD2, it is inferred that:

- The water sample collected from the surface water dam (WD1) exceeded the concentrations for Copper above the SAC of- ANZECC 2000 guidelines 95% species protection but below the SAC for ADWG; and
- Water samples from WD2 exceeded the concentrations for Copper and Zinc above the SAC – ANZECC 2000 guidelines-95% species protection but below the SAC for ADWG.

Refer to **Table 15** below for a summary of exceedances.

Table 15. Summary of exceedances in surface water samples

| Water Dam ID | Sample ID | Sampled Date | Analyte | Analyte Concentration Exceedance (µg/L) |
|---|---|---|---|---|
| WD1 | ST-01-1533-WD1 (water dam) | 10.11.2022 | Copper | 2 |
| WD2 | ST-01-1533-WD2 (water dam) | | Copper | 3 |
| | | | Zinc | 16 |

## 15 QUALITY ASSURANCE AND QUALITY CONTROL – DISCUSSION

### 15.1 Soil

- Intra-lab and inter-lab duplicate samples

Four (4) inter-lab and four (4) intra-lab samples were used to identify any variation in analyte concentration from a sample collected from the same sampling point and ensure the repeatability of the laboratory's analysis method. Intra-lab samples were collected to determine the analytical proficiency of the laboratory.

Replicate data for field duplicates for organics is expected to be as follows:

- RPD criteria of 50% or less, for concentrations ≥10 times LOR.
- No limit on RPD criteria - if the primary and duplicate concentration is <10 times LOR; and
- If both sample values are less than the LOR, the RPD is not calculated.

Replicate data for field duplicates for inorganics, including metals is expected to be as follows:

- RPD criteria of 30% or less, for concentrations ≥10 times LOR.
- No limit on RPD criteria - if the primary and duplicate concentration is <10 times LOR; and
- If both sample values are less than the LOR, the RPD is not calculated.

If both sample values are less than the LOR, the RPD is not calculated. A summary of the RPD between the primary and duplicate samples is provided in **Appendix V**.

Three (3) exceedances in intra-lab samples above the acceptable RPD criteria were noted. Two (2) exceedances in inter-lab samples above the acceptable RPD criteria were noted. This can be attributed to the heterogeneity of the soil samples. Refer to **Appendix V** – RPD Comparison.

- Laboratory Duplicate samples

Quality Assurance (QA) and quality control measures were implemented throughout the investigation and this information is summarised in **Appendix IV**.

Although the laboratory QA/QC did not meet the acceptance criteria for some compounds of OC/OP, PAH, and VOC suites in two (2) samples. The explanation provided by the laboratory (in the supplied laboratory certificate in **Appendix VII**) was acceptable as follows:

- At least 2 or 3 surrogates are within acceptance criteria; and
- Recovery failed acceptance criteria due to matrix interference.

The RPD differences between the primary sample and the laboratory duplicate sample of the remaining compounds were within acceptable limits.

The data QA/QC results are included in **Appendix IV**. Based on the results of the field QA, field and laboratory QC, and evaluation against the data quality indicators (DQI) it is concluded that the field and laboratory test data obtained are reliable, representative, comparable and complete for interpretation to achieve the investigation outcome

- Method Blanks

Data provided by the laboratory indicated that the key contaminants of interest in the method blanks were below the relevant standard LORs.

- Trip blank and Trip spike

Laboratory analysis indicated the concentrations of the CoPC in the trip blank did not exceed the relevant LOR.

Laboratory analysis indicated the trip spike was within the acceptable range of the laboratory QA/QC.

### 15.2 Groundwater and surface water QA/QC

The groundwater and surface water investigations related to the site are considered to be preliminary and hence no quality control samples were collected during these preliminary investigations. The primary sample results are considered to be sufficient to draw overall conclusions related to the project.

## 16 Revised Conceptual Site Model

The following section provides a revised conceptual model for the Site as a result of onsite activities and the Generic Assessment of the analytical results in the relation to their risk to Human Health, Ecological and Controlled Water receptors.

### 16.1 Identified Contaminant Sources

Based on the DSI undertaken by K2 Consulting Group, the CoPCs are summarised below.

#### 16.1.1 Soil

No CoPCs were detected above the adopted SAC. There is a potential for contamination to be present below the building structures and the CoPCs include metals, TRH, BTEX, PAH and asbestos from the potential importation of any fill materials to assist in the construction of the buildings.

### 16.1.2 Groundwater

The concentration of Chromium VI marginally exceeded the adopted freshwater trigger values in one groundwater monitoring well (GW5).

### 16.1.3 Surface water

Exceedances of copper and zinc were noted in the surface water samples collected during the first round of investigation.

## 16.2 Receptors

The following receptors have been identified:

- Future end users of the proposed land use as low-density residential
- Site workers during the development phase of any future redevelopment
- Site users of surrounding properties
- The unconfined aquifer beneath the Site
- Surface water bodies in close proximity to the site
- Surrounding flora and fauna

## 16.3 Potential Pathways

The following pathways require consideration:

- Human Health
- Ingestion of soil
- Ingestion of groundwater
- Direct contact (i.e., groundwater)
- Terrestrial and Coastal Waters
- Migration of impacted groundwater to nearby surface water features
- Ecological
- Uptake of contaminants through the plant's root network.

## 16.4 Pollution Linkage Assessment

From the available data associated with the depth of fill materials and geology of the underlying site, it appears that minor soil disturbance has occurred during the historical use of the site. The concentrations of CoPC in soil recorded at the site are not considered a risk to human health or the wider environment.

With regards to the recorded elevated hexavalent chromium recorded at GW5 in excess of the EIL threshold value; further laboratory analysis was undertaken to determine the speciations of the chromium, (results are presented within Appendix VII). The results of the analysis indicated that the Cr VI exceeded the SAC (1 µg/L) (– ANZECC guidelines-95% species protection) but below the (SAC - 50 µg/L – ADWG (2022)). Taking this into consideration; the risk to the wider environment with regards to hexavalent chromium further assessment is recommended.

### 16.5 Summary of Significant Pollution Linkages

Based on the revised CSM, no significant pollution linkages have been identified in relation to the redevelopment of the site for the most sensitive end users. Further investigation and/or monitoring of groundwater is recommended to determine spatial and temporal variability of Cr VI in groundwater.

# 17 CONCLUSIONS

## 17.1 Detailed Site Investigation

Based on the AECs identified by K2 during the DSI and review of site information, K2 concludes the following:

**Soil**

- Fill materials were observed in the soils below the surface of the access road and built-up areas in AEC2 and AEC3;
- Laboratory analysis of soil samples collected during ESI and DSI indicated elevated concentrations of total Chromium. Hence selected soil samples were subjected to Cr VI analysis and ASLP for Cr III and CR VI;
- Cr VI concentrations in the soil samples analysed were below the adopted SAC of HIL-A. ASLP analysis of selected soil samples detected no exceedances in Cr III and Cr VI concentrations above LOR; and
- The concentration of the remaining CoPCs (Heavy metals (As, Cd, Cr III. Cr VI, Cu, Pb, Ni, Hg, and Zn), TRH, PAH, BTEX, PCB, OCP/OPP and asbestos) in the soil samples was detected below the SAC-HIL A.

Based on the above, it can be concluded that all CoPCs in the soils meet the site acceptance criteria.

**Surface Water**

Exceedances of copper and zinc were noted to be above the ANZECC 2000 95% species protection levels in the surface water samples. This could be potentially contributed to surface water runoff. The ANZECC 2000 guidelines aim to identify any potential impacts on aquatic species from various chemical contaminants. It must be noted that this is a farm dam located inside an agricultural property and is not directly connected to any surface water bodies. The nearest surface water body is the Wollondilly River which is located 1.8 km from the site. Moreover, soil samples collected upstream and downstream of the surface water dams did not indicate any elevated levels of copper and zinc in soils at concentrations that could trigger any further investigation. Considering the above information collected during the site investigation, it can be concluded that the presence of copper and zinc in the surface water is localised and hence does not pose a significant threat to ecological aquatic communities.

It must be noted that the concentration of copper and zinc was below the ADWG and hence does not pose any threat to human health risk. The surface water is not proposed to be used for drinking purposes in the future.

**Groundwater**

Groundwater exceedance for Cr VI was noted to be above the SAC of ANZECC 2000- 95% species protection levels. The concentration of Cr VI in groundwater is not considered to pose a significant ecological risk for the following reasons:

- The groundwater onsite does not drain directly into any water bodies that have protected ecological aquatic species. The closest waterbody is the Wollondilly River which is located 1.8 km from the site;

- Cr VI was neither detected in any soil samples nor in ASLP leaching tests, which indicates that Cr VI is not prevalent in soil medium onsite and hence the potential for any vertical movement of Cr VI into groundwater is ruled out; and
- The potential for any migration of Cr VI from offsite sources was considered, however, it is unlikely as no activities such as industrial, electroplating, or other metal works were noted to be present in neighbouring properties.

Based on the above, it can be concluded that the concentration of Cr VI detected in groundwater is likely from the natural oxidation processes of Cr III as geogenic source and is not identified as a direct contamination source as result of historical land use at the site. Based on the findings above the on-site groundwater contamination from Cr VI onsite does not pose a significant risk to the ecological aquatic species.

Based upon the investigations performed to date no potential pollutant linkages have been identified within the underlying soils which could be a risk to human health or the wider environment. Further investigation and monitoring are recommended for groundwater at AEC3 or near GW5.

On the basis that pollution linkages exist in relation to the site and the identified receptors, it is recommended that the Site be considered suitable for the proposed use, with further groundwater investigations of groundwater to address exceedances of Cr-VI in the groundwater system. The concentration of Cr VI was below the ADWG and is not proposed for human consumption in the future.

### 17.2 Data gaps

- The soils in the footprints of the dwelling shed, silo and storage in AEC1, AEC2, and AEC3 were not sampled due to access restrictions. Hence the possibility of fill materials exists in those areas; and
- The soils collected in AEC5 did not identify the presence of any CoPCs above the soil SAC. However, the minimum sampling density is not achieved during this investigation as a targeted sampling approach was adopted. Based on the site observation and soil chemistry data, although the likelihood of identifying contamination is low, the probability cannot be ascertained. Hence this is considered a data gap in the investigation.

## 18 RECOMMENDATIONS

Based on DSI results, K2 recommends the following:

- The septic system must be decommissioned and the soils in the vicinity shall be tested prior to further management;
- Complete a hazardous materials assessment of the building materials onsite before the commencement of demolition activities;
- Based on the site profile, the likelihood of the presence of fill materials below the building materials is low, however, it cannot be ruled out. The soils must be investigated for the presence of any fill materials after the demolition of the buildings on site and if any indications for the presence of fill materials are identified, then the unexpected finds procedure in **Section 19** shall be implemented;
- Prepare a surface water dewatering plan based on the data collected during this investigation. It is recommended that one additional round of water sampling is undertaken from the surface water dams to identify the status of the water before decommissioning to validate the absence of any heavy metals identified during this investigation; and
- If any potential contaminants are identified during soil bulk excavation works, follow the protocol of the unexpected work in **Section 19**.

## 19 UNEXPECTED FINDS PROCEDURE

During excavation, if visual indications of contamination are present such as significantly stained soils, odorous soils, sheen, tarry or ashy material, or unexpected anthropogenic material (other than what is expected to be encountered on site, including asbestos) then,

1. STOP EXCAVATION in the immediate/affected area;
2. Notify the Supervisor, Environmental Site Representative, and Client;
3. Contact a suitably qualified environmental consultant and Hygienist and seek further advice;
4. If required, separate the contaminated materials from non-contaminated materials based on the advice of the environmental consultant and other stakeholders;
5. suitably qualified environmental consultant to conduct an assessment of the material to determine suitability for reuse onsite. This step may require sampling and laboratory analysis; and
6. Ensure all re-use or off-site disposal plans are recorded before the re-commencement of works in the affected area.

**Unexpected finds procedure (Asbestos)**

In the event of the discovery of suspected asbestos-containing materials, the following steps are recommended to be undertaken:

1. Stop excavation in the immediate/affected area. Demarcate and isolate the area from workers;
2. Notify the Supervisor;
3. A trained and competent person such as an Environmental consultant/occupational hygienist must be engaged to identify the asbestos;
4. For less than 10m$^2$ of non-friable asbestos contamination, proceed with non-licenced asbestos removal and disposal in accordance with the Code of Practice: How to safely remove asbestos (2019);
5. For greater than 10m$^2$ of non-friable asbestos contamination, an environmental consultant or an occupational hygienist and a licenced asbestos removalist must be engaged for asbestos removal works in accordance with the Code of Practice: How to safely remove asbestos (2019);
6. For friable asbestos contamination, proceed with licenced asbestos removal work in accordance with per NSW SafeWork Code of Practice and other relevant contaminated land guidelines; and
7. Suitable for on-site reuse? Provide the client with the results of the assessment before proceeding to the next step.

For higher-risk situations, involving the risk of explosion and/or damage to underground services, the local authorities and emergency teams shall be contacted to manage the situation.

## 20 LIMITATIONS

This report has been prepared for use by the Client who has commissioned the works in accordance with the project brief only and has been based on information provided by the client. The advice herein relates only to this project and all results, conclusions, and recommendations made should be reviewed by a competent and experienced person with experience in environmental and occupational hygiene investigations, before being used for any other purpose.

The report is reviewed and authorised by Dr. Dawit Bekele (Certified Site Contamination Specialist CEnvP-SC (ID. SC41149) of crcCARE Pty Ltd. Dr. Dawit has provided an expert review of this report based on the information and data provided by K2. K2 Environmental Services Pty Ltd (K2) accepts no liability for use or interpretation by any person or body other than the client who commissioned the works. This report should not be reproduced or amended in any way without prior approval by the client or K2 and should not be relied upon by any other party, who should make their independent inquiries. This report does not provide a complete assessment of the status of the site, and it is limited to the scope defined herein. Should information become available regarding conditions at the site including previously unknown sources of contamination, K2 reserves the right to review the report in the context of the additional information. When interpreting reports from other parties, K2 assumes that the works undertaken were of a high standard. K2 does not take responsibility for the work or quality of reports produced by other parties involved in the project at any time.

K2's professional opinions are based upon its professional judgment, experience, training, and results from analytical data (if applicable). In some cases, further testing and analysis may be required, thus producing different results and/or opinions. K2 has limited investigation to the scope agreed upon with its client. It should be noted only the subject area outlined in this report was inspected and adjacent areas may contain asbestos. K2 reserves the right to retract, review and amend this report if an omission, error, or further investigation is required that may affect the conclusions in the report.

Unless otherwise agreed in writing and signed by both parties, K2's total aggregate liability will not exceed the total consulting fees paid by the client in relation to this proposal. K2 has used a degree of care and skill ordinarily exercised in similar investigations by a reputable member of the Environmental Industry within Australia. No other warranty, expressed or implied, is made or intended.

## 21 REFERENCES


- National Environment Protection Council (NEPC) 2013A, 'Schedule B(1) Guideline on Investigation Levels for Soil and Groundwater, National Environment Protection (Assessment of Site Contamination) Measure (NEPM) (amended in May 2013)'.
- National Environment Protection Council (NEPC), National Environment Protection (Assessment of Site Contamination) Measure 1999, NEPM, Canberra. Schedule B2: Guideline On-site Characterisation (2003).
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- SafeWork NSW Code of Practice: How to Manage and Control Asbestos in the Workplace (2022).
- SafeWork NSW Code of Practice: How to Safely Remove Asbestos (2022).
- Preliminary Site Investigation, Report No: 20027CC-001, dated 28th October 2021 (Civplan PSI 2021).
- NSW Department of Planning, Industry and Environment portal eSpade (https://www.environment.nsw.gov.au/eSpade2Webapp/#).
- Australian and New Zealand Environment and Conservation Council (ANZECC) & Agriculture and Resource Management Council of Australia and New Zealand (ARMCANZ), 2000 – Water Quality Guidelines and National Water Quality Management Strategy – Australian Drinking Water Guidelines (ADWG) 2011.
- Prof. Karl K. Turekian (1956), *The Chromium and Nickel distribution in basaltic rocks and Eclogites*, Yale University.
- Burton et. al. *Environ. Pollut.* 2019, 247 618-625.

**Appendix I**

**Aerial Photographs**

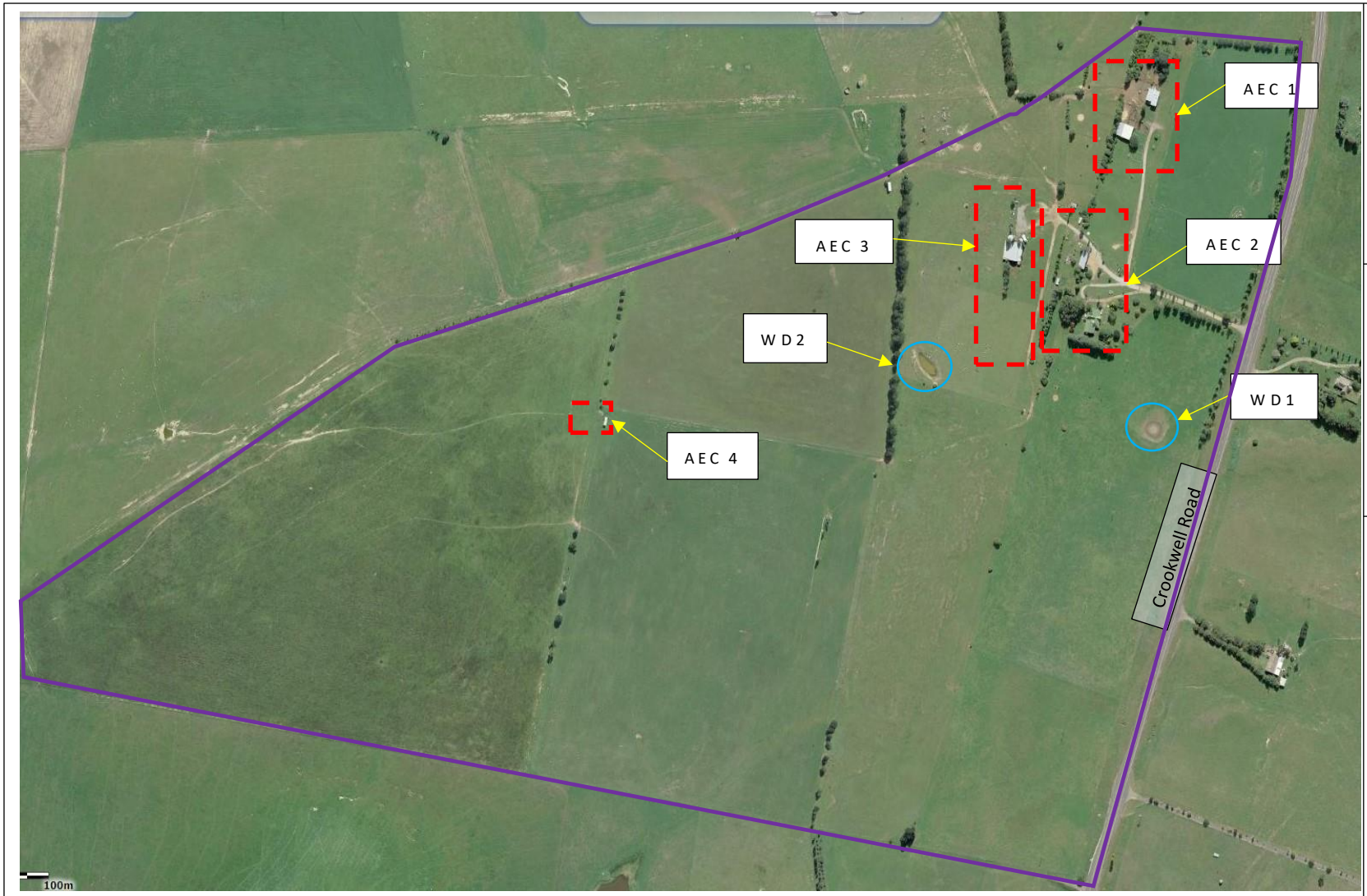



Figure 3. Aerial representation of the general site features.

Figure 4. A summary of site features

**Site Features**

1. Crookwell Road
2. Access Road (unpaved)
3. Residential Dwelling
4. Storage shed
5. Cattle mustering station
6. Storage shed
7. Workshop shed
8. Silo and shed
9. Above ground fuel tanks and IBCs
10. Farming equipment
11. Dog kennels and shed
12. Farming equipment and IBCs
13. Shed

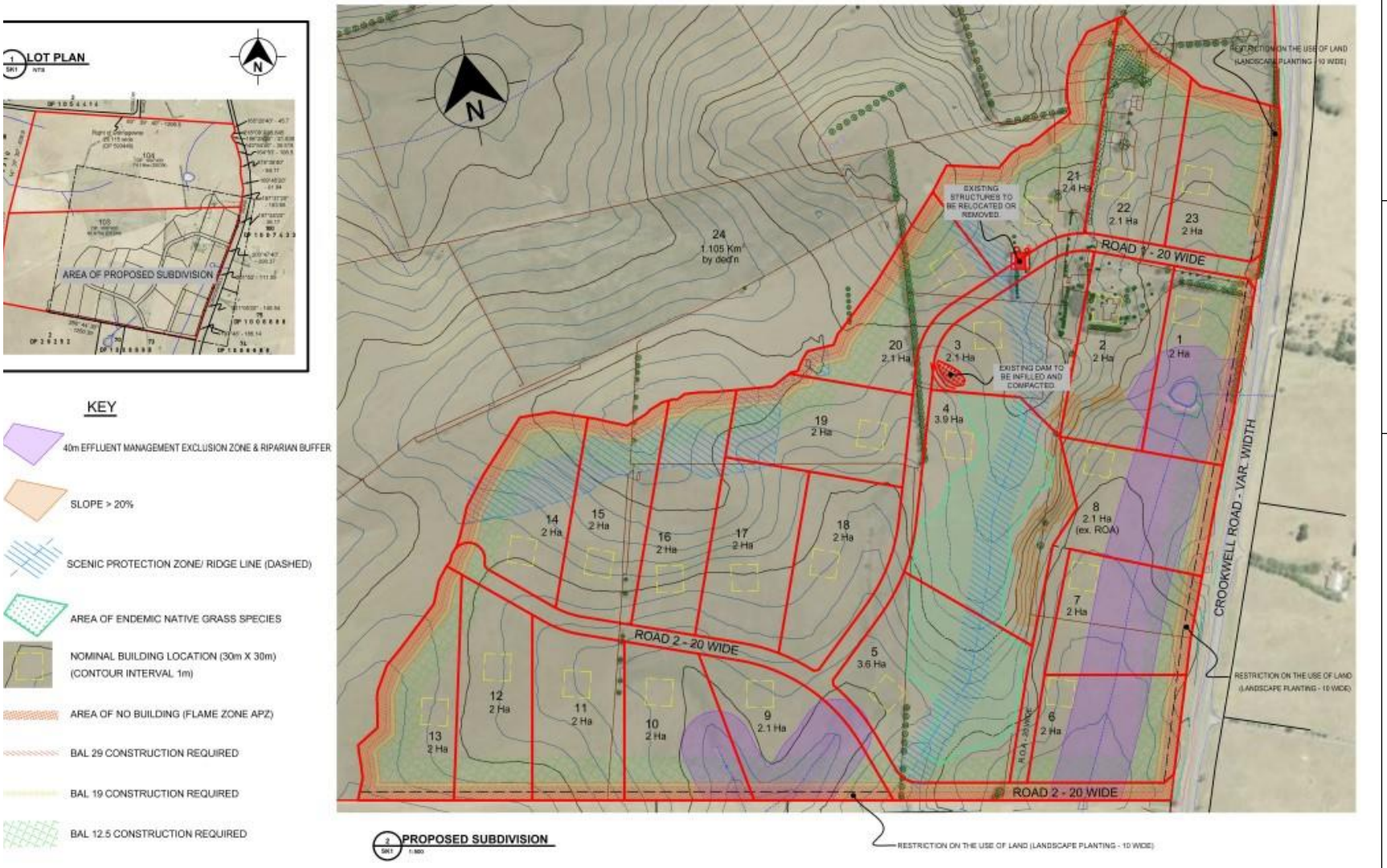



Figure 5. Proposed sub-division of the subject area on site (adapted from CivPlan PSI 2021)

Total Chromium concentration and ASLP results (August 2022)

| Borehole ID | Depth (m) | Conc (mg/kg) | ASLP – Cr VI (mg/L) | ASLP – Cr III (mg/L) |
|---|---|---|---|---|
| BH01 | 0.2 | 190 | <0.005 | 0.35 |
| | 0.7 | 150 | NA | NA |
| | 1.0 | 250 | <0.005 | <0.05 |
| BH02 | 0.4 | 110 | 0.010 | 0.18 |
| BH03 | 0.2 | 140 | <0.005 | 0.16 |
| | 0.5 | 150 | NA | NA |
| BH04 | 0.2 | 170 | NA | NA |
| | 0.4 | 110 | 0.011 | 0.20 |
| BH08 | 0.2 | 160 | 0.014 | 0.11 |
| BH11 | 0.2 | 130 | 0.016 | 0.044 |
| | 0.4 | 190 | NA | NA |
| SS02 | (Surface sample) | 140 | <0.005 | <0.05 |

NA* Not Analysed

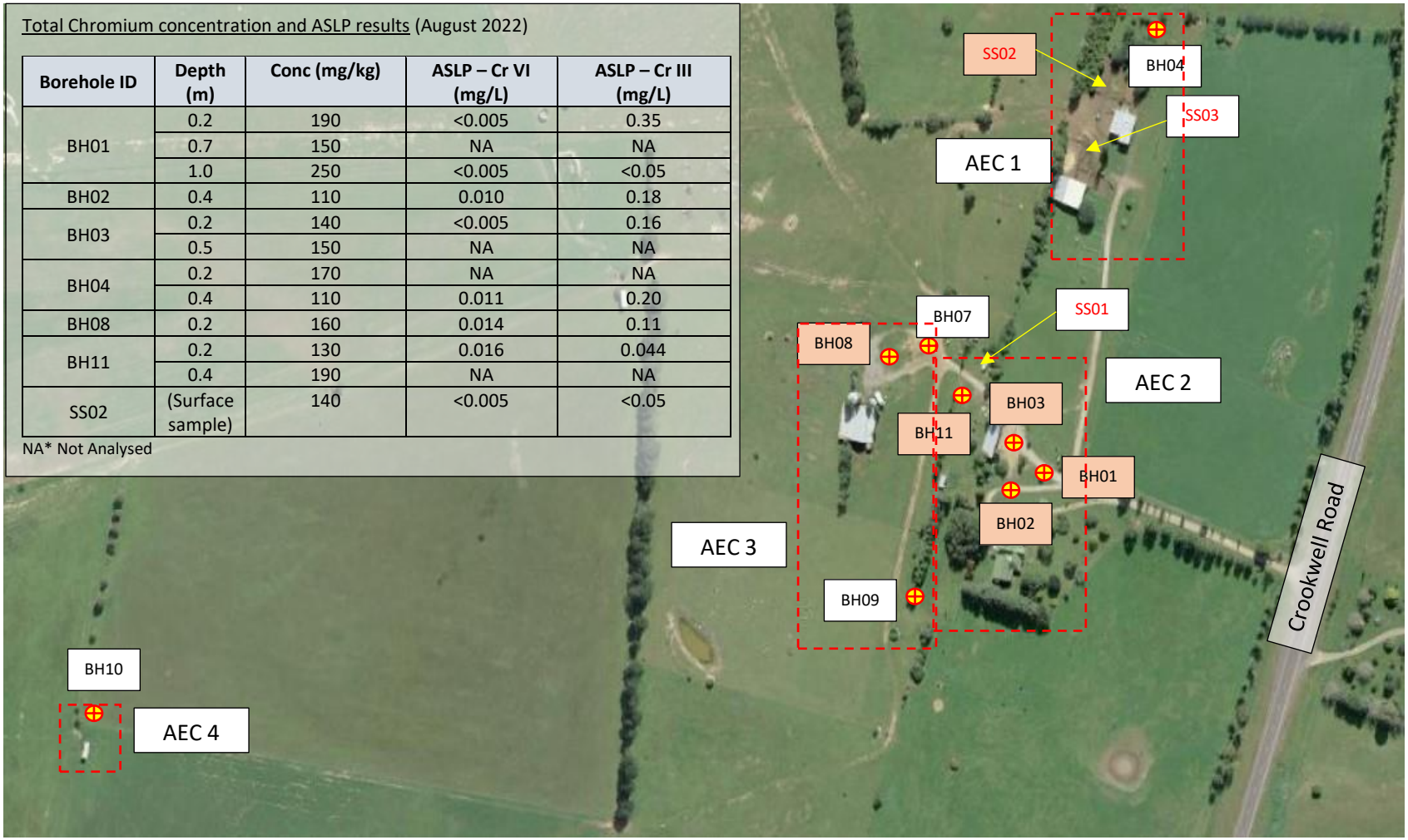



Figure 6. Borehole locations and Chromium concentrations during Stage 2 – ESI (August 2022).

Total Chromium (above 100 mg/kg) and Chromium VI concentration

| Borehole ID | Depth (m) | Total Chromium concentration (mg/kg) | Chromium VI concentration mg/kg) |
|---|---|---|---|
| BH13 | 0.2 | 140 | <0.5 |
| BH14 | 0.2 | 130 | <0.5 |
| BH15 | 0.5 | 120 | <0.5 |
| BH16 | 0.2 | 110 | <0.5 |
| BH19 | 0.2 | 110 | <0.5 |
| BH21 | 0.5 | 310 | <0.5 |
| BH27 | 0.2 | 110 | <0.5 |
| BH28 | 0.4 | 120 | <0.5 |
| BH31 | 0.2 | 110 | |

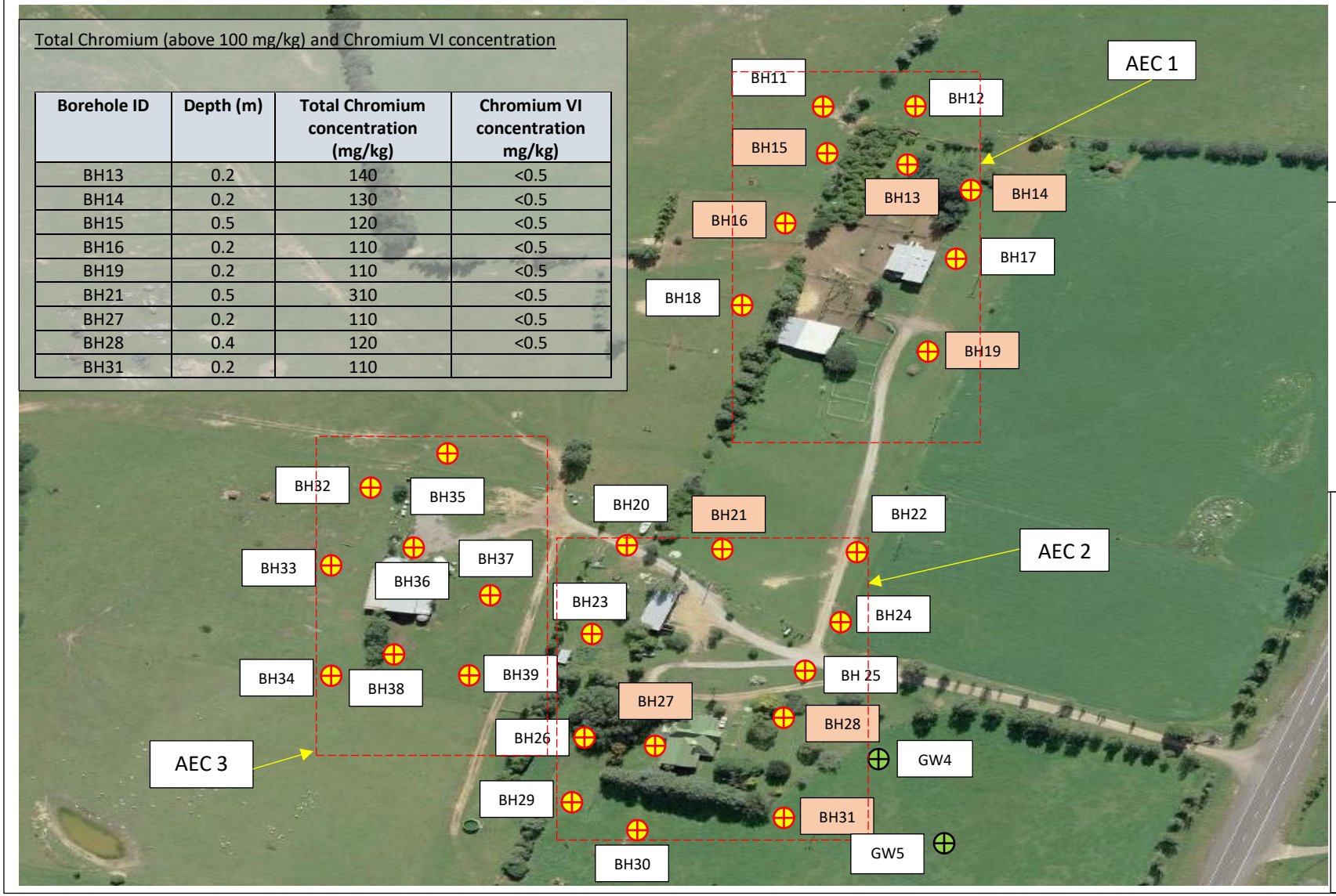
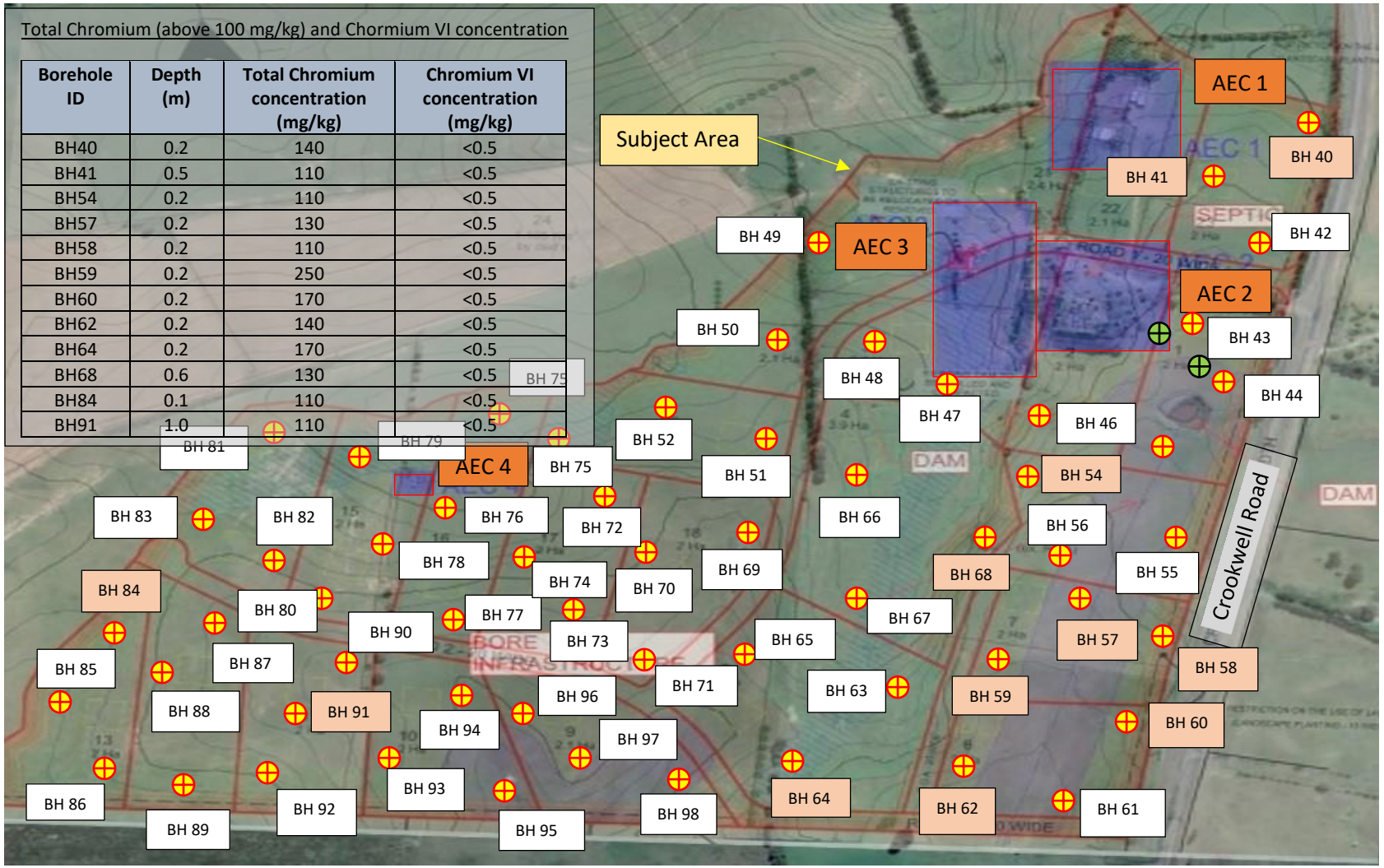



Figure 7. Borehole locations and summary of Total Chromium concentrations at AEC 1 and AEC 2. DSI (2023)

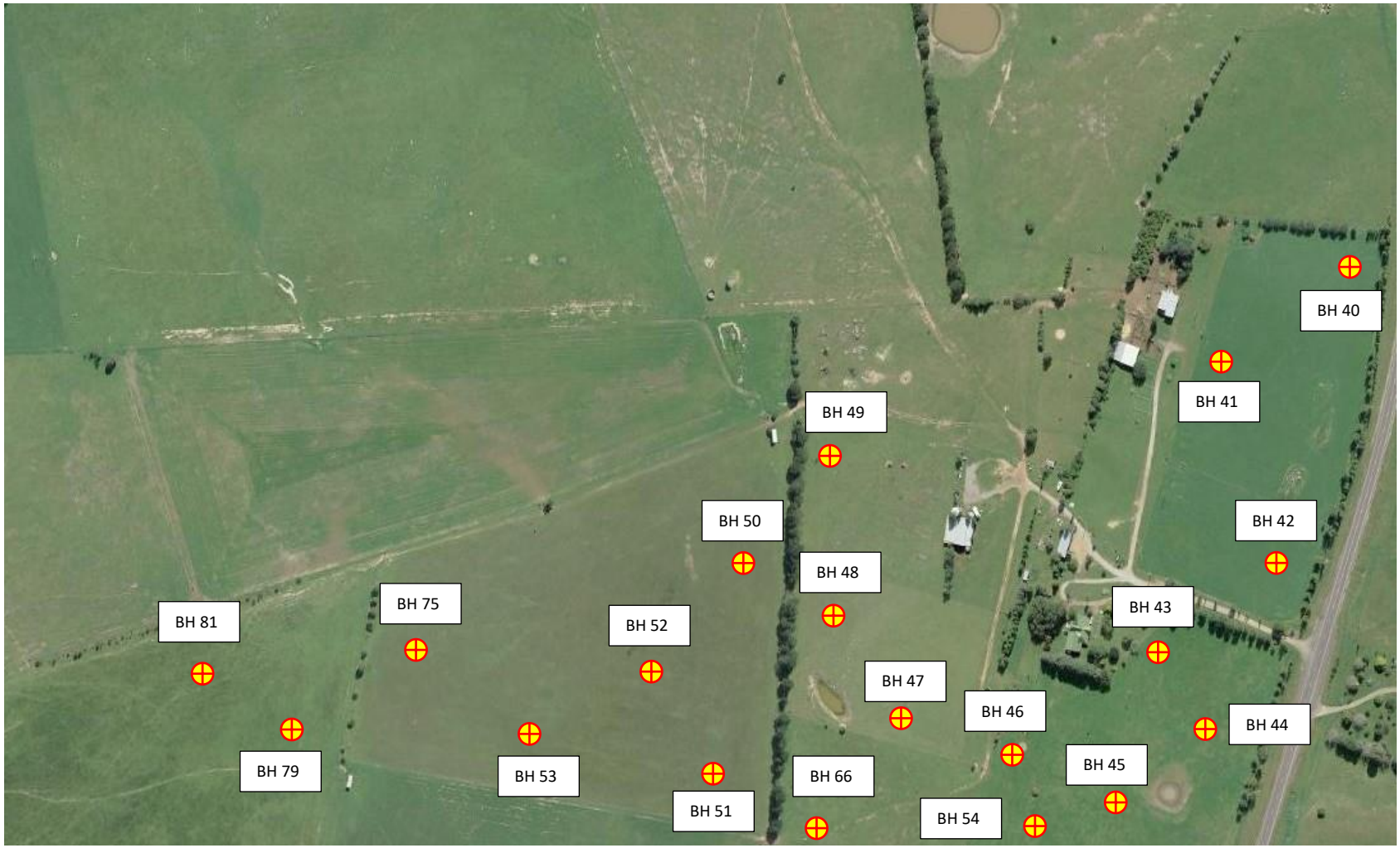
Total Chromium (above 100 mg/kg) and Chormium VI concentration

| Borehole ID | Depth (m) | Total Chromium concentration (mg/kg) | Chromium VI concentration (mg/kg) |
|---|---|---|---|
| BH40 | 0.2 | 140 | <0.5 |
| BH41 | 0.5 | 110 | <0.5 |
| BH54 | 0.2 | 110 | <0.5 |
| BH57 | 0.2 | 130 | <0.5 |
| BH58 | 0.2 | 110 | <0.5 |
| BH59 | 0.2 | 250 | <0.5 |
| BH60 | 0.2 | 170 | <0.5 |
| BH62 | 0.2 | 140 | <0.5 |
| BH64 | 0.2 | 170 | <0.5 |
| BH68 | 0.6 | 130 | <0.5 |
| BH84 | 0.1 | 110 | <0.5 |
| BH91 | 1.0 | 110 | <0.5 |



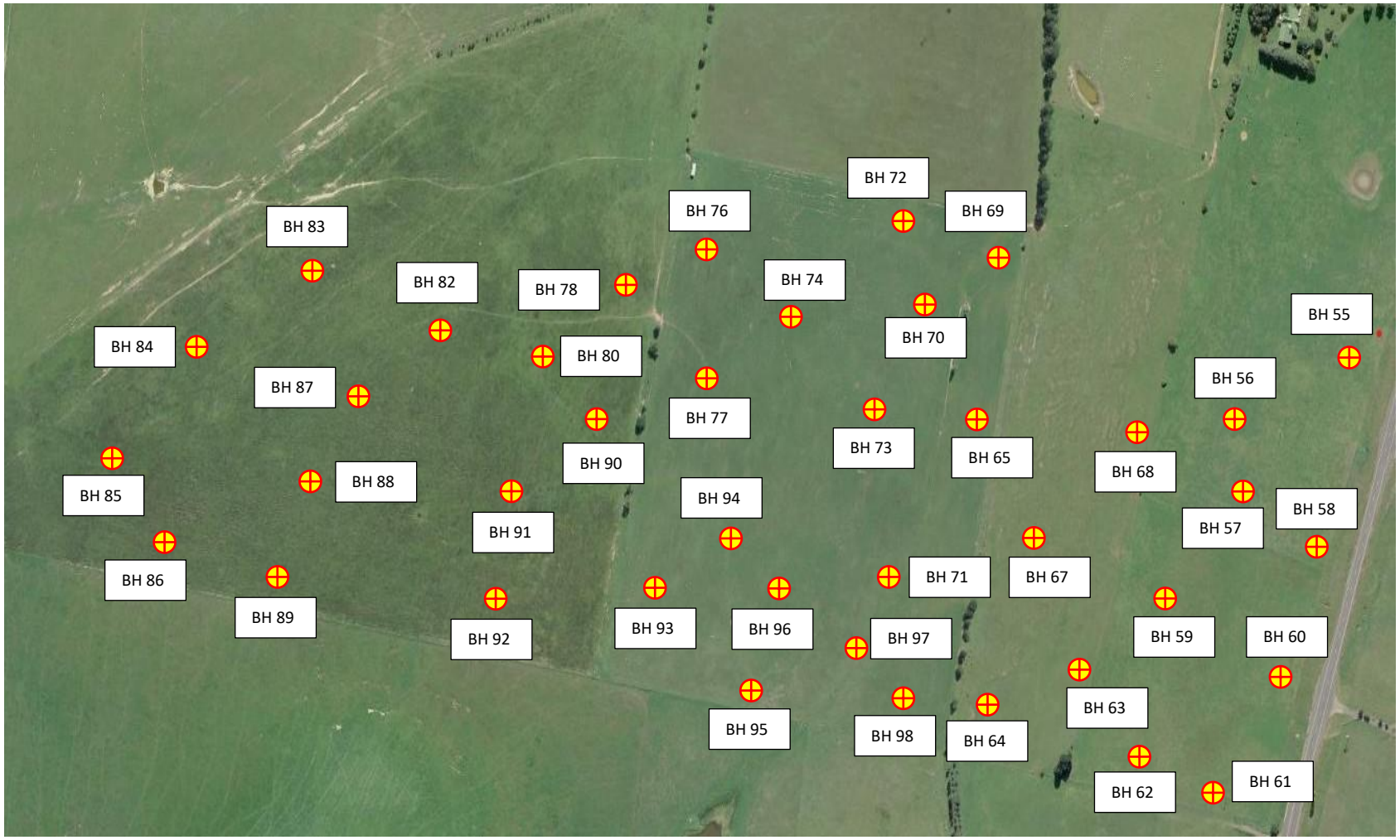

AEC 1 – Shed, silo
AEC 2 – Residential dwelling, shed
AEC 3 – Shed, silo
AEC 4 – Shed
Groundwater monitoring borehole
Borehole/Sampling location
Total Chromium concentration above 100 mg/kg

Figure 8. Total Chromium (above 100 mg/kg) and Chromium VI in areas outside AEC 1, AEC 2 and AEC 3 during detailed site investigation.




Borehole locations

Figure 9. Approximate borehole locations in the northern section of the subject area.




Borehole locations

Figure 10. Approximate borehole locations in the southern section of the subject area.

**Appendix II**

**Photographs**

Photo.1. Representative photo of the push tube drill rig used for soil sampling.

Photo.2. Representative photo of the soil profile observed at BH34.

Photo.3. Representative photo of the natural soil profile observed at BH24.

Photo.4. Representative photo of soil profile observed at BH51.

Photo.5. Representative photo of soil profile observed at BH20 using a hand auger. Hand auger was used at boreholes where drilling was not accessible via the drill rig.

Photo.6. Representative photo of the bedrock encountered during groundwater monitoring well installation.

Photo.7. Representative photo the groundwater monitoring well (GW5) after installation.

Photo.8. Representative photo of the surface water dam (WD1) observed on the southeast of AEC2.

Photo.9. Representative photo of the water sampling setup at groundwater monitoring well on site.

Photo.10. Representative photo of the soil profile observed at BH81 (0-1.0 m BGL).

Photo.11. Representative photo of the change in soil profile observed at BH71 from 0 to 1.0 m BGL.

Photo.12. Representative photo of the soil profile observed at BH45.

**Appendix III**

**Bore Logs**

K2 CONSULTING GROUP

# BORE LOGS BH11

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 7/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** DPT (direct push tube) (

**COORDINATES** 34°42.557' S 149°42.171' E
**SURFACE ELEVATION** 682m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH11(0.2m)<br>ST-01-1533-BH11-ASB | Y | | Topsoil. Silty CLAY. Red-brown. Organic. Moderately stiff. Very Moist. | |
| 0.5 | ST-01-1533-BH11(0.5m) | | | Natural. Silty CLAY. Yellow-Red mottled. Moderately stiff. Moist. | |
| 1 | ST-01-1533-BH11(1.2m) | | | Natural. Silty CLAY. Minor gravels. Slightly Stiff. Slightly moist. | |
| 1.5 | | | | Termination Depth at:1.5m BGL | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH12

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 9/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.560' S 149°42.192' E
**SURFACE ELEVATION** 682m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH12(0.2m)<br>ST-01-1533-BH12-ASB(0.2m | Y | | Topsoil. Silty CLAY. Organic. Roots. Dark brown. Moist. Moderately stiff. | |
| | | | | Fill. Gravelly. Dry. Loose. Greyish. | |
| 0.5 | ST-01-1533-BH142(0.7m)<br>ST-01-1533-BH142-ASB | | | Natural. Silty CLAY. Slightly mottled Orange-Grey. Minor Gravels. Moist. | |
| 1 | | | | Termination Depth at:1.1m BGL | |
| 1.5 | | | | | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH13

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 9/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.577' S 149°42.187' E
**SURFACE ELEVATION** 682m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH13(0.2m)<br>ST-01-1533-BH13-ASB(0.2m | Y | | Topsoil. Silty CLAY Organic. Roots. Dark brown. Moist. Slightly stiff. | |
| | | | | NATURAL. Silty CLAY. Moist. Moderately stiff. Dark brown. | |
| 0.5 | ST-01-1533-BH13(0.6m) | | | Natural. Clayey SILT. Slightly moist.Slightly loose. Slightly red-brown mottled. | |
| 1 | | | | | |
| 1.5 | | | | Termination Depth at:1.5m BGL | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH14

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 9/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.591' S 149°42.209' E
**SURFACE ELEVATION** 681m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH14(0.2m) | Y | | Topsoil. Clayey SILT. Organic. Roots. Dark brown. Moist. Moderately stiff. | |
| | ST-01-1533-BH14-ASB(0.2m | | | NATURAL. Silty CLAY. Yellow-brown mottled. Moist. Moderately stiff. | |
| 0.5 | | | | | |
| | ST-01-1533-BH14(0.8m) | | | | |
| 1 | | | | | |
| 1.5 | ST-01-1533-BH14(1.6m) | | | Natural. Clayey silt. Dark brown-orange mottled. Moist. Slightly stiff. | |
| | | | | Termination Depth at:1.6m BGL (Rock refusal) | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH15

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 7/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.575' S 149°42.164' E
**SURFACE ELEVATION** 681m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH15(0.2m) | Y | | Topsoil. Silty CLAY. Red-brown. Organic. Moderately stiff. Very Moist. | |
| | ST-01-1533-BH15-ASB(0.2m | | | Natural. Silty CLAY. Yellow-Grey mottled. Moderately stiff. Moist. | |
| 0.5 | ST-01-1533-BH15(0.5m) | | | | |
| | ST-01-1533-BH15(0.9m) | | | Natural. Clayey SILT. Gravels. Slightly Stiff. Dry. | |
| 1 | | | | Termination Depth at:1.1m BGL | |
| 1.5 | | | | | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH16

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 7/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** DPT (direct push tube) (

**COORDINATES** 34°42.591' S 149°42.154'E
**SURFACE ELEVATION** 681m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH16(0.2m)<br>ST-01-1533-BH16-ASB(0.2m | Y | | Topsoil. Silty CLAY. Dark brown. Organic. Moderately stiff. Moist. | |
| 0.5 | | | | Natural. Silty clay with gravel. Light brown. Dry. Loose. | |
| 1 | ST-01-1533-BH16(1.0m) | | | | |
| 1.5 | | | | Termination Depth at:1.3m BGL | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH17

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 9/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.603' S 149°42.200' E
**SURFACE ELEVATION** 680m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH17(0.2m) | Y | | Topsoil. Silty CLAY. Organic. Dark brown. Moist. Moderately stiff. | |
| | ST-01-1533-BH17-ASB(0.2m | | | Natural. Clayey SILT. Orange-brown-red mottled. Moist. Moderately stiff. | |
| 0.5 | ST-01-1533-B171(0.7m) | | | | |
| | | | | Termination Depth at:0.8m BGL | |
| 1 | | | | | |
| 1.5 | | | | | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH18

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 7/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** DPT (direct push tube) (

**COORDINATES** 34°42.612' S 149°42.143' E
**SURFACE ELEVATION** 681m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH18(0.2m)<br>ST-01-1533-ASB(0.2m)<br>ST-01-1533-BH18(0.4m) | Y | | Topsoil. Clayey SILT. Organic. Roots. Dark brown. Moist. Moderately stiff. | |
| 0.5 | | | | NATURAL. Silty CLAY. Red-Brown mottled. Moist. Slightly stiff. | |
| | ST-01-1533-BH18(0.9m) | | | Silty CLAY with gravels. Grey. Loose. Dry. | |
| 1 | | | | | |
| 1.5 | | | | Termination Depth at:1.5m BGL | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH19

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 7/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.624' S 149°42.191' E
**SURFACE ELEVATION** 679m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH19(0.2m) | Y | | Topsoil. Silty CLAY. Organic. Roots. Light to Dark brown. Moist. Slightly stiff. | |
| | ST-01-1533-BH19-ASB(0.2m | | | Residual. Silty CLAY. Moist. Moderately stiff. Dark brown | |
| 0.5 | ST-01-1533-BH19(0.6m) | | | Sandy SILT with gravels. Dry. Grey. Loose. | |
| 1 | | | | | |
| 1.5 | | | | | |
| 2 | ST-01-1533-BH19(2.0m) | | | | |
| 2.5 | | | | | |
| 3 | ST-01-1533-BH19(3.0m) | | | | |
| | | | | Termination Depth at:3.1m BGL | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH20

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 10/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Hand Auger

**COORDINATES** 34°42.672' S 149°42.130' E
**SURFACE ELEVATION** 680m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH20(0.2m)<br>ST-01-1533-BH20-ASB(0.2m)<br>ST-01-1533-BH20(0.5m) | Y | | Topsoil. Silty CLAY. Dark brown. Organic. Moderately stiff. Moist. | |
| 0.5 | | | | Natural. Silty Clay. Red-brown mottled. Moderately stiff. Moist. | |
| 0.7 | | | | Termination Depth at:0.7m BGL | |
| 1 | | | | | |
| 1.5 | | | | | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH21

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 7/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.674' S 149°42.156' E
**SURFACE ELEVATION** 678m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH21(0.2m)<br>ST-01-1533-ASB(0.2m) | Y | | Topsoil. Clayey SILT. Organic. Roots. Dark brown. Moist. Moderately stiff. | |
| 0.5 | ST-01-1533-BH21(0.5m) | | | NATURAL. Silty CLAY. Yellow-Brown mottled. Moist. Moderately stiff. | |
| 1 | ST-01-1533-BH21 (1.2m) | | | NATURAL. Silty CLAY with gravels, light brown, loose, dry. | |
| 1.5 | | | | Termination Depth at:1.3m BGL | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH22

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 7/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** DPT (direct push tube) (

**COORDINATES** 34°42.680' S 149°42.179' E
**SURFACE ELEVATION** 678m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH22(0.2m) | Y | | Topsoil. Clayey SILT. Organic. Roots. Dark brown. Moist. Moderately stiff. | |
| | ST-01-1533-BH21-ASB(0.2m | | | NATURAL. Silty CLAY. Yellow-Brown. Moist. Moderately stiff. | |
| 0.5 | ST-01-1533-BH22(0.6m) | | | Silty CLAY with gravels, Light brown, loose, dry | |
| 1 | ST-01-1533-BH22 (1.1m) | | | Termination Depth at:1.1m BGL | |
| 1.5 | | | | | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH23

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 10/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Hand Auger

**COORDINATES** 34°42.701' S 149°42.122' E
**SURFACE ELEVATION** 677m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH23(0.2m) | Y | | Topsoil. Silty CLAY. Dark brown. Organic. Moderately stiff. Moist. | |
| | ST-01-1533-BH23-ASB(0.2m | | | | |
| | | | | Natural. Clayey SILT. Light brown. Moderately stiff. Moist. | |
| 0.5 | ST-01-1533-BH23(0.5m) | | | | Silty clay profile becomes more yellow-grey mottled from light brown. |
| | ST-01-1533-BH23(0.8m) | | | | |
| | | | | Termination Depth at:0.8m BGL | |
| 1 | | | | | |
| 1.5 | | | | | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH24

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 9/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** DPT (direct push tube) (

**COORDINATES** 34°42.696' S 149°42.174' E
**SURFACE ELEVATION** 677m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH24(0.2m)<br>ST-01-1533-BH24-ASB(0.2m | Y | | Topsoil. Clayey SILT. Organic. Roots. Dark brown. Moist. Moderately stiff. | |
| 0.5 | ST-01-1533-BH24(0.5m) | | | NATURAL. Silty CLAY. Orange-Brown mottled. Slightly Moist. Moderately stiff. | |
| 1 | ST-01-1533-BH24 (1.3m) | | | NATURAL. Silty CLAY with gravel. Grey-Brown mottled. Loose. Dry. | |
| 1.5 | | | | Termination Depth at:1.3m BGL (Rock refusal) | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH25

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 9/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** DPT (direct push tube) (

**COORDINATES** 34°42.712' S 149°42.168' E
**SURFACE ELEVATION** 677m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH25(0.2m) | Y | | Topsoil. Clayey SILT. Organic.Dark brown. Moist. Moderately stiff. | Roots |
| | ST-01-1533-BH25-ASB(0.2m | | | NATURAL. Silty CLAY.Mottled brown. Slightly Moist. Moderately stiff. | |
| 0.5 | ST-01-1533-BH25(0.5m) | | | Natural, Silty GRAVEL, loose, dry, Red-grey-brown mottled. | |
| 1 | | | | | |
| 1.5 | | | | Termination Depth at:1.3m BGL | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH26

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 10/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Hand Auger

**COORDINATES** 34°42.722' S 149°42.119' E
**SURFACE ELEVATION** 680m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH26(surface sample)<br>ST-01-1533-BH26(0.2m)<br>ST-01-1533-BH26-ASB(0.2m<br>ST-01-1533-BH26(0.5m) | Y | | Topsoil. Silty CLAY. Dark brown. Organic. Moderately stiff. Moist. | Surface Sample- reddish brown. |
| 0.5 | | | | Natural. Silty CLAY with minor gravels. Light brown. Moderately stiff. Moist. | |
| | | | | Termination Depth at:0.7m BGL | |
| 1 | | | | | |
| 1.5 | | | | | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH27

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 10/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Hand Auger

**COORDINATES** 34°42.726' S 149°42.136' E
**SURFACE ELEVATION** 678m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH27(0.2m)<br>ST-01-1533-BH27-ASB(0.2m | Y | | Topsoil. Silty CLAY. Dark brown. Organic. Moderately stiff. Moist. | |
| 0.5 | ST-01-1533-BH27(0.5m) | | | Natural. Silty CLAY with minor gravels. Light brown. Moderately stiff. Moist. | |
| 0.7 | | | | Termination Depth at:0.7m BGL | |
| 1 | | | | | |
| 1.5 | | | | | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH28

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 7/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.726' S 149°42.163' E
**SURFACE ELEVATION** 677m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH28(0.2m)<br>ST-01-1533-BH28-ASB(0.2m) | Y | | Topsoil. Clayey SILT. Organic. Roots. Dark brown. Moist. Moderately stiff. | |
| | ST-01-1533-BH28(0.5m) | | | NATURAL. Silty CLAY.Reddish brown mottled. Slightly Moist. Slightly stiff. | |
| 0.5 | | | | Natural. Silty CLAY with gravel. Grey. Loose. Dry. | |
| | ST-01-1533-BH28(0.9m) | | | | |
| 1 | | | | | |
| | | | | Termination Depth at:1.2m BGL | |
| 1.5 | | | | | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH29

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 10/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Hand Auger

**COORDINATES** 34°42.735' S 149°42.114' E
**SURFACE ELEVATION** 679m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH29(0.2m)<br>ST-01-1533-BH29-ASB(0.2m<br>ST-01-1533-BH29(0.5m) | Y | | Topsoil. Silty CLAY. Dark brown. Organic. Moderately stiff. Moist. | |
| 0.5 | | | | Natural. Silty CLAY. Red-brown mottled. Moderately stiff. Moist. | |
| | | | | Termination Depth at:0.7m BGL | |
| 1 | | | | | |
| 1.5 | | | | | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH30

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 9/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.741' S 149°42.138' E
**SURFACE ELEVATION** 678m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH30(0.2m)<br>ST-01-1533-BH30(0.2m)<br>ST-01-1533-BH30-ASB(0.2m<br>ST-01-1533-BH30(0.5m) | Y | | Topsoil. Silty CLAY. Dark brown. Organic. Very Moist. Moderately stiff. | Roots |
| 0.5 | | | | Natural.Silty CLAY. Orange-brown mottled. Moderately stiff. Moist. | |
| 1 | | | | Termination Depth at:0.9m BGL | |
| 1.5 | | | | | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH31

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 9/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.744' S 149°42.161' S
**SURFACE ELEVATION** 677m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH31(0.2m) | Y | | Topsoil. Silty CLAY. Dark brown. Organic. Very Moist. Moderately stiff. | Roots |
| | ST-01-1533-BH31-ASB(0.2m | | | Natural.Silty CLAY. Orange-brown mottled. Gravely. Slightly stiff. Dry. | |
| 0.5 | ST-01-1533-BH31(0.5m) | | | | |
| 1 | | | | Termination Depth at:0.95m BGL | |
| 1.5 | | | | | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH32

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 8/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** DPT (direct push tube) (

**COORDINATES** 34°42.655' S 149°42.070' S
**SURFACE ELEVATION** 682m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH32(0.2m)<br>ST-01-1533-BH32-ASB(0.2m<br>ST-01-1533-BH32(0.5m) | Y | | Topsoil. Silty CLAY. Dark brown. Organic. Moderately stiff. Moist. | |
| 0.5 | | | | Natural. Silty CLAY. Yellow-orange mottled. Slightly stiff. Moist. | |
| 1 | | | | | |
| 1.5 | | | | Termination Depth at:1.5m BGL | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH33

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 8/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.676' S 149°42.064' S
**SURFACE ELEVATION** 682m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH33(0.2m)<br>ST-01-1533-BH33-ASB(0.2m<br>ST-01-1533-BH33(0.5m) | Y | | Topsoil. Silty CLAY. Dark brown. Organic. Moderately stiff. Moist. | |
| 0.5 | | | | Natural. Silty CLAY. Yellow-orange mottled. Slightly stiff. Moist. | |
| 1 | | | | | |
| 1.5 | | | | Termination Depth at:1.5m BGL | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH34

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 8/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.697' S 149°42.058' E
**SURFACE ELEVATION** 681m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH34(0.2m)<br>ST-01-1533-BH34-ASB(0.2m | Y | | Topsoil. Silty CLAY. Dark brown. Organic. Moderately stiff. Moist. | |
| 0.5 | ST-01-1533-BH34(0.8m) | | | Natural. Silty CLAY. Yellow-orange mottled. Slightly stiff. Moist. | |
| 1 | | | | | |
| 1.5 | | | | Termination Depth at:1.5m BGL | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH35

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 7/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.652' S 149°42.092' E
**SURFACE ELEVATION** 682m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH35(0.2m)<br>ST-01-1533-BH35-ASB(0.2m | Y | | Topsoil. Silty CLAY. Dark brown. Organic. Moderately stiff. Moist. | |
| 0.5 | | | | Natural. Silty CLAY. Orange-grey-yellow mottled. Slightly sitff. Moist. | |
| | ST-01-1533-BH35(0.8m) | | | Natural. Silty CLAY. Light Brown. Slightly stiff. Moist. | |
| 1 | | | | Termination Depth at:1m BGL | |
| 1.5 | | | | | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH36

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 7/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.652' S 149°42.092' E
**SURFACE ELEVATION** 682m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH36(0.2m)<br>ST-01-1533-BH36-ASB(02m) | Y | | Topsoil. Silty CLAY. Dark brown. Organic. Moderately stiff. Moist. | |
| 0.5 | ST-01-1533-BH36(0.6m) | | | Fill. Silty Gravel. Compacted road base material. Brown-grey. Loose. Dry. | |
| 1 | ST-01-1533-BH36(0.8m) | | | Natural. Silty CLAY. Orange--grey mottled. Moderately moist. Slightly stiff. | |
| 1.5 | | | | Termination Depth at:1m BGL | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH37

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 9/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.684' S 149°42.101' E
**SURFACE ELEVATION** 682m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH37(0.2m)<br>ST-01-1533-BH37-ASB(0.2m | Y | | Topsoil. Silty CLAY. Dark brown. Organic. Very Moist. Very stiff. | |
| 0.5 | ST-01-1533-BH37(0.6m)<br>ST-01-1533-BH37(0.8m) | | | Natural. Silty CLAY. Yellow-red mottled. Slightly moist. Slightly loose. | |
| 1 | | | | | |
| 1.5 | | | | Termination Depth at:1.5m BGL | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH38

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 9/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.701' S 149°42.079' E
**SURFACE ELEVATION** 681m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH38(0.2m)<br>ST-01-1533-BH38-ASB(0.2m | Y | | Topsoil. Silty CLAY. Organic. Dark brown. Gravely. Moist. Moderately stiff. | |
| 0.5 | ST-01-1533-BH38(0.8m) | | | Natural. Silty CLAY. Yellow-grey mottled. Some gravels. Moderately stiff. Moist. | |
| 1 | | | | | |
| 1.5 | | | | Termination Depth at:1.5m BGL | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH39

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 9/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.707' S 149°42.097' E
**SURFACE ELEVATION** 681m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH39(0.2m)<br>ST-01-1533-BH39-ASB(0.2m | Y | | Topsoil. Silty CLAY. Organic. Dark brown. Gravely. Moist. Moderately stiff. | |
| 0.5 | ST-01-1533-BH39(0.75m) | | | Natural. Silty CLAY. Yellow-grey mottled. Some gravels. Moderately stiff. Moist. | |
| 1 | | | | | |
| 1.5 | | | | Termination Depth at:1.5m BGL | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH40

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 7/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.598' S 149°42.275' E
**SURFACE ELEVATION** 680m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH40(0.2m)<br>ST-01-1533-BH40-ASB(0.2m) | Y | | Topsoil. Silty CLAY. Organic. Roots. Light to Dark brown. Moist. Slightly stiff. | |
| 0.5 | ST-01-1533-BH40(0.5m) | | | NATURAL. Silty CLAY. Moist. Slightly stiff. Red-brown mottled. | |
| 1 | | | | Clayey SILT. Green-Brown mottled. Minor gravels. Slightly moist. | |
| 1.5 | ST-01-1533-BH40(1.4m) | | | Termination Depth at:1.5m BGL | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH41

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 7/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.645' S 149°42.209' E
**SURFACE ELEVATION** 677m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH41 (0.2m)<br>ST-01-1533-BH41-ASB (0.2m) | Y | | Topsoil. Silty CLAY. Organic. Roots. Dark brown. Very moist. Moderately stiff. Moist. | |
| 0.5 | ST-01-1533-BH41 (0.5m) | | | NATURAL. Silty CLAY.Yellowish brown. Moist. Moderately stiff. | |
| 1 | | | | Clayey SILT with gravels, Grey, Loose dry | |
| 1.5 | ST-01-1533-BH41 (1.4m) | | | Termination Depth at:1.5m BGL | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH42

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 7/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.701' S 149°42.236' E
**SURFACE ELEVATION** 676m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH42(0.2m)<br>ST-01-1533-BH42-ASB(0.2m) | Y | | Topsoil. Clayey SILT. Organic. Roots. Dark brown. Moist. Moderately stiff. | |
| | | | | NATURAL. Silty CLAY.Yellowish brown. Moist. Moderately stiff. | |
| 0.5 | ST-01-1533-BH42(0.5m) | | | | |
| | | | | Siltstone. Light grey. Loose. Dry. | |
| 1 | ST-01-1533-BH42 (1.2m) | | | | |
| | | | | Termination Depth at:1.2m BGL | |
| 1.5 | | | | | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH43

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 9/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.728' S 149°42.195' E
**SURFACE ELEVATION** 676m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH43(0.2m)<br>ST-01-1533-BH43-ASB(0.2m) | Y | | Topsoil. Silty CLAY. Dark brown. Organic. Very Moist. Moderately stiff. | Roots |
| 0.5 | ST-01-1533-BH43(0.5m) | | | Natural.Silty CLAY. Orange-yellow mottled. Moderately stiff. Moist. | |
| 1 | ST-01-1533-BH43(1.1m) | | | Natural. Clayey SILT. Grey-brown mottled. Gravels. Dry. | |
| 1.5 | | | | Termination Depth at:1.5m BGL | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH44

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 9/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.767' S 149°42.204' E
**SURFACE ELEVATION** 676m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH44(0.2m) | Y | | Topsoil. Silty CLAY. Dark brown. Organic. Moderately stiff. Very Moist. | Roots |
| | ST-01-1533-BH44-ASB(0.2m | | | | |
| 0.5 | ST-01-1533-BH44(0.6m) | | | Natural. Silty CLAY. Orange-yellow mottled. Moderately stiff. Moist. | |
| 1 | | | | | |
| 1.5 | | | | Termination Depth at:1.5m BGL | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH45

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 9/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.801' S 149°42.166' E
**SURFACE ELEVATION** 675m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| | ST-01-1533-BH45(0.2m)<br>ST-01-1533-BH45-ASB(0.2m) | Y | | Topsoil. Silty CLAY. Dark brown. Organic. Moderately stiff. Very Moist. | Roots |
| 0.5 | ST-01-1533-BH45(0.7m) | | | Natural.Silty CLAY. Yellow-brown mottled. Moderately stiff. Moist. | |
| 1 | ST-01-1533-BH45(1.1m) | | | Natural. Clayey SILT. Grey. Slightly stiff. Dry. | |
| 1.5 | | | | Termination Depth at:1.35m BGL | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH46

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 9/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.770' S 149°42.112' E
**SURFACE ELEVATION** 677m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| | ST-01-1533-BH46(0.2m)<br>ST-01-1533-BH46(0.2m) | Y | | Topsoil. Silty CLAY. Dark brown. Organic. Very Moist. Moderately stiff. | Roots |
| 0.5 | ST-01-1533-BH46(0.5m) | | | Natural.Silty CLAY. Red-brown mottled. Moderately stiff. Moist. Some gravels. | |
| 1 | | | | Termination Depth at:0.8m BGL | |
| 1.5 | | | | | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH47

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 8/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.750' S 149°42.069' E
**SURFACE ELEVATION** 679m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH47(0.2m) | Y | | Topsoil. Silty CLAY. Dark brown. Organic. Moderately stiff. Moist. | Roots |
| | ST-01-1533-BH47-ASB(0.2m | | | Natural. Clayey SILT. Grey-yellow-orange mottled. Moderately stiff. Moist. | |
| 0.5 | ST-01-1533-BH47(0.6m) | | | | |
| 1 | | | | Termination Depth at:0.9m BGL (Rock refusal) | |
| 1.5 | | | | | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH48

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 8/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.740' S 149°42.029' E
**SURFACE ELEVATION** 679m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH48(0.2m)<br>ST-01-1533-BH48-ASB(0.2m) | Y | | Topsoil. Silty CLAY. Dark brown. Organic. Moderately stiff. Moist. | Roots |
| 0.5 | ST-01-1533-BH48(0.6m) | | | Natural. Clayey SILT. Yellow-red mottled. Compact. Moist. | |
| 1 | | | | Termination Depth at:0.7m BGL | |
| 1.5 | | | | | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH49

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 8/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** DPT (direct push tube) (

**COORDINATES** 34°42.672' S 149°42.012' E
**SURFACE ELEVATION** 269m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0.5 | ST-01-1533-BH49(0.2m)<br>ST-01-1533-BH49-ASB(0.2m<br>ST-01-1533-BH49(0.5m) | Y | | Topsoil. Silty CLAY. Dark brown. Organic. Moderately stiff. Moist.<br>Natural. Silty CLAY. Grey-yellow-orange mottled. Slightly stiff. Moist. | |
| 1<br>1.5<br>2<br>2.5<br>3<br>3.5<br>4<br>4.5<br>5<br>5.5 | | | | Termination Depth at:0.8m BGL (Rock refusal) | |

K2 CONSULTING GROUP

# BORE LOGS BH50

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 8/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** DPT (direct push tube) (

**COORDINATES** 34°42.720' S 149°42.980' E
**SURFACE ELEVATION** 680m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH50(0.2m)<br>ST-01-1533-BH50-ASB(0.2m | Y | | Topsoil. Silty CLAY. Dark brown. Organic. Moderately stiff. Moist. | Roots |
| 0.5 | ST-01-1533-BH50(0.8) | | | Natural. Silty CLAY. Brown-orange-red mottled. Moderately stiff. Slightly Moist. | |
| 1 | | | | | |
| 1.5 | | | | Termination Depth at:1.5m BGL | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH51

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 8/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.778' S 149°41.960' E
**SURFACE ELEVATION** 677m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH51(0.2m)<br>ST-01-1533-BH51-ASB(0.2m<br>ST-01-1533-BH51(0.6m) | Y | | Topsoil. Silty CLAY. Minor Gravels. Dark brown. Organic. Moderately stiff. Moist. | |
| 0.5 | | | | Natural. Clayey SILT. Orange-red mottled. Slightly Stiff. Slightly Moist. | |
| 1 | | | | Termination Depth at:0.8m BGL (Rock refusal) | |
| 1.5 | | | | | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH52

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 8/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.751' S 149°42.920' E
**SURFACE ELEVATION** 679m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH52(0.2m)<br>ST-01-1533-BH52-ASB(0.2m | Y | | Topsoil. Silty CLAY. Minor Gravels. Dark brown. Organic. Moderately stiff. Moist. | |
| 0.5 | ST-01-1533-BH52(0.7m) | | | Natural. Silty-CLAY. Orange-red mottled. Slightly Stiff. Slightly Moist. | |
| 1 | | | | Natural. Clayey SILT with gravels. Red-orange mottled.Slightly stiff. Moist. | |
| 1.5 | | | | Termination Depth at:1.5m BGL | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH53

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 8/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** DPT (direct push tube) (

**COORDINATES** 34°42.778' S 149°41.876' E
**SURFACE ELEVATION** 679m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH53(0.2m)<br>ST-01-1533-BH53-ASB(0.2m | Y | | Topsoil. Silty CLAY. Minor Gravels. Dark brown. Organic. Moderately stiff. Moist. | |
| 0.5 | | | | Natural. Clayey SILT. Brown-grey mottled. Slightly Stiff. Moist. | |
| | ST-01-1533-BH53(0.7m) | | | Natural. Clayey SILT. Grey-orange mottled.Slightly stiff. Moist. | |
| 1 | | | | | |
| 1.5 | | | | Termination Depth at:1.5m BGL | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH54

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 9/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.820' S 149°42.102' E
**SURFACE ELEVATION** 675m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH54(0.2m)<br>ST-01-1533-BH54-ASB(0.2m) | Y | | Topsoil. Silty CLAY. Dark brown. Organic. Very Moist. Moderately stiff. | |
| 0.5 | ST-01-1533-BH54(0.5m) | | | Natural.Silty CLAY. Red-brown mottled. Moderately stiff. Moist. Some gravels. | |
| 1 | ST-01-1533-BH54(0.9m) | | | Natural. Clayey SILT. Loose. Dry. Grey-brown. | |
| 1.5 | | | | Termination Depth at:1.18m BGL | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH55

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 9/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.843' S 149°42.193' E
**SURFACE ELEVATION** 674m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH55(0.2m)<br>ST-01-1533-BH55-ASB(0.2m) | Y | | Topsoil. Silty CLAY. Dark brown. Organic. Moist. Moderately stiff. | roots |
| 0.5 | ST-01-1533-BH55(0.6m) | | | Natural.Clayey SILT. Gravely. Brown-grey mottled. Slightly stiff. | |
| 1 | | | | Termination Depth at:1.08m BGL (rock refusal) | |
| 1.5 | | | | | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH56

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 9/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.849' S 149°42.120' E
**SURFACE ELEVATION** 673m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH56(0.2m)<br>ST-01-1533-BH56-ASB(0.2m) | Y | | Topsoil. Silty CLAY. Dark brown. Organic. Very Moist. Moderately stiff. | |
| 0.5 | | | | Natural.Silty CLAY. Brown. Moderately stiff. Moist. | |
| 1 | ST-01-1533-BH56(0.9m) | | | | |
| 1.5 | | | | Termination Depth at:1.5m BGL | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH57

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 9/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.879' S 149°42.129' E
**SURFACE ELEVATION** 672m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH57(0.2m)<br>ST-01-1533-BH57-ASB(0.2m) | Y | | Topsoil. Silty CLAY. Dark brown. Organic. Very Moist. Moderately stiff. | |
| 0.5 | ST-01-1533-BH57(0.5m) | | | Natural.Clayey SILT. Brown-grey mottled. Loose. Dry. | |
| | | | | Termination Depth at:0.66m | |
| 1 | | | | | |
| 1.5 | | | | | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH58

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 9/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.899' S 149°42.166' E
**SURFACE ELEVATION** 672m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH58(0.2m)<br>ST-01-1533-BH58-ASB(0.2m) | Y | | Topsoil. Silty CLAY. Dark brown. Organic. Moist. Moderately stiff. | roots |
| | | | | Natural.Clayey SILT. Brown. Slightly stiff. Moist. | |
| 0.5 | ST-01-1533-BH58(0.5m) | | | | |
| | | | | Clayey SILT with gravels. Grey-brown mottled.Slightly stiff. Dry. | |
| 1 | ST-01-1533-BH58(1.1m) | | | | |
| 1.5 | | | | Termination Depth at:1.5m BGL | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH59

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 9/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.918' S 149°42.059' E
**SURFACE ELEVATION** 670m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH59(0.2m)<br>ST-01-1533-BH59-ASB(0.2m) | Y | | Topsoil. Silty CLAY. Dark brown. Organic. Moist. Moderately stiff. | |
| 0.5 | ST-01-1533-BH59(0.6m) | | | Natural. Silty CLAY. Red-yellow mottled. Slightly stiff. Dry. Gravely. | |
| 1 | | | | | |
| 1.5 | | | | Termination Depth at:1.22m BGL | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH60

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 9/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.964' S 149°42.139' E
**SURFACE ELEVATION** 670m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH60(0.2m)<br>ST-01-1533-BH60-ASB(0.2m) | Y | | Topsoil. Silty CLAY. Dark brown. Organic. Very Moist. Very stiff. | |
| 0.5 | ST-01-1533-BH60(0.6m) | | | Natural. Silty CLAY. Yello-grey mottled with dark grey patches. Gravely. Slightly moist. Slightly loose. | |
| 1 | | | | | |
| 1.5 | | | | Termination Depth at:1.5m BGL | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH61

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 9/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°43.014' S 149°42.094' E
**SURFACE ELEVATION** 668m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH61(0.2m)<br>ST-01-1533-BH61-ASB(0.2m) | Y | | Topsoil. Silty CLAY. Dark brown. Organic. Very Moist. Very stiff. | |
| 0.5 | ST-01-1533-BH61(0.5m) | | | Natural. Silty CLAY. Dark brown. Moist. | |
| 1 | | | | Natural. Clayey SILT. Grey-brown-yellow mottled. Slightly moist. Slightly loose. | |
| 1.5 | | | | Termination Depth at:1.5m BGL | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH62

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 9/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.969' S 149°42.043' E
**SURFACE ELEVATION** 669m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH62(0.2m)<br>ST-01-1533-BH62-ASB(0.2m | Y | | Topsoil. Silty CLAY. Dark brown. Organic. Moist. Moderately stiff. | |
| 0.5 | ST-01-1533-BH62(0.7m) | | | Silty CLAY. Natural. Yellow-brown mottled.Slightly stiff. Moist. | |
| 1 | | | | | |
| 1.5 | | | | Termination Depth at:1.5m BGL | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH63

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 8/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.927' S 149°42.012' E
**SURFACE ELEVATION** 672m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH66(0.2m)<br>ST-01-1533-BH66-ASB(0.2m | Y | | Topsoil. Silty CLAY. Dark brown. Moist. Slightly stiff. Moist. | |
| 0.5 | ST-01-1533-BH66(0.8m) | | | Natural. Silty CLAY. Gravelly. Red-orange mottled. Moderately Stiff. Moist. | |
| 1 | | | | | |
| 1.5 | | | | Termination Depth at:1.5m BGL | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH64

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 8/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.967' S 149°42.957' E
**SURFACE ELEVATION** 671m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH64(0.2m)<br>ST-01-1533-BH64-ASB(0.2m | Y | | Topsoil. Silty CLAY. Minor Gravels. Dark brown. Organic. Moderately stiff. Moist. | |
| 0.5 | ST-01-1533-BH64(0.5m) | | | Natural. Silty CLAY. Red-yellow mottled.Slightly Stiff. Slightly Moist. | |
| 1 | ST-01-1533-BH64(0.9m) | | | Natural. Clayey SILT with gravels. Orange-yellow mottled. Slightly stiff. Dry. | |
| 1.5 | | | | Termination Depth at:1.3m BGL | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH65

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 8/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.894' S 149°41.941' E
**SURFACE ELEVATION** 675m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH65(0.2m)<br>ST-01-1533-BH65-ASB(0.2m)<br>ST-01-1533-BH65(0.4m) | Y | | Topsoil. Silty CLAY. Dark brown. Organic. Moderately stiff. Moist. | Roots |
| 0.5 | | | | Natural. Silty CLAY. Yellow-grey mottled. Moderately stiff. Moist. | |
| 1 | ST-01-1533-BH65(0.9m) | | | | |
| 1.5 | | | | Termination Depth at:1.5m BGL | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH66

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 8/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.805' S 149°42.015'E
**SURFACE ELEVATION** 678m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH66(0.2m)<br>ST-01-1533-BH66-ASB(0.2m | Y | | Topsoil. Silty CLAY. Minor Gravels. Dark brown. Organic. Moderately stiff. Moist. | |
| 0.5 | ST-01-1533-BH66(0.8m) | | | Natural. Silty CLAY. Red-yellow mottled. Moderately Stiff. Moist. | |
| 1 | | | | Natural. Clayey SILT. Grey-yellow mottled. Slightly stiff. Dry. | |
| 1.5 | | | | Termination Depth at:1.3m BGL (Rock refusal) | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH67

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 9/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.872' S 149°42.021 E
**SURFACE ELEVATION** 675m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH67(0.2m) | Y | | Topsoil. Silty CLAY. Minor gravels. Organic. Dark brown. Moist. Moderately stiff. | |
| | ST-01-1533-BH67-ASB (0.2m) | | | Natural. Silty CLAY. Grey-yellow mottled. Moist. Moderately stiff. | |
| 0.5 | ST-01-1533-B671(0.6m) | | | | |
| | | | | Silty Clay. Gravely. Slightly moist. Slightly loose. | |
| 1 | ST-01-1533-BH67(1m) | | | | |
| | | | | Termination Depth at:1.3m BGL | |
| 1.5 | | | | | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH68

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 8/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.840' S 149°42.067' E
**SURFACE ELEVATION** 675m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH68(0.2m)<br>ST-01-1533-BH68-ASB(0.2m | Y | | Topsoil. Silty CLAY. Minor Gravels. Dark brown. Organic. Moderately stiff. Moist. | |
| 0.5 | ST-01-1533-BH68(0.6m) | | | Natural. Silty CLAY with gravels. Dark brown. Loose. Dry. | |
| 1 | | | | | |
| 1.5 | | | | Termination Depth at:1.2m BGL | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH69

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 8/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.832' S 149°41.944' E
**SURFACE ELEVATION** 677m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH69(0.2m)<br>ST-01-1533-BH69-ASB<br>ST-01-1533-BH69(0.4) | Y | | Topsoil. Silty CLAY. Dark brown. Organic. Moderately stiff. Moist. | Roots |
| 0.5 | | | | Natural. Silty CLAY. Brown-yellow mottled. Moderately stiff. Moist. | |
| 1 | | | | Clayey SILT with gravels. Yellow-grey mottled. Loose. Dry. | |
| 1.5 | | | | Termination Depth at:1.5m BGL | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH70

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 8/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** DPT (direct push tube) (

**COORDINATES** 34°42.849' S 149°41.913 E
**SURFACE ELEVATION** 677m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH70(0.2m)<br>ST-01-1533-BH70-ASB(0.2m | Y | | Topsoil. Silty CLAY. Dark brown. Organic. Moderately stiff. Moist. | |
| 0.5 | ST-01-1533-BH70(0.9m) | | | Natural.Silty CLAY. Red-yellow-grey mottled.Slightly stiff. Slightly moist. | |
| 1 | | | | | |
| 1.5 | | | | Termination Depth at:1.5m BGL | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH71

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 8/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** DPT (direct push tube) (

**COORDINATES** 34°42.905' S 149°41.903' E
**SURFACE ELEVATION** 673m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH71(0.2m) | Y | | Topsoil. Silty CLAY. Dark brown. Organic. Moderately stiff. Very Moist. | |
| | ST-01-1533-BH71-ASB(0.2m | | | Natural. Silty CLAY. Residual layer. Dark to light brown. Moderately stiff. Moist. | |
| 0.5 | | | | Natural. Silty CLAY. Red-yellow mottled. Moderately stiff. Moist. | |
| | ST-01-1533-BH71(0.9) | | | | |
| 1 | | | | | |
| 1.5 | | | | Termination Depth at:1.5m BGL | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH72

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 8/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** DPT (direct push tube) (

**COORDINATES** 34°42.803' S 149°41.899' E
**SURFACE ELEVATION** 677m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH72(0.2m)<br>ST-01-1533-BH72-ASB(0.2m | Y | | Topsoil. Silty CLAY. Dark brown. Organic. Moderately stiff. Moist. | |
| 0.5 | ST-01-1533-BH72(0.8m) | | | Natural.Silty CLAY. Red-yellow-grey mottled.Slightly stiff. Slightly moist. | |
| 1 | | | | | |
| 1.5 | | | | Termination Depth at:1.5m BGL | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH73

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 8/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.872' S 149°41.877' E
**SURFACE ELEVATION** 675m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH73(0.2m)<br>ST-01-1533-BH73-ASB(0.2m) | Y | | Topsoil. Silty CLAY. Dark brown. Organic. Moderately stiff. Moist. | Roots |
| | | | | Natural. Silty CLAY. Light brown. Moderately stiff. Moist | |
| 0.5 | | | | Natural. Clayey silt. Red-yellow mottled.Moderately stiff. Moist. | |
| | ST-01-1533-BH73(0.9m) | | | | |
| 1 | | | | | |
| 1.5 | | | | Termination Depth at:1.5m BGL | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH74

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 8/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.820' S 149°41.852' E
**SURFACE ELEVATION** 678m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH74(0.2m) | Y | | Topsoil. Silty CLAY. Dark brown. Organic. Moderately stiff. Moist. | |
| | ST-01-1533-BH74-ASB(0.2m | | | Natural.Silty CLAY. Red-brown mottled.Moderately stiff. Moist. | |
| 0.5 | ST-01-1533-BH74(0.7m) | | | | |
| | | | | Natural. Clayey SILT. Grey-yellow mottled.Slightly stiff. Dry. | |
| 1 | ST-01-1533-BH74(1.1m) | | | | |
| | | | | Termination Depth at:1.27m BGL | |
| 1.5 | | | | | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH75

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 8/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.754' S 149°41.813' E
**SURFACE ELEVATION** 680m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH75(0.2m) | Y | | Topsoil. Silty CLAY. Minor Gravels. Dark brown. Organic. Moderately stiff. Moist. | |
| | ST-01-1533-BH75-ASB(0.2m | | | Natural. Silty CLAY. Brown-yellow. Stiff. Moist. | |
| 0.5 | ST-01-1533-BH75(0.7m) | | | | |
| 1 | ST-01-1533-BH75(1.0m) | | | Natural. Silty CLAY. Grey-orange-yellow mottled. Moderately stiff. Slightly Moist. | |
| 1.5 | | | | Termination Depth at:1.5m BGL | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH76

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 8/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.787' S 149°41.781' E
**SURFACE ELEVATION** 678m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH76(0.2m)<br>ST-01-1533-BH76-ASB(0.2m) | Y | | Topsoil. Silty CLAY. Dark brown. Organic. Moderately stiff. Moist. | |
| 0.5 | ST-01-1533-BH76(0.7m) | | | Natural.Clayey SILT. Red-yellow mottled.Moderately stiff. Moist. | |
| 1 | ST-01-1533-BH76(1.1m) | | | Natural. Clayey SILT.Grey-red mottled.Slightly stiff. Dry. | |
| 1.5 | | | | Termination Depth at:1.5m BGL | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH77

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 9/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.863' S 149°41.825' E
**SURFACE ELEVATIONU** 674m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH77(0.2m)<br>ST-01-1533-BH77-AB(0.2m) | Y | | Topsoil. Silty CLAY. Dark brown. Organic. Moderately stiff. Moist. | Roots |
| 0.5 | ST-01-1533-BH77(0.7m) | | | Natural.Clayey SILT. Red-brown mottled. Slightly stiff. Dry. | |
| 1 | | | | | |
| 1.5 | | | | Termination Depth at:1.5m BGL | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH78

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 9/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.803' S 149°41.745' E
**SURFACE ELEVATION** 677m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH78(0.2m)<br>ST-01-1533-BH78-ASB(0.2m) | Y | | Topsoil. Silty CLAY. Organic. Dark to light brown. Moist. Moderately stiff. | |
| 0.5 | ST-01-1533-BH78(0.8m) | | | Natural. Silty CLAY. Yellow-red mottled. Moderately stiff. Moist. | |
| 1 | | | | | |
| 1.5 | | | | Termination Depth at:1.5m BGL | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH79

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 9/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.766' S 149°41.734' E
**SURFACE ELEVATION** 677m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH79(0.2m)<br>ST-01-1533-BH78-ASB(0.2m) | Y | | Topsoil. Silty CLAY. Organic. Dark brown. Gravely. Moist. Moderately stiff. | |
| | ST-01-1533-BH79(0.4m) | | | Natural. Red-brown-yellow mottled. Silty CLAY. Moderately stiff. Moist. | |
| 0.5 | | | | Natural. Silty CLAY. Red-brown mottled. Gravels. Slightly loose. Dry. | |
| 1 | ST-01-1533-BH79(1.1m) | | | | |
| 1.5 | | | | Termination Depth at:1.5m BGL | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH80

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 9/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.847' S 149°41.718' E
**SURFACE ELEVATION** 675m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH80(0.2m)<br>ST-01-1533-BH80-ASB(0.2m) | Y | | Topsoil. Clayey SILT. Organic. Dark to light brown. Moist. Moderately stiff. Some Gravels. | |
| 0.5 | ST-01-1533-BH80(0.6m) | | | Natural. Silty CLAY. Yellow-red-grey mottled. Moderately stiff. Moist. | |
| 1 | | | | | |
| 1.5 | | | | Termination Depth at:1.5m BGL | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH81

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 9/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.755' S 149°41.683' E
**SURFACE ELEVATION** 678m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH81(0.2m)<br>ST-01-1533-BH81-ASB(0.2m) | Y | | Topsoil. Silty CLAY. Organic. Dark brown. Gravely. Moist. Moderately stiff. | |
| 0.5 | ST-01-1533-BH83(0.8m) | | | Natural. Orange-yellow mottled. Silty CLAY. Moderately stiff. Moist. | |
| 1 | | | | | |
| 1.5 | | | | Termination Depth at:1.5m BGL | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH82

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 9/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct push Tube

**COORDINATES** 34°42.834' S 149°41.690' E
**SURFACE ELEVATION** 675m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH82(0.2m)<br>ST-01-1533-BH82-ASB(0.2m) | Y | | Topsoil. Silty CLAY. Organic. Dark to light brown. Moist. Moderately stiff. | |
| 0.5 | ST-01-1533-BH82(0.7m) | | | Natural. Silty CLAY. Yellow-grey mottled. Moderately stiff. Moist. | |
| 1 | ST-01-1533-BH82(1.2m) | | | Natural. Silty CLAY. Grey-brown mottled. Loose. Dry. | |
| 1.5 | | | | Termination Depth at:1.5m BGL | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH83

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 9/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.806' S 149°41.641' E
**SURFACE ELEVATION** 676m AHD
**LOGGED BY** Shiladitya Mazumdar
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH83(0.2m)<br>ST-01-1533-BH83-ASB(0.2m) | Y | | Topsoil. Silty CLAY. Organic. Dark brown. Gravely. Moist. Moderately stiff. | |
| 0.5 | ST-01-1533-BH83(0.5m) | | | Natural. Orange-yellow mottled. Silty CLAY. Moderately stiff. Moist. | |
| 1 | | | | | |
| 1.5 | | | | Termination Depth at:1.5m BGL | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH84

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 9/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.844' S 149°41.581' E
**SURFACE ELEVATION** 269m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH84(0.1m)<br>ST-01-1533-BH84-ASB(0.2m) | Y | | Topsoil. Silty CLAY. Organic. Dark brown. Gravely. Moist. Moderately stiff. | |
| 0.5 | ST-01-1533-BH84(0.7m) | | | Natural. Silty CLAY. Red-brown mottled. Slightly stiff. Moist. | |
| 1 | | | | | |
| 1.13 | | | | Termination Depth at:1.13m BGL | |
| 1.5 | | | | | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH85

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 9/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.883' S 149°41.541' E
**SURFACE ELEVATION** 676m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH85(0.2m)<br>ST-01-1533-BH85-ASB(0.2m) | Y | | Topsoil. Silty CLAY. Organic. Dark brown. Gravely. Moist. Moderately stiff. | |
| | | | | Natural. Silty CLAY. Red-brown mottled. Slightly stiff. Moist. | |
| 0.5 | ST-01-1533-BH85(0.5m) | | | | |
| | | | | Natural. Clayey SILT. Grey-Brown mottled. Loose. Dry. | |
| 1 | ST-01-1533-BH85(1.1m) | | | | |
| 1.5 | | | | Termination Depth at:1.5m BGL | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH87

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 9/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.858' S 149°41.656' E
**SURFACE ELEVATION** 674m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH87(0.2m)<br>ST-01-1533-BH87-ASB(0.2m) | Y | | Topsoil. Silty CLAY. Organic. Dark brown. Gravely. Moist. Moderately stiff. | |
| 0.5 | ST-01-1533-BH87(0.8m) | | | Natural. Silty CLAY. Red-brown mottled. Slightly stiff. Moist. | |
| 1 | | | | | |
| 1.5 | | | | Termination Depth at:1.5m BGL | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH88

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 9/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.876' S 149°41.621' E
**SURFACE ELEVATION** 675m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH88(0.2m)<br>ST-01-1533-BH88-ASB(0.2m) | Y | | Topsoil. Silty CLAY. Organic. Dark brown. Gravely. Moist. Moderately stiff. | |
| 0.5 | ST-01-1533-BH88(0.8m) | | | Natural. Silty CLAY. Red-brown mottled. Slightly stiff. Moist. | |
| 1 | | | | | |
| 1.5 | | | | Termination Depth at:1.5m BGL | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH89

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 9/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.951' S 149°41.636' E
**SURFACE ELEVATION** 677m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH89(0.2m)<br>ST-01-1533-BH89-ASB(0.2m) | Y | | Topsoil. Silty CLAY. Organic. Dark brown. Gravely. Moist. Moderately stiff. | |
| 0.5 | ST-01-1533-BH89(0.7m) | | | Natural. Silty CLAY. Red-Yellow mottled. Slightly stiff. Moist. | |
| 1 | ST-01-1533-BH89(1.1m) | | | Natural. Silty CLAY. Grey-brown mottled. Slightly Loose. Gravely. Dry. | |
| 1.5 | | | | Termination Depth at:1.5m BGL | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH90

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 9/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.880' S 149°41.728' E
**SURFACE ELEVATION** 672m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH90(0.2m)<br>ST-01-1533-BH90-ASB(0.2m) | Y | | Topsoil. Clayey SILT. Organic. Dark to light brown. Moist. Moderately stiff. | |
| | | | | Natural. Silty CLAY. Yellow-red-grey mottled. Moderately stiff. Moist. | |
| 0.5 | ST-01-1533-BH90(0.5m) | | | | |
| | | | | Silty CLAY. Grey-yellow mottled. Slightly loose. Dry. | |
| | ST-01-1533-BH90(0.9m) | | | | |
| 1 | | | | Termination Depth at:1.07m BGL | |
| 1.5 | | | | | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH91

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 9/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.901' S 149°41.689' E
**SURFACE ELEVATION** 673m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH91(0.2m)<br>ST-01-1533-BH91-ASB(0.2m) | Y | | Topsoil. Silty CLAY. Organic. Dark brown. Moist. Moderately stiff. Some Gravels. | |
| 0.5 | ST-01-1533-BH91(0.8m) | | | Natural. Silty CLAY. Yellow-brown mottled. Moderately stiff. Moist. | |
| 1 | ST-01-1533-BH91(1m) | | | | |
| 1.5 | | | | Termination Depth at:1.5m BGL | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH92

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 9/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.941' S 149°41.691' E
**SURFACE ELEVATION** 674m AHD
**LOGGED BY** Shiladitya Mazumdar
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH92(0.2m)<br>ST-01-1533-BH92-ASB(0.2m) | Y | | Topsoil. Clayey SILT. Organic. Roots. Dark brown. Moist. Moderately stiff. | |
| 0.5 | ST-01-1533-BH92(0.8m) | | | Natural. Silty CLAY. Orange-red mottled. Moderately stiff. Moist. | |
| 1 | ST-01-1533-BH92(1.1m) | | | Silty CLAY. Grey-brown mottled. Slightly stiff. Dry. | |
| 1.5 | | | | Termination Depth at:1.5m BGL | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH93

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 8/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.928' S 149°41.746' E
**SURFACE ELEVATION** 671m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH93(0.2m)<br>ST-01-1533-BH93-ASB(0.2m | Y | | Topsoil. Silty CLAY with Gravels. Dark brown. Organic. Moderately stiff. Moist. | |
| 0.5 | | | | Natural. Silty CLAY. Yellow-grey mottled. Moderately Stiff. Moist. | |
| 1 | ST-01-1533-BH93(0.6m) | | | Silty CLAY with gravels. Grey-yellow mottled. Slightly stiff. Dry. | |
| 1.5 | | | | Termination Depth at:1.5m BGL | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH94

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 8/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.906' S 149°41.797' E
**SURFACE ELEVATION** 671m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH94(0.2m)<br>ST-01-1533-BH94-ASB(0.2m<br>ST-01-1533-BH94(0.5) | Y | | Topsoil. Silty CLAY with Gravels. Dark brown. Organic. Moderately stiff. Moist. | |
| 0.5 | | | | Natural. Clayey SILT. Yellow-grey mottled. Moderately Stiff. Moist. | |
| 1 | | | | Termination Depth at:0.84m BGL | |
| 1.5 | | | | | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH95

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 8/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.975' S 149°41.815' E
**SURFACE ELEVATION** 671m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH95(0.2m)<br>ST-01-1533-BH95-ASB | Y | | Topsoil. Silty CLAY. Dark brown. Organic. Moderately stiff. Moist. | |
| 0.5 | ST-01-1533-BH95(0.6m) | | | Natural. Silty CLAY. Red-yellow-brown mottled. Moderately stiff. Moist. | |
| 1 | ST-01-1533-BH95(1.1m) | | | Clayey SILT with gravels. Brown-red mottled. Slightly stiff. Dry. | |
| 1.26 | | | | Termination Depth at:1.26m BGL | |
| 1.5 | | | | | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH96

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 8/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.917' S 149°41.834' E
**SURFACE ELEVATION** 671m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH96(0.2m)<br>ST-01-1533-BH96-ASB(0.2m | Y | | Topsoil. Silty CLAY with Gravels. Dark brown. Organic. Moderately stiff. Moist. | |
| 0.5 | ST-01-1533-BH96(0.7m) | | | Natural. Silty CLAY. Red-brown mottled. Moderately Stiff. Moist. | |
| 1 | ST-01-1533-BH96(1.2m) | | | Natural. Silty CLAY. Yellow-grey mottled. Slightly stiff. Dry. | |
| 1.5 | | | | Termination Depth at:1.5m BGL | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH97

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 8/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.950' S 149°41.865' E
**SURFACE ELEVATION** 671m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH97(0.2m)<br>ST-01-1533-BH97-ASB(0.2m | Y | | Topsoil. Silty CLAY. Dark brown. Organic. Moderately stiff. Moist. | Roots |
| 0.5 | ST-01-1533-BH97(0.8m) | | | Natural. Silty CLAY. Orange-grey mottled. Moderately stiff. Moist. | |
| 1 | | | | | |
| 1.5 | | | | Termination Depth at:1.3m BGL | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# BORE LOGS BH98

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW 2022

**SAMPLING DATE** 8/11/2022
**SAMPLING CONTRACTOR** Numac
**OPERATOR** Tony
**SAMPLING EQUIPMENT** Direct Push Tube

**COORDINATES** 34°42.989' S 149°41.913' E
**SURFACE ELEVATION** 673m AHD
**LOGGED BY** Sirish Baniya
**CHECKED BY** Kannan Kaliappan

**COMMENTS**

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|---|---|
| 0 | ST-01-1533-BH98(0.2m) | Y | | Topsoil. Silty CLAY. Dark brown. Organic. Moderately stiff. Moist. | Roots |
| | ST-01-1533-BH98-ASB(0.2m | | | | |
| | ST-01-1533-BH98(0.5m) | | | Natural. Silty CLAY. Yellow-grey mottled. Moderately stiff. Moist. | |
| 0.5 | | | | | |
| 1 | ST-01-1533-BH98(1.1m) | | | Natural. Clayey SILT. Gravely.Brown-red. Slightly stiff. Dry. | |
| 1.5 | | | | Termination Depth at:1.5m BGL | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |

K2 CONSULTING GROUP

# GROUNDWATER LOG GW4

**PROJECT NUMBER** ST-01-1533
**PROJECT NAME** Detailed Site Investigation
**CLIENT** Alimaco Pty Ltd
**ADDRESS** 515 Crookwell Road, Kingsdale NSW
**DRILLER** NUMAC

**DRILLING DATE** 10/11/2022
**TOTAL DEPTH** 6 m BGL
**DIAMETER** 50 mm
**CASING** uPVC
**SCREEN** uPVC Factory Slotted

**COORDINATES** 34° 42.729'S, 149° 42.180'E
**COORD SYS** Degrees, Decimal minutes
**SURFACE ELEVATION** 673 m AHD
**WELL TOC** 6.5 m TOC

**COMMENTS** Samples collected on 18.11.2022, 25.11.2022 and 10.01.2022

**LOGGED BY** SB
**CHECKED BY** KK

| Samples | Analysed | Water strike m BGL | Depth (m) BGL | Graphic Log | Material Description | Well Diagram | Additional Observations |
|---|---|---|---|---|---|---|---|
| ST-01-1533-GW4<br>ST-01-1533-GW4(<br>ST-01-1533-GW4( | Y | ▽ | 0.5<br>1<br>1.5<br>2<br>2.5<br>3<br>3.5<br>4<br>4.5<br>5<br>5.5<br>6<br>6.5 | | Topsoil. Silty CLAY. Organic. Moist. Dark Brown.Loose.<br>NATURAL. SILTY CLAY: Moist. Stiff. Dark to light brown.<br>NATURAL. Clayey silt. Loose. Slightly moist. Grey.<br>NATURAL. Clayey silt. Loose. Wet. Grey.<br>Termination Depth at: 6.0 | Bentonite<br>Filter pack | |

**Disclaimer** This bore log is intended for environmental not geotechnical purposes.

K2 CONSULTING GROUP

# GROUNDWATER LOG GW5

| | | |
|---|---|---|
| **PROJECT NUMBER** ST-01-1533 | **DRILLING DATE** 10/11/2022 | **COORDINATES** 34° 42.753'S, 149° 42.211'E |
| **PROJECT NAME** Detailed Site Investigation | **TOTAL DEPTH** 8 m BGL | **COORD SYS** Degrees, Decimal minutes |
| **CLIENT** Alimaco Pty Ltd | **DIAMETER** 50 mm | |
| **ADDRESS** 515 Crookwell Road, Kingsdale NSW | **CASING** uPVC | **SURFACE ELEVATION** 674 m AHD |
| **DRILLER** NUMAC | **SCREEN** uPVC Factory Slotted | **WELL TOC** 6 m TOC |

**COMMENTS** Samples collected on 18.11.2022, 25.11.2022 and 10.01.2022

**LOGGED BY** SB
**CHECKED BY** KK

| Samples | Analysed | Water strike m BGL | Depth (m) BGL | Graphic Log | Material Description | Well Diagram | Additional Observations |
|---|---|---|---|---|---|---|---|
| ST-01-1533-GW5<br>ST-01-1533-GW5(<br>ST-01-1533-GW5) | Y | ▽ | 0.5<br>1<br>1.5<br>2<br>2.5<br>3<br>3.5<br>4<br>4.5<br>5<br>5.5<br>6<br>6.5<br>7<br>7.5 | | Topsoil. Silty CLAY. Organic. Moist. Dark Brown.Loose.<br>NATURAL. SILTY CLAY: Moist. Stiff. Dark to light brown.<br>NATURAL. Clayey silt. Loose. Slightly moist. Grey.<br>NATURAL. Clayey silt. Loose. Wet. Grey.<br>Termination Depth at: 8.0 | Bentonite<br>Filter pack<br>collapsed | |

**Disclaimer** This bore log is intended for environmental not geotechnical purposes.

**Appendix IV**

**Data Quality Objectives – Quality Assurance/Quality Control**

**Data Quality Objectives**

The Data Quality Objectives (DQO) process is a systematic planning tool based on the scientific method for establishing criteria for data quality and for developing data collection designs.

The DQO process is designed to clarify the study objectives, define the appropriate type of data and specify tolerable levels of potential decision errors.

The DQO is a seven-step planning process that is defined by the US EPA and the NSW EPA to facilitate the development of qualitative and quantitative parameters that enables to identify and collect sufficient high-quality data required for informed decision-making to meet the objectives of the investigation and ensure high-confidence of data is achieved in the investigation process.

The seven-step DQO process adopted for this DSI can be summarised as:

- Step 1: State the Problem – concisely describe the problem to be studied. Review prior studies and existing information to gain a sufficient understanding to define the problem.
- Step 2: Identify the Decision – identify what questions the study will attempt to resolve, and what actions may result.
- Step 3: Identify the Inputs to the Decision – identify the information that needs to be obtained and the measurements that need to be taken to resolve the decision statement.
- Step 4: Define the Study Boundaries – specify the periods and spatial area to which decisions will apply. Determine when and where data should be collected.
- Step 5: Develop a Decision Rule – define the statistical parameter of interest, specify the action level, and integrate the previous DQO outputs into a single statement that describes the logical basis for choosing among alternative actions.
- Step 6: Specify Tolerable Limits on Decision Errors – define the decision maker's tolerable decision error rates based on a consideration of the consequences of making an incorrect decision.
- Step 7: Optimise the Design –evaluate information from the previous steps and generate alternative data collection designs. Choose the most resource-effective design that meets all DQO.

Table 16. Data Quality Objectives

| Step | Detail |
|---|---|
| State the problem | Determine the nature and lateral/vertical extent of any contamination in the soils, surface water and groundwater onsite from any past and present activities undertaken on site.<br><br>Based on a previous limited environmental site investigation undertaken onsite (K2 ESI August 2022), Total Chromium was recorded in soil samples. Hence, a Detailed Site Investigation was recommended to assess any potential contamination of the site from Chromium in soils, groundwater and surface water, in addition to other CoPCs identified in **Section 10**. |
| Define the Study Boundary | • The investigation was undertaken across the site that is proposed to be developed Please refer to **Figure 5** in **Appendix I** for Areas of Environmental Concern (AECs 1 to 5).<br>• The horizontal boundary of the investigation included the subject areas comprising AEC1, AEC2, AEC3, AEC4, and AEC5.<br>• Soil samples were collected across the proposed development area at various depths from the topsoil layer (0.0-0.2m BGL) followed by the natural layer starting from 0.3 m BGL. The depth of the investigation was limited to 1.5 m BGL as natural soils were expected beyond this depth and this depth was deemed sufficient.<br>• Surface water samples were collected from two (2) surface water dams.<br>• Two (2) groundwater wells were installed and developed, and samples were collected from each monitoring well during three (3) groundwater monitoring events. |
| Develop a decision rule | If the concentration of the CoPCs in the assessed media is reported to be below the relevant adopted site acceptance criteria and/or LORs, then the area of investigation will be deemed suitable, and no management or remediation options will be proposed for its current or proposed land use.<br><br>If the concentration of one (1) or more CoPCs exceeds the site acceptance criteria, then further investigation will be required to delineate the vertical and horizontal extent of contamination, and remediation or management methods may be required.<br><br>The following s statistical criteria were adopted during the investigation:<br>• 95% upper confidence limit of the average concentration of each analyte must be below the site acceptance criteria;<br>• No single analyte concentration shall exceed 250% of the adopted criteria;<br>• The standard deviation of the results must be less than 50% of the adopted criteria. |
| Specify Tolerable Limits on Decision Errors | Precision is measured using the standard deviation (SD) or Relative Percent Difference (%RPD).<br><br>Replicate data for field duplicates for organics is expected to be as follows:<br>• RPD criteria of 50% or less, for concentrations ≥10 times LOR.<br>• No limit on RPD criteria - if the primary and duplicate concentration is < 10 times LOR; and<br>• If both sample values are less than the LOR, the RPD is not calculated.<br><br>Replicate data for field duplicates for Inorganics is expected to be as follows:<br>• RPD criteria of 30% or less, for concentrations ≥10 times LOR.<br>• No limit on RPD criteria - if the primary and duplicate concentration is <10 times LOR; and<br>• If both sample values are less than the LOR, the RPD is not calculated. |

| Step | Detail |
|---|---|
| | Where acceptable limits for field duplicates were not met, a discussion on low-biased error will be provided. |
| Optimise the Design | The soil samples were collected from various depths in the topsoil or fill zone (in some boreholes), and from natural soils below. Soils were also collected when there is a change in the soil profile or apparent contamination is observed. |

**Field Procedures**

The quality and appropriateness of field procedures were assessed by the following QA/QC measures.

Table 17. Field QA/QC Assessment

| Measure | Outcome | Comment |
|---|---|---|
| Calibration of field equipment | Complete | Equipment (Water Quality meter) was calibrated prior to each sampling event by the equipment supplier/servicer. See **Appendix VIII** for the calibration certificates. No calibration certificates were available for the peristaltic pump and the water interface meters. |
| Replicate Frequency | Pass | Inter and intra-laboratory duplicates were collected and analysed at the following frequencies:<br>Soil:<br>• 1 set of replicates per 20 primary samples – all analytes (1/20 or 5%)<br>A total of eighty-eight (88) samples were subjected to laboratory analysis during the DSI. A total of four (4) inter-lab and intra-lab duplicate samples were collected.<br><br>A total of twelve (12) samples were subjected to laboratory analysis during the PSI. A total of one (1) inter-lab and intra-lab duplicate sample was collected.<br><br>One (1) set of inter-lab/intra-lab sample jars was damaged during the soil sampling event, however, this DSI also includes the findings of the PSI (2022), a total of one hundred (100) samples were subjected to laboratory analysis and five (5) inter-lab and intra-lab duplicate samples were collected.<br><br>These frequencies meet the minimum required rate of 1/20 or 5%, indicating acceptable rates of replicate frequency. |
| Decontamination / Cross Contamination | Pass | All reusable equipment (hand auger, where required) was decontaminated between sampling locations. Distilled water was supplied by the primary laboratory for decontamination. Dedicated nitrile gloves were worn for each sample location. Rinsate samples reported concentrations of all analytes < LOR.<br>Eighty-three (83) of the boreholes were drilled using Push Tubes. A new push tube was used for each borehole and soil samples were collected after the push tubes were cut open. Hence, decontamination for the push tubes was not required. |
| Sample Handling and Preservation | Complete | Following collection, all soil samples were immediately placed into an appropriate laboratory-supplied sample container and stored on ice in an esky. Samples were kept chilled and transported to the laboratory under Chain of Custody (CoC) documentation. Details of the sample transportation and handling can be found on the CoC and Sample Receipt Notification (SRN) documentation (see **Appendix VII** – Laboratory reports). |
| Chain of custody | Complete | Samples were transported to the laboratory under a completed CoC. Information on the CoC included: staff details, sample identifier, sample matrix, collection date, analyses to be performed, sample release date and sample received to date. CoCs are provided in **Appendix VII** along with all associated laboratory reports. |

| Measure | Outcome | Comment |
|---|---|---|
| Trip Blank | Pass | One (1) Trip blank and one (1) Trip spike was placed in the Esky during transportation to the lab to assess for potential cross-contamination. All samples were collected within laboratory-supplied sample containers and stored and transported within an ice-chilled Esky to prevent the loss of volatile compounds. |

**Analytical QA/QC**

The following table presents a review of relevant laboratory QA/QC procedures and measures, to enable an assessment of overall data quality. The detailed QA/QC reports from the primary and secondary laboratories are provided in **Appendix VII** – Laboratory reports.

Table 18. Summary of laboratory

| Measure | Outcome | Comment |
|---|---|---|
| Accreditation | Pass | Primary laboratory: SGS Australia Pty Ltd<br>Secondary Laboratory: Eurofins\|MGT (Eurofins)<br><br>Both laboratories are NATA accredited. Refer to www. nata.com.au for their respective accreditation numbers |
| Holding times | Pass | Samples were analysed and extracted within the recommended holding times |
| Intra-laboratory Duplicate | Pass | The following intra-laboratory Field Duplicate samples were submitted to the primary laboratory (SGS) for analysis:<br><br>• Soil field duplicate ST-01-1533-BR1; Primary ST-01-1533-BH16 (0.2m)<br>• Soil field duplicate ST-01-1533-BR2; Primary ST-01-1533-BH97 (0.2m)<br>• Soil field duplicate ST-01-1533-BR3; Primary ST-01-1533-BH92 (0.2m)<br>• Soil field duplicate ST-01-1533-BR4; Primary ST-01-1533-BH54 (0.2m)<br><br>Field duplicate results are presented in **Appendix VI** – laboratory summary. RPD exceedances were noted for Copper, Lead ad Nickel in the intra-lab duplicate sample (sample ID: ST-01-1533-BR1), which can be attributed to the heterogeneity of the soil samples. |
| Inter-laboratory Duplicate | Pass | The following inter-laboratory Field Split (Triplicate) samples were submitted to the secondary laboratory (Eurofins) for analysis.<br>• Soil field duplicate ST-01-1533-SR1; Primary ST-01-1533-BH16 (0.2m)<br>• Soil field duplicate ST-01-1533-BR2; Primary ST-01-1533-BH97 (0.2m)<br>• Soil field duplicate ST-01-1533-BR3; Primary ST-01-1533-BH92 (0.2m)<br>• Soil field duplicate ST-01-1533-BR4; Primary ST-01-1533-BH54 (0.2m)<br><br>Field duplicate results are presented in **Appendix VI** – laboratory summary. RPD exceedances were noted for Total Chromium and Lead in the intra-lab duplicate sample (sample ID: ST-01-1533-SR1), which can be attributed to the heterogeneity of the soil samples. |
| Internal laboratory duplicate | Pass | Internal laboratory duplicates provide information regarding method precision and sample heterogeneity. Several samples did not meet the recovery criteria and as explained in the laboratory report, this can be contributed to sample heterogeneity and matrix interference. Refer to **Appendix VII** for laboratory reports. |
| Laboratory method blank | Pass | Laboratory method blanks indicated that key contaminants of interest were not detectable at levels above the relevant standard LORs. |
| Percent Recoveries of | Pass | The reported laboratory spikes were within acceptable ranges. |

| Measure | Outcome | Comment |
|---|---|---|
| Spikes and Surrogates | | The laboratory surrogate results were within the acceptable ranges with the exception of one surface water sample (sample ID: ST-01-1533-WD1) and one soil sample (sample ID: ST-01-1533-BH28).<br><br>At least 2 out of the 3 surrogate compounds were recovered by the laboratory within acceptable recovery ranges in the sample ST-01-1533-BH28(0.4m).<br><br>Recovery failed due to matrix interference in the sample ST-01-1533-WD1.<br><br>By considering all field and laboratory quality control data, the two exceptions of surrogate recovery rate do not affect the quality of the results and are hence considered acceptable. |

**Data Quality Summary**

A key objective of the data quality assessment is to provide a consistent approach to the evaluation of whether the DQOs of the project have been achieved. The following table summarises the outcomes of the DQOs and associated data quality assessment outcomes.

Table 19. Data Quality Assessment Summary

| DQO | Evaluation |
|---|---|
| Documentation Completeness | CoC forms, calibration certificates field forms and laboratory analytical reports were complete and appropriate |
| Data Completeness | All samples were received by the laboratory and analytical results were fully reported, including laboratory QA/QC |
| Data Comparability | Industry-standard operating procedures and best practices were followed during sampling. Consistent field conditions and similarly trained staff were used during sampling. Consistent use of the primary laboratory for the current analytical assessment |
| Data Representativeness | The frequency of laboratory blanks was acceptable, and the results were within specified ranges. Some recovery rates were outside the acceptable range however as indicated by the laboratory, the exceedances were caused by sample heterogeneity and matrix interference.<br><br>Based on the concentration of analytes in the primary samples presented and the soil matrix observed onsite it is considered that the data obtained is representative of the site conditions and is considered sufficient. |
| Precision | No unexpected anomalies were observed, and duplicate data was generally within acceptable ranges. |

In summary, the majority of the QA/QC measures conformed with relevant procedures, methodologies, and acceptance criteria. The data was considered to be representative of site conditions and chemical concentrations in the environmental media sampled and are therefore suitable for use in this DSI.

**Appendix V**

**RPD Comparison**

| Analytes | | LOR (mg/kg) | (ST-01-1533-BH16)[1] | (ST-01-1533-BR1)[1] | RPD1 % | DQI met | (ST-01-1533-BH97)[2] | (ST-01-1533-BR2)[2] | RPD2 % | DQI met | (ST-01-1533-BH92)[3] | (ST-01-1533-BR3)[3] | RPD3 % | DQI met | (ST-01-1533-BH54)[4] | (ST-01-1533-BR4)[4] | RPD4 % | DQI met |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Metals and Metalloids | Arsenic | 1 | 3 | 4 | 29 | Yes | 5 | 5 | NA | Yes | 6 | 2 | 100 | Yes | 2 | 5 | 86 | Yes |
| | Cadmium | 0.3 | <0.3 | <0.3 | NA | Yes | <0.3 | <0.3 | NA | Yes | <0.3 | <0.3 | NA | Yes | <0.3 | <0.3 | NA | Yes |
| | Total Chromium | 0.5 | 110 | 100 | 10 | Yes | 59 | 48 | 21 | Yes | 42 | 110 | 89 | No | 110 | 35 | 103 | No |
| | Chromium VI | 0.5 | <0.5 | NA | NA | Yes | NA | NA | NA | Yes | NA | NA | NA | Yes | <0.5 | NA | NA | Yes |
| | Copper | 0.5 | 31 | 19 | 48 | **No** | 2.4 | 2.5 | 4 | Yes | 3 | 38 | 171 | Yes | 35 | 3.3 | 166 | Yes |
| | Lead | 1 | 11 | 20 | 58 | **No** | 27 | 2.7 | 164 | Yes | 18 | 9 | 67 | Yes | 8 | 18 | 77 | Yes |
| | Mercury (inorganic) | 0.05 | <0.05 | <0.05 | NA | Yes | <0.05 | <0.05 | NA | Yes | <0.05 | <0.05 | NA | Yes | <0.05 | <0.05 | NA | Yes |
| | Nickel | 0.5 | 62 | 38 | 48 | **No** | 2.2 | 2.2 | NA | Yes | 2.7 | 83 | 187 | Yes | 76 | 3 | 185 | Yes |
| | Zinc | 2 | 22 | 28 | 24 | Yes | 8.1 | 7.9 | 2 | Yes | 9.9 | 42 | 124 | Yes | 40 | 11 | 114 | Yes |
| TRH | TRH C6 - C9 | 20 | <20 | <20 | NA | Yes | <20 | <20 | NA | Yes | <20 | <20 | NA | Yes | <20 | <20 | NA | Yes |
| | TRH C10-C14 | 20 | <20 | <20 | NA | Yes | <20 | <20 | NA | Yes | <20 | <20 | NA | Yes | <20 | <20 | NA | Yes |
| | F1 ((C6-C10)-BTEX) | 25 | <25 | <25 | NA | Yes | <25 | <25 | NA | Yes | <25 | <25 | NA | Yes | <25 | <25 | NA | Yes |
| | F2 ( >C10-C16 less Naphthalene) | 25 | <25 | <25 | NA | Yes | <25 | <25 | NA | Yes | <25 | <25 | NA | Yes | <25 | <25 | NA | Yes |
| | F3 (>C16-C34) | 90 | <90 | <90 | NA | Yes | <90 | <90 | NA | Yes | <90 | <90 | NA | Yes | <90 | <90 | NA | Yes |
| | F4 (>C34-C40) | 120 | <120 | <120 | NA | Yes | <120 | <120 | NA | Yes | <120 | <120 | NA | Yes | <120 | <120 | NA | Yes |
| BTEX | Benzene | 0.1 | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes |
| | Toluene | 0.1 | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes |
| | Ethylbenzene | 0.1 | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes |
| | Total Xylenes | 0.3 | <0.3 | <0.3 | NA | Yes | <0.3 | <0.3 | NA | Yes | <0.3 | <0.3 | NA | Yes | <0.3 | <0.3 | NA | Yes |
| PAH | Acenaphthene | 0.10 | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes |
| | Acenaphthylene | 0.10 | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes |
| | Anthracene | 0.10 | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes |
| | Benz(a)anthracene | 0.10 | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes |
| | Benzo(a)pyrene | 0.10 | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes |
| | Benzo(b,j)fluoranthene | 0.10 | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes |
| | Benzo(g,h,i)perylene | 0.10 | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes |
| | Benzo(k)fluoranthene | 0.10 | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes |
| | Chrysene | 0.10 | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes |
| | Dibenz(a,h)anthracene | 0.10 | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes |
| | Fluoranthene | 0.10 | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes |
| | Fluorene | 0.10 | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes |
| | Indeno(1,2,3-c,d)pyrene | 0.10 | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes |
| | Naphthalene | 0.10 | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes |
| | Phenanthrene | 0.10 | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes |
| | Pyrene | 0.10 | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes |
| | PAH (Total) | 0.80 | 0.8 | 0.8 | NA | Yes | Yes | Yes | NA | Yes | Yes | Yes | NA | Yes | Yes | Yes | NA | Yes |
| | Carcinogenic PAHs as B(a)P TEQ | 0.20 | <0.2 | <0.2 | NA | Yes | <0.2 | <0.2 | NA | Yes | <0.2 | <0.2 | NA | Yes | <0.2 | <0.2 | NA | Yes |
| OCP | DDT+DDE+DDD | 0.10 | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes | Yes | Yes | NA | Yes | Yes | Yes | NA | Yes |
| | Aldrin & Dieldrin | 0.10 | 0.1 | 0.1 | NA | Yes | Yes | Yes | NA | Yes | Yes | Yes | NA | Yes | Yes | Yes | NA | Yes |
| | Total Chlordane | 0.10 | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes |
| | Total Endosulfan | 0.10 | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes |
| | Endrin | 0.20 | <0.2 | <0.2 | NA | Yes | <0.2 | <0.2 | NA | Yes | <0.2 | <0.2 | NA | Yes | <0.2 | <0.2 | NA | Yes |
| | Heptachlor | 0.10 | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes |
| | Hexachlorobenzene ne | 0.10 | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes |
| | Methoxychlor | 0.10 | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes | <0.1 | <0.1 | NA | Yes |
| OPP | Chlorpyriphos | 0.20 | <0.2 | <0.2 | NA | Yes | <0.2 | <0.2 | NA | Yes | <0.2 | <0.2 | NA | Yes | <0.2 | <0.2 | NA | Yes |

Note:
Yellow
cells contain RPD calculations greater than 30% for inorganic analytes. However,this is not considered to be significant because
Overall, the intra-laboratory replicate comparisons indicate that the sampling techniques were generally consistent and repeatable.

**Appendix VI**

**Laboratory Results - Summary**

K2 CONSULTING GROUP

| | | | | Metals and Metalloids | | | | | | | | | TRH | | | | | | BTEX | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Arsenic | Cadmium | Total Chromium | Chromium VI | Copper | Lead | Mercury (inorganic) | Nickel | Zinc | TRH C6 - C9 | TRH C10-C14 | F1 ((C6-C10)- BTEX) | F2 (>C10-C16 less Naphthalene) | F3 (>C16-C34) | F4 (>C34-C40) | Benzene | Toluene | Ethylbenzene | Total Xylenes |
| | Sampling strategy | | LOR | 1 | 0.3 | 0.5 | 0.5 | 0.5 | 1 | 0.05 | 0.5 | 2 | 20 | 20 | 25 | 25 | 90 | 120 | 0.1 | 0.1 | 0.1 | 0.3 |
| **Sample ID** | | Depth | Sample Date | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| HIL A (Residential) (NEPM schedule-b1) | | | | 100 | 20 | - | 100 | 6,000 | 300 | 40 | 400 | 7,400 | - | - | - | - | - | - | - | - | - | - |
| HSL A (Low-Density Residential) (NEPM schedule-b1) | | 0- <1m | Clay | - | - | - | - | - | - | - | - | - | - | - | 50 | 280 | - | - | 0.7 | 480 | NL | 110 |
| Management Limit (NEPM schedule-b1) (Fine soils) | | | | - | - | - | - | - | - | - | - | - | - | - | 800 | 1000 | 3,500 | 10,000 | - | - | - | - |
| HSL (Direct soil contact) (NEPM schedule-b1) (Fine soils) | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 100 | 14000 | 4500 | 12000 |
| EILs (NEPM schedule-b1) - Site specific | | | | 100 | - | - | - | 210 | 1100 | - | 180 | 500 | - | - | - | - | - | - | - | - | - | - |
| ESLs (NEPM schedule-b1) | | | | - | - | - | - | - | - | - | - | - | - | - | 180 | 120 | 1,300 | 5,600 | 65 | 105 | 125 | 45 |
| ST-01-1492-BH01 | Targeted | 0.2 | 27.06.2022 | 2.2 | <0.4 | 190 | NA | 27 | 9.1 | <0.1 | 100 | 48 | <20 | <20 | <20 | <50 | <100 | <100 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1492-BH01 | Targeted | 0.7 | 27.06.2022 | 2.2 | <0.4 | 150 | NA | 21 | 7.8 | <0.1 | 80 | 43 | <20 | <20 | <20 | <50 | <100 | <100 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1492-BH01 | Targeted | 1 | 27.06.2022 | <2 | <0.4 | 250 | NA | 23 | <5 | <0.1 | 120 | 68 | <20 | <20 | <20 | <50 | <100 | <100 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1492-BH02 | Targeted | 0.2 | 27.06.2022 | 4.3 | <0.4 | 81 | NA | 17 | 22 | <0.1 | 30 | 49 | <20 | <20 | <20 | <50 | <100 | <100 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1492-BH02 | Targeted | 0.4 | 27.06.2022 | 4.7 | <0.4 | 110 | NA | 17 | 22 | <0.1 | 31 | 32 | <20 | <20 | <20 | <50 | <100 | <100 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1492-BH03 | Targeted | 0.2 | 27.06.2022 | 12 | <0.4 | 140 | NA | 19 | 28 | <0.1 | 28 | 39 | <20 | <20 | <20 | <50 | <100 | <100 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1492-BH03 | Targeted | 0.5 | 27.06.2022 | 12 | <0.4 | 150 | NA | 29 | 25 | <0.1 | 50 | 38 | <20 | <20 | <20 | <50 | <100 | <100 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1492-BH04 | Targeted | 0.2 | 27.06.2022 | <2 | <0.4 | 170 | NA | 54 | 13 | <0.1 | 120 | 180 | <20 | <20 | <20 | <50 | <100 | <100 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1492-BH04 | Targeted | 0.4 | 27.06.2022 | <2 | <0.4 | 110 | NA | 38 | <5 | <0.1 | 120 | 63 | <20 | <20 | <20 | <50 | <100 | <100 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1492-BH07 | Targeted | 0.2 | 27.06.2022 | 7.1 | <0.4 | 76 | NA | 24 | 16 | <0.1 | 30 | 34 | <20 | <20 | <20 | <50 | <100 | <100 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1492-BH07 | Targeted | 0.4 | 27.06.2022 | 5.3 | <0.4 | 71 | NA | 23 | 15 | <0.1 | 35 | 38 | <20 | <20 | <20 | <50 | <100 | <100 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1492-BH08 | Targeted | 0.2 | 27.06.2022 | 30 | <0.4 | 160 | NA | 14 | 31 | <0.1 | 11 | 21 | <20 | <20 | <20 | <50 | <100 | <100 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1492-BH08 | Targeted | 0.4 | 27.06.2022 | 3.9 | <0.4 | 48 | NA | 18 | 13 | <0.1 | 16 | 32 | <20 | <20 | <20 | <50 | <100 | <100 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1492-BH09 | Targeted | 0.2 | 27.06.2022 | 15 | <0.4 | 52 | NA | 5.1 | 31 | <0.1 | 6.2 | 14 | <20 | <20 | <20 | <50 | <100 | <100 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1492-BH10 | Targeted | 0.2 | 27.06.2022 | 6.9 | <0.4 | 32 | NA | 5.7 | 19 | <0.1 | <5 | 31 | <20 | <20 | <20 | <50 | <100 | <100 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1492-BH05 | Targeted | 0.2 | 27.06.2022 | 21 | <0.4 | 130 | NA | 14 | 34 | <0.1 | 11 | 130 | <20 | <20 | <20 | <50 | 110 | <100 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1492-BH05 | Targeted | 0.4 | 27.06.2022 | 27 | <0.4 | 190 | NA | 12 | 49 | <0.1 | 7.8 | 59 | <20 | <20 | <20 | <50 | <100 | <100 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1492-SS01 | Targeted | surface sample | 27.06.2022 | 4.7 | <0.4 | 29 | NA | 23 | 12 | <0.1 | 5.7 | 85 | <20 | <20 | <20 | <50 | 110 | <100 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1492-SS02 | Targeted | surface sample | 27.06.2022 | 10 | <0.4 | 140 | NA | 38 | 37 | <0.1 | 62 | 220 | <100 | <100 | <100 | <50 | <500 | 710 | <0.5 | <0.5 | <0.5 | <1.5 |
| ST-01-1492-SS03 | Targeted | surface sample | 27.06.2022 | 5 | <0.4 | 24 | NA | 28 | 9.4 | <0.1 | 16 | 350 | <100 | <20 | <100 | <50 | <500 | 200 | <0.5 | <0.5 | <0.5 | <1.5 |
| ST-01-1533-BH11(0.2m) | Systematic | 0.2 | 7.11.2022 | 4 | <0.3 | 89 | NA | 5.8 | 16 | <0.05 | 8.7 | 7.5 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH12(0.7m) | Systematic | 0.7 | 7.11.2022 | 1 | <0.3 | 93 | <0.5 | 43 | 2 | <0.05 | 69 | 41 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH13(0.2m) | Systematic | 0.2 | 7.11.2022 | 4 | <0.3 | 140 | <0.5 | 30 | 14 | <0.05 | 53 | 30 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH14(0.2m) | Systematic | 0.2 | 7.11.2022 | 2 | <0.3 | 130 | <0.5 | 30 | 6 | <0.05 | 89 | 33 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH15(0.5m) | Systematic | 0.5 | 7.11.2022 | 2 | <0.3 | 120 | <0.5 | 38 | 3 | <0.05 | 170 | 38 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH16(0.2m) | Systematic | 0.2 | 7.11.2022 | 3 | <0.3 | 110 | <0.5 | 31 | 11 | <0.05 | 62 | 22 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH17(0.7m) | Systematic | 0.7 | 7.11.2022 | 1 | <0.3 | 78 | NA | 1100 | 2 | <0.05 | 79 | 42 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH18(0.2m) | Systematic | 0.2 | 7.11.2022 | 3 | <0.3 | 91 | <0.5 | 13 | 12 | <0.05 | 21 | 13 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH19(0.2m) | Systematic | 0.2 | 7.11.2022 | 3 | <0.3 | 110 | <0.5 | 46 | 8 | <0.05 | 85 | 55 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH20(0.2m) | Systematic | 0.2 | 7.11.2022 | 10 | 0.4 | 75 | NA | 13 | 29 | <0.05 | 13 | 43 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH21(0.5m) | Systematic | 0.5 | 7.11.2022 | <1 | <0.3 | 310 | <0.5 | 15 | 1 | <0.05 | 140 | 65 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH22(0.2m) | Systematic | 0.2 | 7.11.2022 | 2 | <0.3 | 95 | <0.5 | 22 | 11 | <0.05 | 55 | 31 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH23(0.2m) | Systematic | 0.2 | 7.11.2022 | 23 | <0.3 | 53 | <0.5 | 72 | 20 | <0.05 | 27 | 79 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH24(0.2m) | Systematic | 0.2 | 7.11.2022 | 3 | <0.3 | 95 | <0.5 | 24 | 9 | <0.05 | 60 | 50 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH25(0.2m) | Systematic | 0.2 | 7.11.2022 | 3 | <0.3 | 92 | <0.5 | 18 | 10 | <0.05 | 44 | 50 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH26(surface sample) | Systematic | surface sample | 7.11.2022 | 1 | <0.3 | 21 | NA | 5 | 9 | <0.05 | 6.5 | 24 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH27(0.2m) | Systematic | 0.2 | 10.11.2022 | 3 | <0.3 | 110 | <0.5 | 34 | 18 | <0.05 | 68 | 100 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH28(0.4m) | Systematic | 0.4 | 7.11.2022 | 2 | <0.3 | 120 | <0.5 | 26 | 3 | <0.05 | 64 | 28 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH29(0.5m) | Systematic | 0.5 | 10.11.2022 | 3 | <0.3 | 64 | <0.5 | 20 | 13 | <0.05 | 34 | 30 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH30(0.2m) | Systematic | 0.2 | 9.11.2022 | 2 | <0.3 | 93 | <0.5 | 27 | 9 | <0.05 | 48 | 71 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH31(0.2m) | Systematic | 0.2 | 9.11.2022 | <1 | <0.3 | 110 | <0.5 | 27 | 5 | <0.05 | 62 | 49 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH32(0.2m) | Systematic | 0.2 | 8.11.2022 | 7 | <0.3 | 45 | <0.5 | 11 | 14 | <0.05 | 8.7 | 10 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH33(0.2m) | Systematic | 0.2 | 8.11.2022 | 3 | <0.3 | 150 | NA | 54 | 5 | <0.05 | 160 | 52 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH34(0.2m) | Systematic | 0.2 | 8.11.2022 | 2 | <0.3 | 35 | NA | 2.2 | 12 | <0.05 | 2.6 | 5.1 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH35(0.2m) | Systematic | 0.2 | 7.11.200 | 3 | <0.3 | 47 | NA | 3.5 | 13 | <0.05 | 3.4 | 9.4 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH36(0.6m) | Systematic | 0.6 | 7.11.2022 | 4 | <0.3 | 46 | NA | 7.9 | 27 | <0.05 | 4.7 | 11 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH37(0.6m) | Systematic | 0.6 | 9.11.2022 | 4 | <0.3 | 40 | NA | 10 | 19 | <0.05 | 6.3 | 11 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH38(0.2m) | Systematic | 0.2 | 9.11.2022 | 6 | <0.3 | 39 | <0.5 | 13 | 17 | <0.05 | 8.1 | 80 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH39(0.2m) | Systematic | 0.2 | 9.11.2022 | 3 | <0.3 | 38 | NA | 11 | 14 | <0.05 | 7.8 | 12 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH40(0.2m) | Judgemental | 0.2 | 7.11.2022 | <1 | <0.3 | 140 | <0.5 | 23 | 3 | <0.05 | 95 | 42 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH41(0.5m) | Judgemental | 0.5 | 7.11.2022 | 2 | <0.3 | 110 | <0.5 | 34 | 6 | <0.05 | 110 | 34 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH42(0.2m) | Judgemental | 0.2 | 7.11.2022 | 2 | <0.3 | 71 | NA | 18 | 8 | <0.05 | 33 | 37 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH43(0.2m) | Judgemental | 0.2 | 9.11.2022 | 2 | <0.3 | 95 | <0.5 | 28 | 10 | <0.05 | 81 | 33 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH44(0.2m) | Judgemental | 0.2 | 9.11.2022 | 3 | <0.3 | 52 | NA | 20 | 12 | <0.05 | 38 | 28 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH45(0.2m) | Judgemental | 0.2 | 9.11.2022 | 2 | <0.3 | 80 | <0.5 | 19 | 9 | <0.05 | 40 | 28 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH46(0.2m) | Judgemental | 0.2 | 9.11.2022 | 2 | <0.3 | 84 | <0.5 | 20 | 12 | <0.05 | 30 | 52 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH47(0.7m) | Judgemental | 0.7 | 8.11.2022 | 3 | <0.3 | 15 | NA | 5.6 | 10 | <0.05 | 4 | 9 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH48(0.1m) | Judgemental | 0.1 | 8.11.2022 | 3 | <0.3 | 33 | NA | 1.9 | 12 | <0.05 | 1.9 | 4.2 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH49(0.5m) | Judgemental | 0.5 | 8.11.2022 | 3 | <0.3 | 5 | NA | 2 | 7 | 0.06 | 1.1 | 8.6 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH50(0.2m) | Judgemental | 0.2 | 8.11.2022 | 3 | <0.3 | 16 | NA | 2 | 15 | <0.05 | 1.4 | 6.3 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH51(0.2m) | Judgemental | 0.2 | 8.11.2022 | 6 | <0.3 | 91 | <0.5 | 3.7 | 25 | <0.05 | 4.9 | 12 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH52(0.7m) | Judgemental | 0.7 | 8.11.2022 | 5 | <0.3 | 20 | NA | 10 | 15 | <0.05 | 6.1 | 11 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH53(0.2m) | Judgemental | 0.2 | 8.11.2022 | 4 | <0.3 | 13 | NA | 5.3 | 16 | <0.05 | 2.4 | 12 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH54(0.2m) | Judgemental | 0.2 | 9.11.2022 | 2 | <0.3 | 110 | <0.5 | 35 | 8 | <0.05 | 76 | 40 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH55(0.7m) | Judgemental | 0.7 | 9.11.2022 | <1 | <0.3 | 37 | <0.5 | 19 | <1 | <0.05 | 97 | 39 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |

K2 CONSULTING GROUP

| | | | | Metals and Metalloids | | | | | | | | | | TRH | | | | | | BTEX | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Arsenic | Cadmium | Total Chromium | Chromium VI | Copper | Lead | Mercury (inorganic) | Nickel | Zinc | TRH C6 - C9 | TRH C10-C14 | F1 ((C6-C10)- BTEX) | F2 (>C10-C16 less Naphthalene) | F3 (>C16-C34) | F4 (>C34-C40) | Benzene | Toluene | Ethylbenzene | Total Xylenes |
| | Sampling strategy | | LOR | 1 | 0.3 | 0.5 | 0.5 | 0.5 | 1 | 0.05 | 0.5 | 2 | 20 | 20 | 25 | 25 | 90 | 120 | 0.1 | 0.1 | 0.1 | 0.3 |
| **Sample ID** | | Depth | Sample Date | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| HIL A (Residential) (NEPM schedule-b1) | | | | 100 | 20 | - | 100 | 6,000 | 300 | 40 | 400 | 7,400 | - | - | - | - | - | - | - | - | - | - |
| HSL A (Low-Density Residential) (NEPM schedule-b1) | | 0- <1m | Clay | - | - | - | - | - | - | - | - | - | - | - | 50 | 280 | - | - | 0.7 | 480 | NL | 110 |
| Management Limit (NEPM schedule-b1) (Fine soils) | | | | - | - | - | - | - | - | - | - | - | - | - | 800 | 1000 | 3,500 | 10,000 | - | - | - | - |
| HSL (Direct soil contact) (NEPM schedule-b1) (Fine soils) | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 100 | 14000 | 4500 | 12000 |
| EILs (NEPM schedule-b1) - Site specific | | | | 100 | - | - | - | 210 | 1100 | - | 180 | 500 | - | - | - | - | - | - | - | - | - | - |
| ESLs (NEPM schedule-b1) | | | | - | - | - | - | - | - | - | - | - | - | - | 180 | 120 | 1,300 | 5,600 | 65 | 105 | 125 | 45 |
| ST-01-1533-BH56(0.2m) | Judgemental | 0.2 | 9.11.2022 | 2 | <0.3 | 61 | NA | 21 | 8 | <0.05 | 43 | 36 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH57(0.2m) | Judgemental | 0.2 | 9.11.2022 | 1 | <0.3 | 130 | <0.5 | 28 | 7 | <0.05 | 76 | 46 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH58(0.2m) | Judgemental | 0.2 | 9.11.2022 | 3 | <0.3 | 110 | <0.5 | 18 | 11 | <0.05 | 55 | 27 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH59(0.2m) | Judgemental | 0.2 | 9.11.2022 | 1 | <0.3 | 250 | <0.5 | 56 | 6 | <0.05 | 210 | 56 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH60(0.2m) | Judgemental | 0.2 | 9.11.2022 | <1 | <0.3 | 170 | <0.5 | 26 | 2 | <0.05 | 91 | 40 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH61(0.5m) | Judgemental | 0.5 | 9.11.2022 | 1 | <0.3 | 85 | 0.5 | 30 | 3 | <0.05 | 82 | 39 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH62(0.2m) | Judgemental | 0.2 | 9.11.2022 | 1 | <0.3 | 140 | <0.5 | 36 | 5 | <0.05 | 100 | 49 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH63(0.2m) | Judgemental | 0.2 | 8.11.2022 | 4 | <0.3 | 100 | <0.5 | 6 | 17 | <0.05 | 7.6 | 13 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH64(0.2m) | Judgemental | 0.2 | 8.11.2022 | 13 | <0.3 | 170 | <0.5 | 6 | 39 | 0.05 | 8.3 | 16 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH65(0.9m) | Judgemental | 0.9 | 8.11.2022 | 24 | <0.3 | 59 | NA | 28 | 20 | <0.05 | 42 | 48 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH66(0.2m) | Judgemental | 0.2 | 8.11.2022 | 4 | <0.3 | 66 | NA | 3 | 17 | <0.05 | 3.7 | 8.4 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH67(0.2m) | Judgemental | 0.2 | 8.11.2022 | 3 | <0.3 | 87 | <0.5 | 28 | 8 | <0.05 | 68 | 25 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH68(0.6m) | Judgemental | 0.6 | 8.11.2022 | 4 | <0.3 | 130 | <0.5 | 24 | 3 | <0.05 | 71 | 32 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH69(0.2m) | Judgemental | 0.2 | 8.11.2022 | 4 | <0.3 | 30 | NA | 5.9 | 14 | <0.05 | 2.8 | 22 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH70(0.2m) | Judgemental | 0.2 | 8.11.2022 | 2 | <0.3 | 21 | NA | 2.4 | 14 | <0.05 | 1.5 | 6 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH71(0.2m) | Judgemental | 0.2 | 8.11.2022 | 5 | <0.3 | 59 | <0.5 | 3.5 | 34 | <0.05 | 3 | 6.6 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH72(0.8m) | Judgemental | 0.8 | 8.11.2022 | 2 | <0.3 | 18 | NA | 10 | 13 | <0.05 | 7 | 9.1 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH73(0.2m) | Judgemental | 0.2 | 8.11.2022 | 3 | <0.3 | 48 | NA | 3.4 | 18 | <0.05 | 2.5 | 5.1 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH74(0.2m) | Judgemental | 0.2 | 8.11.2022 | 9 | <0.3 | 64 | NA | 1.3 | 36 | <0.05 | 2.5 | 9.7 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH75(1.0m) | Judgemental | 1 | 8.11.2022 | 6 | <0.3 | 3.9 | <0.5 | 4.8 | 26 | <0.05 | 37 | 41 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH76(0.2m) | Judgemental | 0.2 | 8.11.2022 | 6 | <0.3 | 52 | NA | 5.2 | 15 | <0.05 | 3 | 17 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH77(0.2m) | Judgemental | 0.2 | 9.11.2022 | 5 | <0.3 | 37 | NA | 6 | 17 | <0.05 | 3.8 | 10 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH78(0.2m) | Judgemental | 0.2 | 9.11.2022 | 4 | <0.3 | 49 | <0.5 | 3.6 | 18 | <0.05 | 2 | 6.9 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH79(0.2m) | Judgemental | 0.2 | 9.11.2022 | 7 | <0.3 | 29 | NA | 3.6 | 16 | <0.05 | 2.5 | 13 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH80(0.6m) | Judgemental | 0.6 | 9.11.2022 | 5 | <0.3 | 41 | NA | 20 | 15 | <0.05 | 12 | 14 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH81(0.8m) | Judgemental | 0.8 | 9.11.2022 | 4 | <0.3 | 28 | NA | 23 | 16 | 0.09 | 12 | 21 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH82(0.2m) | Judgemental | 0.2 | 9.11.2022 | 4 | <0.3 | 60 | 1.3 | 6 | 14 | <0.05 | 3.5 | 9.2 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH83(0.2m) | Judgemental | 0.2 | 9.11.2022 | 5 | <0.3 | 67 | NA | 10 | 21 | <0.05 | 7.1 | 12 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH84(0.1m) | Judgemental | 0.1 | 9.11.2022 | 6 | <0.3 | 110 | <0.5 | 6.9 | 30 | <0.05 | 4.9 | 18 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH85(0.2m) | Judgemental | 0.2 | 9.11.2022 | 4 | <0.3 | 60 | <0.5 | 8.1 | 28 | <0.05 | 4.8 | 18 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH86(0.7m) | Judgemental | 0.7 | 9.11.2022 | 3 | <0.3 | 12 | NA | 9.4 | 6 | <0.05 | 5.6 | 8.9 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH87(0.8m) | Judgemental | 0.8 | 9.11.2022 | 4 | <0.3 | 25 | NA | 20 | 10 | <0.05 | 7 | 17 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH88(0.2m) | Judgemental | 0.2 | 9.11.2022 | 6 | <0.3 | 66 | NA | 7.8 | 21 | <0.05 | 4.5 | 12 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH89(0.2m) | Judgemental | 0.2 | 9.11.2022 | 8 | <0.3 | 28 | 1.2 | 2.3 | 16 | <0.05 | 2.1 | 4.2 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH90(0.2m) | Judgemental | 0.2 | 9.11.2022 | 22 | <0.3 | 20 | NA | 4.1 | 15 | <0.05 | 1.9 | 5.5 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH91(1.0m) | Judgemental | 1 | 9.11.2022 | <1 | <0.3 | 110 | <0.5 | 22 | 3 | <0.05 | 85 | 25 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH92(0.2m) | Judgemental | 0.2 | 9.11.2022 | 6 | <0.3 | 42 | NA | 3 | 18 | <0.05 | 2.7 | 9.9 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH93(0.2m) | Judgemental | 0.2 | 8.11.2022 | 4 | <0.3 | 44 | <0.5 | 3.4 | 19 | <0.05 | 3 | 9.3 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH94(0.2m) | Judgemental | 0.2 | 8.11.2022 | 6 | <0.3 | 100 | <0.5 | 7.2 | 23 | <0.05 | 6.3 | 11 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH95(0.2m) | Judgemental | 0.2 | 8.11.2022 | 4 | <0.3 | 18 | NA | 3.1 | 16 | <0.05 | 2 | 8.4 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH96(0.7m) | Judgemental | 0.7 | 8.11.2022 | 6 | <0.3 | 67 | NA | 16 | 15 | <0.05 | 16 | 18 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH97(0.2m) | Judgemental | 0.2 | 8.11.2022 | 5 | <0.3 | 59 | NA | 2.4 | 27 | <0.05 | 2.2 | 8.1 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BH98(0.2m) | Judgemental | 0.2 | 8.11.2022 | 6 | <0.3 | 69 | <0.5 | 2.8 | 23 | <0.05 | 2.7 | 8.6 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BR1 | - | 0.2 | 7.11.2022 | 4 | <0.3 | 100 | NA | 19 | 20 | <0.05 | 38 | 28 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BR2 | - | 0.2 | 8.11.2022 | 5 | <0.3 | 48 | NA | 2.5 | 2.7 | <0.05 | 2.2 | 7.9 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BR3 | - | 0.2 | 9.11.2022 | 2 | <0.3 | 110 | NA | 38 | 9 | <0.05 | 83 | 42 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-BR4 | - | 0.2 | 9.11.2022 | 5 | <0.3 | 35 | NA | 3.3 | 18 | <0.05 | 3 | 11 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-SR1 | - | 0.2 | 7.11.2022 | 6 | <0.4 | 170 | NA | 35 | 21 | <0.1 | 67 | 43 | <20 | <20 | <20 | <50 | <100 | <100 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-SR2 | - | 0.2 | 8.11.2022 | 14 | <0.4 | 82 | NA | <5 | 42 | <0.1 | 6.3 | 12 | <20 | <20 | <20 | <50 | <100 | <100 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-SR3 | - | 0.2 | 9.11.2022 | 3.4 | <0.4 | 180 | NA | <5 | 11 | <0.1 | 110 | 57 | <20 | <20 | <20 | <50 | <100 | <100 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-SR4 | - | 0.2 | 9.11.2023 | 12 | <0.4 | 44 | NA | 6.6 | 21 | <0.1 | 6.9 | 20 | <20 | <20 | <20 | <50 | <100 | <100 | <0.1 | <0.1 | <0.1 | <0.3 |
| ST-01-1533-WD1 (Sediment) | 10.11.2022 | | 10.11.2022 | 3 | <0.3 | 70 | NA | 16 | 14 | <0.05 | 24 | 34 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | 0.2 | <0.1 | <0.3 |
| ST-01-1533-WD2 (Sediment) | 10.11.2022 | | 10.11.2022 | 2 | <0.3 | 39 | NA | 6.4 | 14 | <0.05 | 2.8 | 11 | <20 | <20 | <25 | <25 | <90 | <120 | <0.1 | 0.3 | <0.1 | <0.3 |
| ST-01-1533-WD1 (Sediment) | 10.01.2023 | | 10.01.2023 | 2 | <0.3 | 56 | 0.7 | 18 | 8 | <0.05 | 31 | 34 | <20 | <40 | <25 | <50 | <180 | <240 | <0.1 | <0.1 | <0.1 | <0.3 |
| | | | | | | | | | | | | | | | | | | | | | | |
| RPD1(Primary: ST-01-1533-BH16 and Secondary: ST-01-1533-BR1) | | | | 29 | NA | 10 | NA | 48 | 58 | NA | 48 | 24 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| RPD2(Primary: ST-01-1533-BH97 and Secondary: ST-01-1533-BR2) | | | | NA | NA | 21 | NA | 4 | 164 | NA | 0 | 2 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| RPD3(Primary: ST-01-1533-BH92 and Secondary: ST-01-1533-BR3) | | | | 100 | NA | 89 | NA | 171 | 67 | NA | 187 | 124 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| RPD4(Primary: ST-01-1533-BH54 and Secondary: ST-01-1533-BR4) | | | | 86 | NA | 103 | NA | 166 | 77 | NA | 185 | 114 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

| | | | | Metals and Metalloids | | | | | | | | | TRH | | | | | | BTEX | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| K2 CONSULTING GROUP | | | | Arsenic | Cadmium | Total Chromium | Chromium VI | Copper | Lead | Mercury (inorganic) | Nickel | Zinc | TRH C6 - C9 | TRH C10-C14 | F1 ((C6-C10)- BTEX) | F2 ( >C10-C16 less Naphthalene) | F3 (>C16-C34) | F4 (>C34-C40) | Benzene | Toluene | Ethylbenzene | Total Xylenes |
| | Sampling strategy | | LOR | 1 | 0.3 | 0.5 | 0.5 | 0.5 | 1 | 0.05 | 0.5 | 2 | 20 | 20 | 25 | 25 | 90 | 120 | 0.1 | 0.1 | 0.1 | 0.3 |
| **Sample ID** | | Depth | Sample Date | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| HIL A (Residential) (NEPM schedule-b1) | | | | 100 | 20 | - | 100 | 6,000 | 300 | 40 | 400 | 7,400 | - | - | - | - | - | - | - | - | - | - |
| HSL A (Low-Density Residential) (NEPM schedule-b1) | | 0- <1m | Clay | - | - | - | - | - | - | - | - | - | - | - | 50 | 280 | - | - | 0.7 | 480 | NL | 110 |
| Management Limit (NEPM schedule-b1) (Fine soils) | | | | - | - | - | - | - | - | - | - | - | - | - | 800 | 1000 | 3,500 | 10,000 | - | - | - | - |
| HSL (Direct soil contact) (NEPM schedule-b1) (Fine soils) | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 100 | 14000 | 4500 | 12000 |
| EILs (NEPM schedule-b1) - Site specific | | | | 100 | - | - | - | 210 | 1100 | - | 180 | 500 | - | - | - | - | - | - | - | - | - | - |
| ESLs (NEPM schedule-b1) | | | | - | - | - | - | - | - | - | - | - | - | - | 180 | 120 | 1,300 | 5,600 | 65 | 105 | 125 | 45 |
| | | | | | | | | | | | | | | | | | | | | | | |
| RPD5(Primary: ST-01-1533-BH16 and Secondary: ST-01-1533-SR1) | | | | 64 | NA | 43 | NA | 12 | 63 | NA | 8 | 65 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| RPD6(Primary: ST-01-1533-BH97 and Secondary: ST-01-1533-SR2) | | | | 95 | NA | 33 | NA | NA | 43 | NA | 96 | 39 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| RPD7(Primary: ST-01-1533-BH92 and Secondary: ST-01-1533-SR3) | | | | 55 | NA | 124 | NA | NA | 48 | NA | 190 | 141 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| RPD8(Primary: ST-01-1533-BH54 and Secondary: ST-01-1533-SR4) | | | | 143 | NA | 86 | NA | 137 | 90 | NA | 167 | 67 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |

K2 CONSULTING GROUP

| | | | | PAH | | | | | | | | | | | | | | | | | OCP | | | | | | | | | OPP | Asbestos |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Acenaphthene | Acenaphthylene | Anthracene | Benz(a)anthracene | Benzo(a)pyrene | Benzo(b,j)fluoranthene | Benzo(g,h,i)perylene | Benzo(k)fluoranthene | Chrysene | Dibenz(a,h)anthracene | Fluoranthene | Fluorene | Indeno(1,2,3-cd)pyrene | Naphthalene | Phenanthrene | Pyrene | PAH (Total) | Carcinogenic PAHs as B(a)P TEQ | DDT+DDE+DDD | Aldrin & Dieldrin | Total Chlordane | Total Endosulfan | Endrin | Heptachlor | Hexachlorobenzene | Methoxychlor | Total PCB | Chlorpyriphos | Asbestos (50 g) |
| | Sampling strategy | | LOR | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.80 | 0.20 | 0.10 | 0.10 | 0.10 | 0.10 | 0.20 | 0.10 | 0.10 | 0.10 | 1.00 | 0.20 | N |
| **Sample ID** | | **Depth** | Sample Date | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | |
| HIL A (Residential) (NEPM schedule-b1) | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 300 | 3 | 240 | 6 | 50 | 270 | 10 | 6 | 10 | 300 | | 160 | |
| HSL A (Low-Density Residential) (NEPM schedule-b1) | | 0- <1m | Clay | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | - | - | - | - | - | - | - | - | - | - | - | - | | - | |
| Management Limit (NEPM schedule-b1) (Fine soils) | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | |
| HSL (Direct soil contact) (NEPM schedule-b1) (Fine soils) | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | 1400 | - | - | - | - | - | - | - | - | - | - | - | - | | - | |
| EILs (NEPM schedule-b1) - Site specific | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | 170 | - | - | - | - | - | - | - | - | - | - | - | - | | - | |
| ESLs (NEPM schedule-b1) | | | | - | - | - | - | 1.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | |
| ST-01-1492-BH01 | Targeted | 0.2 | 27.06.2022 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.8 | <0.5 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.2 | NAD |
| ST-01-1492-BH01 | Targeted | 0.7 | 27.06.2022 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.8 | <0.5 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.2 | NAD |
| ST-01-1492-BH01 | Targeted | 1 | 27.06.2022 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.8 | <0.5 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.2 | NAD |
| ST-01-1492-BH02 | Targeted | 0.2 | 27.06.2022 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.8 | <0.5 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.2 | NAD |
| ST-01-1492-BH02 | Targeted | 0.4 | 27.06.2022 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.8 | <0.5 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.2 | NAD |
| ST-01-1492-BH03 | Targeted | 0.2 | 27.06.2022 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.8 | <0.5 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.2 | NAD |
| ST-01-1492-BH03 | Targeted | 0.5 | 27.06.2022 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.8 | <0.5 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.2 | NAD |
| ST-01-1492-BH04 | Targeted | 0.2 | 27.06.2022 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.8 | <0.5 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.2 | NAD |
| ST-01-1492-BH04 | Targeted | 0.4 | 27.06.2022 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.8 | <0.5 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.2 | NAD |
| ST-01-1492-BH07 | Targeted | 0.2 | 27.06.2022 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.8 | <0.5 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.2 | NAD |
| ST-01-1492-BH07 | Targeted | 0.4 | 27.06.2022 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.8 | <0.5 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.2 | NAD |
| ST-01-1492-BH08 | Targeted | 0.2 | 27.06.2022 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.8 | <0.5 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.2 | NAD |
| ST-01-1492-BH08 | Targeted | 0.4 | 27.06.2022 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.8 | <0.5 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.2 | NAD |
| ST-01-1492-BH09 | Targeted | 0.2 | 27.06.2022 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.8 | <0.5 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.2 | NAD |
| ST-01-1492-BH10 | Targeted | 0.2 | 27.06.2022 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.8 | <0.5 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.2 | NAD |
| ST-01-1492-BH05 | Targeted | 0.2 | 27.06.2022 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.8 | <0.5 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.2 | NAD |
| ST-01-1492-BH05 | Targeted | 0.4 | 27.06.2022 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.8 | <0.5 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.2 | NAD |
| ST-01-1492-SS01 | Targeted | surface sample | 27.06.2022 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.8 | <0.5 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.2 | NAD |
| ST-01-1492-SS02 | Targeted | surface sample | 27.06.2022 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.8 | <0.5 | <0.5 | <0.5 | <1 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <1 | <0.5 | NAD |
| ST-01-1492-SS03 | Targeted | surface sample | 27.06.2022 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.8 | <0.5 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.2 | NAD |
| ST-01-1533-BH11(0.2m) | Systematic | 0.2 | 7.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD |
| ST-01-1533-BH12(0.7m) | Systematic | 0.7 | 7.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD |
| ST-01-1533-BH13(0.2m) | Systematic | 0.2 | 7.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD |
| ST-01-1533-BH14(0.2m) | Systematic | 0.2 | 7.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD |
| ST-01-1533-BH15(0.5m) | Systematic | 0.5 | 7.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD |
| ST-01-1533-BH16(0.2m) | Systematic | 0.2 | 7.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD |
| ST-01-1533-BH17(0.7m) | Systematic | 0.7 | 7.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD |
| ST-01-1533-BH18(0.2m) | Systematic | 0.2 | 7.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD |
| ST-01-1533-BH19(0.2m) | Systematic | 0.2 | 7.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD |
| ST-01-1533-BH20(0.2m) | Systematic | 0.2 | 7.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | 0.4 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD |
| ST-01-1533-BH21(0.5m) | Systematic | 0.5 | 7.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD |
| ST-01-1533-BH22(0.2m) | Systematic | 0.2 | 7.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD |
| ST-01-1533-BH23(0.2m) | Systematic | 0.2 | 7.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD |
| ST-01-1533-BH24(0.2m) | Systematic | 0.2 | 7.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD |
| ST-01-1533-BH25(0.2m) | Systematic | 0.2 | 7.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD |
| ST-01-1533-BH26(surface sample) | Systematic | surface sample | 7.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD |
| ST-01-1533-BH27(0.2m) | Systematic | 0.2 | 10.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD |
| ST-01-1533-BH28(0.4m) | Systematic | 0.4 | 7.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD |
| ST-01-1533-BH29(0.5m) | Systematic | 0.5 | 10.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD |
| ST-01-1533-BH30(0.2m) | Systematic | 0.2 | 9.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD |
| ST-01-1533-BH31(0.2m) | Systematic | 0.2 | 9.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD |
| ST-01-1533-BH32(0.2m) | Systematic | 0.2 | 8.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD |
| ST-01-1533-BH33(0.2m) | Systematic | 0.2 | 8.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD |
| ST-01-1533-BH34(0.2m) | Systematic | 0.2 | 8.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD |
| ST-01-1533-BH35(0.2m) | Systematic | 0.2 | 7.11.200 | <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 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD |
| ST-01-1533-BH36(0.6m) | Systematic | 0.6 | 7.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD |
| ST-01-1533-BH37(0.6m) | Systematic | 0.6 | 9.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD |
| ST-01-1533-BH38(0.2m) | Systematic | 0.2 | 9.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD |
| ST-01-1533-BH39(0.2m) | Systematic | 0.2 | 9.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD |
| ST-01-1533-BH40(0.2m) | Judgemental | 0.2 | 7.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD |
| ST-01-1533-BH41(0.5m) | Judgemental | 0.5 | 7.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD |
| ST-01-1533-BH42(0.2m) | Judgemental | 0.2 | 7.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD |
| ST-01-1533-BH43(0.2m) | Judgemental | 0.2 | 9.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD |
| ST-01-1533-BH44(0.2m) | Judgemental | 0.2 | 9.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD |
| ST-01-1533-BH45(0.2m) | Judgemental | 0.2 | 9.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD |
| ST-01-1533-BH46(0.2m) | Judgemental | 0.2 | 9.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD |
| ST-01-1533-BH47(0.7m) | Judgemental | 0.7 | 8.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD |
| ST-01-1533-BH48(0.1m) | Judgemental | 0.1 | 8.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD |
| ST-01-1533-BH49(0.5m) | Judgemental | 0.5 | 8.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD |
| ST-01-1533-BH50(0.2m) | Judgemental | 0.2 | 8.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD |
| ST-01-1533-BH51(0.2m) | Judgemental | 0.2 | 8.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD |
| ST-01-1533-BH52(0.7m) | Judgemental | 0.7 | 8.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD |
| ST-01-1533-BH53(0.2m) | Judgemental | 0.2 | 8.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD |
| ST-01-1533-BH54(0.2m) | Judgemental | 0.2 | 9.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD |
| ST-01-1533-BH55(0.7m) | Judgemental | 0.7 | 9.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD |

NSW 2580

K2 CONSULTING GROUP

| | | | | PAH | | | | | | | | | | | | | | | | | | OCP | | | | | | | | | | OPP | Asbestos |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Acenaphthene | Acenaphthylene | Anthracene | Benz(a)anthracene | Benzo(a)pyrene | Benzo(b)fluoranthene | Benzo(g,h,i)perylene | Benzo(k)fluoranthene | Chrysene | Dibenz(a,h)anthracene | Fluoranthene | Fluorene | Indeno(1,2,3-cd)pyrene | Naphthalene | Phenanthrene | Pyrene | PAH (Total) | Carcinogenic PAHs as B(a)P TEQ | DDT+DDE+DDD | Aldrin & Dieldrin | Total Chlordane | Total Endosulfan | Endrin | Heptachlor | Hexachlorobenze ne | Methoxychlor | Total PCB | Chlorpyriphos | Asbestos (50 g) | |
| | Sampling strategy | | LOR | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.80 | 0.20 | 0.10 | 0.10 | 0.10 | 0.10 | 0.20 | 0.10 | 0.10 | 0.10 | 1.00 | 0.20 | N | |
| **Sample ID** | | Depth | Sample Date | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | | |
| HIL A (Residential) (NEPM schedule-b1) | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 300 | 3 | 240 | 6 | 50 | 270 | 10 | 6 | 10 | 300 | | 160 | | |
| HSL A (Low-Density Residential) (NEPM schedule-b1) | | 0- <1m | Clay | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | - | - | - | - | - | - | - | - | - | - | - | - | | - | | |
| Management Limit (NEPM schedule-b1) (Fine soils) | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | | |
| HSL (Direct soil contact) (NEPM schedule-b1) (Fine soils) | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | 1400 | - | - | - | - | - | - | - | - | - | - | - | - | | - | | |
| EILs (NEPM schedule-b1) - Site specific | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | 170 | - | - | - | - | - | - | - | - | - | - | - | - | | - | | |
| ESLs (NEPM schedule-b1) | | | | - | - | - | - | 1.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | | |
| ST-01-1533-BH56(0.2m) | Judgemental | 0.2 | 9.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD | |
| ST-01-1533-BH57(0.2m) | Judgemental | 0.2 | 9.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD | |
| ST-01-1533-BH58(0.2m) | Judgemental | 0.2 | 9.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD | |
| ST-01-1533-BH59(0.2m) | Judgemental | 0.2 | 9.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD | |
| ST-01-1533-BH60(0.2m) | Judgemental | 0.2 | 9.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD | |
| ST-01-1533-BH61(0.5m) | Judgemental | 0.5 | 9.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD | |
| ST-01-1533-BH62(0.2m) | Judgemental | 0.2 | 9.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD | |
| ST-01-1533-BH63(0.2m) | Judgemental | 0.2 | 8.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD | |
| ST-01-1533-BH64(0.2m) | Judgemental | 0.2 | 8.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD | |
| ST-01-1533-BH65(0.9m) | Judgemental | 0.9 | 8.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD | |
| ST-01-1533-BH66(0.2m) | Judgemental | 0.2 | 8.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD | |
| ST-01-1533-BH67(0.2m) | Judgemental | 0.2 | 8.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD | |
| ST-01-1533-BH68(0.6m) | Judgemental | 0.6 | 8.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD | |
| ST-01-1533-BH69(0.2m) | Judgemental | 0.2 | 8.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD | |
| ST-01-1533-BH70(0.2m) | Judgemental | 0.2 | 8.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD | |
| ST-01-1533-BH71(0.2m) | Judgemental | 0.2 | 8.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD | |
| ST-01-1533-BH72(0.8m) | Judgemental | 0.8 | 8.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD | |
| ST-01-1533-BH73(0.2m) | Judgemental | 0.2 | 8.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD | |
| ST-01-1533-BH74(0.2m) | Judgemental | 0.2 | 8.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD | |
| ST-01-1533-BH75(1.0m) | Judgemental | 1 | 8.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD | |
| ST-01-1533-BH76(0.2m) | Judgemental | 0.2 | 8.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD | |
| ST-01-1533-BH77(0.2m) | Judgemental | 0.2 | 9.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD | |
| ST-01-1533-BH78(0.2m) | Judgemental | 0.2 | 9.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD | |
| ST-01-1533-BH79(0.2m) | Judgemental | 0.2 | 9.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD | |
| ST-01-1533-BH80(0.6m) | Judgemental | 0.6 | 9.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD | |
| ST-01-1533-BH81(0.8m) | Judgemental | 0.8 | 9.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD | |
| ST-01-1533-BH82(0.2m) | Judgemental | 0.2 | 9.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD | |
| ST-01-1533-BH83(0.2m) | Judgemental | 0.2 | 9.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD | |
| ST-01-1533-BH84(0.1m) | Judgemental | 0.1 | 9.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD | |
| ST-01-1533-BH85(0.2m) | Judgemental | 0.2 | 9.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD | |
| ST-01-1533-BH86(0.7m) | Judgemental | 0.7 | 9.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD | |
| ST-01-1533-BH87(0.8m) | Judgemental | 0.8 | 9.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD | |
| ST-01-1533-BH88(0.2m) | Judgemental | 0.2 | 9.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD | |
| ST-01-1533-BH89(0.2m) | Judgemental | 0.2 | 9.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD | |
| ST-01-1533-BH90(0.2m) | Judgemental | 0.2 | 9.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD | |
| ST-01-1533-BH91(1.0m) | Judgemental | 1 | 9.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD | |
| ST-01-1533-BH92(0.2m) | Judgemental | 0.2 | 9.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD | |
| ST-01-1533-BH93(0.2m) | Judgemental | 0.2 | 8.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD | |
| ST-01-1533-BH94(0.2m) | Judgemental | 0.2 | 8.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD | |
| ST-01-1533-BH95(0.2m) | Judgemental | 0.2 | 8.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD | |
| ST-01-1533-BH96(0.7m) | Judgemental | 0.7 | 8.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | | <0.2 | NAD | |
| ST-01-1533-BH97(0.2m) | Judgemental | 0.2 | 8.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD | |
| ST-01-1533-BH98(0.2m) | Judgemental | 0.2 | 8.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD | |
| ST-01-1533-BR1 | - | 0.2 | 7.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD | |
| ST-01-1533-BR2 | - | 0.2 | 8.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD | |
| ST-01-1533-BR3 | - | 0.2 | 9.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD | |
| ST-01-1533-BR4 | - | 0.2 | 9.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <1 | <0.2 | NAD | |
| ST-01-1533-SR1 | - | 0.2 | 7.11.2022 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.8 | <0.8 | <0.05 | <0.05 | <0.1 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.2 | NAD | |
| ST-01-1533-SR2 | - | 0.2 | 8.11.2022 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.8 | <0.5 | <0.05 | <0.05 | <0.1 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.2 | NAD | |
| ST-01-1533-SR3 | - | 0.2 | 9.11.2022 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.8 | <0.5 | <0.05 | <0.05 | <0.1 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.2 | NAD | |
| ST-01-1533-SR4 | - | 0.2 | 9.11.2023 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.8 | <0.5 | <0.05 | <0.05 | <0.1 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.2 | NAD | |
| ST-01-1533-WD1 (Sediment) | 10.11.2022 | | 10.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <0.2 | NAD | | |
| ST-01-1533-WD2 (Sediment) | 10.11.2022 | | 10.11.2022 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <0.2 | NAD | NA | |
| ST-01-1533-WD1 (Sediment) | 10.01.2023 | | 10.01.2023 | <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 | <0.8 | <0.2 | <0.1 | <0.3 | <0.1 | <0.4 | <0.4 | <0.2 | <0.2 | <0.2 | <0.2 | NAD | NA | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | NA | NA | NA | |
| RPD1(Primary: ST-01-1533-BH16 and Secondary: ST-01-1533-BR1) | | | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| RPD2(Primary: ST-01-1533-BH97 and Secondary: ST-01-1533-BR2) | | | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | | |
| RPD3(Primary: ST-01-1533-BH92 and Secondary: ST-01-1533-BR3) | | | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| RPD4(Primary: ST-01-1533-BH54 and Secondary: ST-01-1533-BR4) | | | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

| | | | | PAH | | | | | | | | | | | | | | | | | | | OCP | | | | | | | | | | OPP | Asbestos |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| K2 CONSULTING GROUP | | | | Acenaphthene | Acenaphthylene | Anthracene | Benz(a)anthracene | Benzo(a)pyrene | Benzo(b,j)fluoranthene | Benzo(g,h,i)perylene | Benzo(k)fluoranthene | Chrysene | Dibenz(a,h)anthracene | Fluoranthene | Fluorene | Indeno(1,2,3-c,d)pyrene | Naphthalene | Phenanthrene | Pyrene | PAH (Total) | Carcinogenic PAHs as B(a)P TEQ | DDT+DDE+DDD | Aldrin & Dieldrin | Total Chlordane | Total Endosulfan | Endrin | Heptachlor | Hexachlorobenze ne | Methoxychlor | Total PCB | Chlorpyriphos | Asbestos (50 g) | |
| | Sampling strategy | | LOR | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.80 | 0.20 | 0.10 | 0.10 | 0.10 | 0.10 | 0.20 | 0.10 | 0.10 | 0.10 | 1.00 | 0.20 | N |
| **Sample ID** | | Depth | Sample Date | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | |
| HIL A (Residential) (NEPM schedule-b1) | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 300 | 3 | 240 | 6 | 50 | 270 | 10 | 6 | 10 | 300 | | 160 | |
| HSL A (Low-Density Residential) (NEPM schedule-b1) | | 0- <1m | Clay | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | |
| Management Limit (NEPM schedule-b1) (Fine soils) | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | |
| HSL (Direct soil contact) (NEPM schedule-b1) (Fine soils) | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | 1400 | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | |
| EILs (NEPM schedule-b1) - Site specific | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | 170 | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | |
| ESLs (NEPM schedule-b1) | | | | - | - | - | - | 1.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | NA | NA | NA |
| RPD5(Primary: ST-01-1533-BH16 and Secondary: ST-01-1533-SR1) | | | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| RPD6(Primary: ST-01-1533-BH97 and Secondary: ST-01-1533-SR2) | | | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | | |
| RPD7(Primary: ST-01-1533-BH92 and Secondary: ST-01-1533-SR3) | | | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | | |
| RPD8(Primary: ST-01-1533-BH54 and Secondary: ST-01-1533-SR4) | | | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**Appendix VII**

**Laboratory Reports**

# ANALYTICAL REPORT

Accreditation No. 2562

## CLIENT DETAILS

| | |
|---|---|
| Contact | Kannan Kaliappan |
| Client | K2 CONSULTING GROUP |
| Address | SUITE 222, 20B LEXINGTON DRIVE<br>BELLA VISTA NSW 2153 |
| Telephone | 61 8 00 523 000 |
| Facsimile | (Not specified) |
| Email | kannan@k2consultinggroup.com.au |
| Project | **ST-01-1533 (515 Crookwell Road, Kingsdal** |
| Order Number | **ST-01-1533** |
| Samples | 99 |

## LABORATORY DETAILS

| | |
|---|---|
| Manager | Huong Crawford |
| Laboratory | SGS Alexandria Environmental |
| Address | Unit 16, 33 Maddox St<br>Alexandria NSW 2015 |
| Telephone | +61 2 8594 0400 |
| Facsimile | +61 2 8594 0499 |
| Email | au.environmental.sydney@sgs.com |
| SGS Reference | **SE239041 R1** |
| Date Received | 11/11/2022 |
| Date Reported | 24/11/2022 |

## COMMENTS

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

This report cancels and supersedes the report No.SE239041 R0 dated 23/11/22 issued by SGS Environment, Health and Safety due to amended sample IDs.

## SIGNATORIES

**Akheeqar BENIAMEEN**
Chemist

**Dong LIANG**
Metals/Inorganics Team Leader

**Huong CRAWFORD**
Production Manager

**Kamrul AHSAN**
Senior Chemist

**Ly Kim HA**
Organic Section Head

**Shane MCDERMOTT**
Inorganic/Metals Chemist

## VOC's in Soil [AN433] Tested: 16/11/2022

| PARAMETER | UOM | LOR | BH11(0.2m) SOIL - 7/11/2022 SE239041.001 | BH12(0.7m) SOIL - 7/11/2022 SE239041.002 | BH13(0.2m) SOIL - 7/11/2022 SE239041.003 | BH14(0.2m) SOIL - 7/11/2022 SE239041.004 | BH15(0.5m) SOIL - 7/11/2022 SE239041.005 |
|---|---|---|---|---|---|---|---|
| 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 | BH16(0.2m) SOIL - 7/11/2022 SE239041.006 | BH17(0.7m) SOIL - 7/11/2022 SE239041.007 | BH18(0.2m) SOIL - 7/11/2022 SE239041.008 | BH19(0.2m) SOIL - 7/11/2022 SE239041.009 | BH20(0.2m) SOIL - 10/11/2022 SE239041.010 |
|---|---|---|---|---|---|---|---|
| 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 | BH21(0.5m) SOIL - 7/11/2022 SE239041.011 | BH22(0.2m) SOIL - 7/11/2022 SE239041.012 | BH23(0.2m) SOIL - 10/11/2022 SE239041.013 | BH24(0.2m) SOIL - 7/11/2022 SE239041.014 | BH25(0.2m) SOIL - 7/11/2022 SE239041.015 |
|---|---|---|---|---|---|---|---|
| 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 | BH26(surface sample) SOIL - 7/11/2022 SE239041.016 | BH27(0.2m) SOIL - 10/11/2022 SE239041.017 | BH28(0.4m) SOIL - 7/11/2022 SE239041.018 | BH29(0.5m) SOIL - 10/11/2022 SE239041.019 | BH30(0.2m) SOIL - 9/11/2022 SE239041.020 |
|---|---|---|---|---|---|---|---|
| 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: 16/11/2022 (continued)

| PARAMETER | UOM | LOR | BH31(0.2m) SOIL - 9/11/2022 SE239041.021 | BH32(0.2m) SOIL - 8/11/2022 SE239041.022 | BH33(0.2m) SOIL - 8/11/2022 SE239041.023 | BH34(0.2m) SOIL - 8/11/2022 SE239041.024 | BH35(0.2m) SOIL - 7/11/2022 SE239041.025 |
|---|---|---|---|---|---|---|---|
| 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 | BH36(0.6m) SOIL - 7/11/2022 SE239041.026 | BH37(0.6m) SOIL - 9/11/2022 SE239041.027 | BH38(0.2m) SOIL - 9/11/2022 SE239041.028 | BH39(0.2m) SOIL - 9/11/2022 SE239041.029 | BH40(0.2m) SOIL - 7/11/2022 SE239041.030 |
|---|---|---|---|---|---|---|---|
| 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 | BH41(0.5m) SOIL - 7/11/2022 SE239041.031 | BH42(0.2m) SOIL - 7/11/2022 SE239041.032 | BH43(0.2m) SOIL - 9/11/2022 SE239041.033 | BH44(0.2m) SOIL - 9/11/2022 SE239041.034 | BH45(0.2m) SOIL - 9/11/2022 SE239041.035 |
|---|---|---|---|---|---|---|---|
| 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 | BH46(0.2m) SOIL - 9/11/2022 SE239041.036 | BH47(0.7m) SOIL - 8/11/2022 SE239041.037 | BH48(0.1m) SOIL - 8/11/2022 SE239041.038 | BH49(0.5m) SOIL - 8/11/2022 SE239041.039 | BH50(0.2m) SOIL - 8/11/2022 SE239041.040 |
|---|---|---|---|---|---|---|---|
| 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: 16/11/2022 (continued)

| PARAMETER | UOM | LOR | BH51(0.2m) SOIL - 8/11/2022 SE239041.041 | BH52(0.7m) SOIL - 8/11/2022 SE239041.042 | BH53(0.2m) SOIL - 8/11/2022 SE239041.043 | BH54(0.2m) SOIL - 9/11/2022 SE239041.044 | BH55(0.7m) SOIL - 9/11/2022 SE239041.045 |
|---|---|---|---|---|---|---|---|
| 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 | BH56(0.2m) SOIL - 9/11/2022 SE239041.046 | BH57(0.2m) SOIL - 9/11/2022 SE239041.047 | BH58(0.2m) SOIL - 9/11/2022 SE239041.048 | BH59(0.2m) SOIL - 9/11/2022 SE239041.049 | BH60(0.2m) SOIL - 9/11/2022 SE239041.050 |
|---|---|---|---|---|---|---|---|
| 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 | BH61(0.5m) SOIL - 9/11/2022 SE239041.051 | BH62(0.2m) SOIL - 9/11/2022 SE239041.052 | BH63(0.2m) SOIL - 7/11/2022 SE239041.053 | BH64(0.2m) SOIL - 8/11/2022 SE239041.054 | BH65(0.9m) SOIL - 8/11/2022 SE239041.055 |
|---|---|---|---|---|---|---|---|
| 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 | BH66(0.2m) SOIL - 8/11/2022 SE239041.056 | BH67(0.2m) SOIL - 8/11/2022 SE239041.057 | BH68(0.6m) SOIL - 8/11/2022 SE239041.058 | BH69(0.2m) SOIL - 8/11/2022 SE239041.059 | BH70(0.2m) SOIL - 8/11/2022 SE239041.060 |
|---|---|---|---|---|---|---|---|
| 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: 16/11/2022 (continued)

| PARAMETER | UOM | LOR | BH71(0.2m) SOIL - 8/11/2022 SE239041.061 | BH72(0.8m) SOIL - 8/11/2022 SE239041.062 | BH73(0.2m) SOIL - 8/11/2022 SE239041.063 | BH74(0.2m) SOIL - 8/11/2022 SE239041.064 | BH75(1.0m) SOIL - 8/11/2022 SE239041.065 |
|---|---|---|---|---|---|---|---|
| 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 | BH76(0.2m) SOIL - 8/11/2022 SE239041.066 | BH77(0.2m) SOIL - 8/11/2022 SE239041.067 | BH78(0.2m) SOIL - 9/11/2022 SE239041.068 | BH79(0.2m) SOIL - 9/11/2022 SE239041.069 | BH80(0.6m) SOIL - 9/11/2022 SE239041.070 |
|---|---|---|---|---|---|---|---|
| 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 | BH81(0.8m) SOIL - 9/11/2022 SE239041.071 | BH82(0.2m) SOIL - 9/11/2022 SE239041.072 | BH83(0.2m) SOIL - 9/11/2022 SE239041.073 | BH84(0.1m) SOIL - 9/11/2022 SE239041.074 | BH85(0.2m) SOIL - 9/11/2022 SE239041.075 |
|---|---|---|---|---|---|---|---|
| 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 | BH86(0.7m) SOIL - 9/11/2022 SE239041.076 | BH87(0.8m) SOIL - 9/11/2022 SE239041.077 | BH88(0.2m) SOIL - 9/11/2022 SE239041.078 | BH89(0.2m) SOIL - 9/11/2022 SE239041.079 | BH90(0.2m) SOIL - 9/11/2022 SE239041.080 |
|---|---|---|---|---|---|---|---|
| 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: 16/11/2022 (continued)

| PARAMETER | UOM | LOR | BH91(1.0m) SOIL - 9/11/2022 SE239041.081 | BH92(0.2m) SOIL - 9/11/2022 SE239041.082 | BH93(0.2m) SOIL - 8/11/2022 SE239041.083 | BH94(0.2m) SOIL - 8/11/2022 SE239041.084 | BH95(0.2m) SOIL - 8/11/2022 SE239041.085 |
|---|---|---|---|---|---|---|---|
| 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 | BH96(0.7m) SOIL - 8/11/2022 SE239041.086 | BH97(0.2m) SOIL - 8/11/2022 SE239041.087 | BH98(0.2m) SOIL - 8/11/2022 SE239041.088 | BR1 SOIL - 7/11/2022 SE239041.089 | BR2 SOIL - 8/11/2022 SE239041.090 |
|---|---|---|---|---|---|---|---|
| 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 | BR3 SOIL - 9/11/2022 SE239041.091 | BR4 SOIL - 9/11/2022 SE239041.092 | WD1 SOIL - 10/11/2022 SE239041.093 | WD2 SOIL - 10/11/2022 SE239041.094 | TRIP BLANK SOIL - 10/11/2022 SE239041.098 |
|---|---|---|---|---|---|---|---|
| Benzene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Toluene | mg/kg | 0.1 | <0.1 | <0.1 | **0.2** | **0.3** | <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 | TRP SPIKE SOIL - 10/11/2022 SE239041.099 |
|---|---|---|---|
| Benzene | mg/kg | 0.1 | [112%] |
| Toluene | mg/kg | 0.1 | [111%] |
| Ethylbenzene | mg/kg | 0.1 | [108%] |
| m/p-xylene | mg/kg | 0.2 | [93%] |
| o-xylene | mg/kg | 0.1 | [92%] |
| Total Xylenes* | mg/kg | 0.3 | - |
| Total BTEX* | mg/kg | 0.6 | - |
| Naphthalene (VOC)* | mg/kg | 0.1 | - |

## Volatile Petroleum Hydrocarbons in Soil [AN433] Tested: 16/11/2022

| PARAMETER | UOM | LOR | BH11(0.2m) SOIL - 7/11/2022 SE239041.001 | BH12(0.7m) SOIL - 7/11/2022 SE239041.002 | BH13(0.2m) SOIL - 7/11/2022 SE239041.003 | BH14(0.2m) SOIL - 7/11/2022 SE239041.004 | BH15(0.5m) SOIL - 7/11/2022 SE239041.005 |
|---|---|---|---|---|---|---|---|
| TRH C6-C10 raw | µg/L | 0.05 | **7.4** | **25** | **10** | **1.3** | **22** |
| TRH C6-C9 raw | µg/L | 0.05 | **6.1** | **22** | **9.2** | **1.1** | **21** |
| 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 | BH16(0.2m) SOIL - 7/11/2022 SE239041.006 | BH17(0.7m) SOIL - 7/11/2022 SE239041.007 | BH18(0.2m) SOIL - 7/11/2022 SE239041.008 | BH19(0.2m) SOIL - 7/11/2022 SE239041.009 | BH20(0.2m) SOIL - 10/11/2022 SE239041.010 |
|---|---|---|---|---|---|---|---|
| TRH C6-C10 raw | µg/L | 0.05 | **3.8** | **2.8** | <0.050 | **6.7** | **8.1** |
| TRH C6-C9 raw | µg/L | 0.05 | **3.4** | **2.4** | <0.050 | **6.0** | **7.4** |
| 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 | BH21(0.5m) SOIL - 7/11/2022 SE239041.011 | BH22(0.2m) SOIL - 7/11/2022 SE239041.012 | BH23(0.2m) SOIL - 10/11/2022 SE239041.013 | BH24(0.2m) SOIL - 7/11/2022 SE239041.014 | BH25(0.2m) SOIL - 7/11/2022 SE239041.015 |
|---|---|---|---|---|---|---|---|
| TRH C6-C10 raw | µg/L | 0.05 | **3.9** | **4.5** | **0.94** | **0.97** | **7.8** |
| TRH C6-C9 raw | µg/L | 0.05 | **3.5** | **4.0** | **0.68** | **0.85** | **7.2** |
| 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 | BH26(surface sample) SOIL - 7/11/2022 SE239041.016 | BH27(0.2m) SOIL - 10/11/2022 SE239041.017 | BH28(0.4m) SOIL - 7/11/2022 SE239041.018 | BH29(0.5m) SOIL - 10/11/2022 SE239041.019 | BH30(0.2m) SOIL - 9/11/2022 SE239041.020 |
|---|---|---|---|---|---|---|---|
| TRH C6-C10 raw | µg/L | 0.05 | <0.050 | <0.050 | **2.3** | **8.8** | **3.7** |
| TRH C6-C9 raw | µg/L | 0.05 | <0.050 | <0.050 | **2.1** | **8.1** | **2.7** |
| 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 | BH31(0.2m) SOIL - 9/11/2022 SE239041.021 | BH32(0.2m) SOIL - 8/11/2022 SE239041.022 | BH33(0.2m) SOIL - 8/11/2022 SE239041.023 | BH34(0.2m) SOIL - 8/11/2022 SE239041.024 | BH35(0.2m) SOIL - 7/11/2022 SE239041.025 |
|---|---|---|---|---|---|---|---|
| TRH C6-C10 raw | µg/L | 0.05 | **3.5** | **0.97** | **0.25** | <0.050 | **0.34** |
| TRH C6-C9 raw | µg/L | 0.05 | **2.5** | **0.65** | **0.19** | <0.050 | **0.40** |
| 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: 16/11/2022 (continued)

| PARAMETER | UOM | LOR | BH36(0.6m) SOIL - 7/11/2022 SE239041.026 | BH37(0.6m) SOIL - 9/11/2022 SE239041.027 | BH38(0.2m) SOIL - 9/11/2022 SE239041.028 | BH39(0.2m) SOIL - 9/11/2022 SE239041.029 | BH40(0.2m) SOIL - 7/11/2022 SE239041.030 |
|---|---|---|---|---|---|---|---|
| TRH C6-C10 raw | µg/L | 0.05 | **0.11** | **0.45** | **0.069** | <0.050 | **0.071** |
| TRH C6-C9 raw | µg/L | 0.05 | **0.21** | **0.55** | **0.18** | <0.050 | **0.21** |
| 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 | BH41(0.5m) SOIL - 7/11/2022 SE239041.031 | BH42(0.2m) SOIL - 7/11/2022 SE239041.032 | BH43(0.2m) SOIL - 9/11/2022 SE239041.033 | BH44(0.2m) SOIL - 9/11/2022 SE239041.034 | BH45(0.2m) SOIL - 9/11/2022 SE239041.035 |
|---|---|---|---|---|---|---|---|
| TRH C6-C10 raw | µg/L | 0.05 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 |
| TRH C6-C9 raw | µg/L | 0.05 | **0.058** | <0.050 | <0.050 | **0.11** | <0.050 |
| 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 | BH46(0.2m) SOIL - 9/11/2022 SE239041.036 | BH47(0.7m) SOIL - 8/11/2022 SE239041.037 | BH48(0.1m) SOIL - 8/11/2022 SE239041.038 | BH49(0.5m) SOIL - 8/11/2022 SE239041.039 | BH50(0.2m) SOIL - 8/11/2022 SE239041.040 |
|---|---|---|---|---|---|---|---|
| TRH C6-C10 raw | µg/L | 0.05 | <0.050 | **0.49** | <0.050 | **9.1** | **8.4** |
| TRH C6-C9 raw | µg/L | 0.05 | **0.15** | **0.63** | **0.083** | **6.3** | **5.8** |
| 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 | BH51(0.2m) SOIL - 8/11/2022 SE239041.041 | BH52(0.7m) SOIL - 8/11/2022 SE239041.042 | BH53(0.2m) SOIL - 8/11/2022 SE239041.043 | BH54(0.2m) SOIL - 9/11/2022 SE239041.044 | BH55(0.7m) SOIL - 9/11/2022 SE239041.045 |
|---|---|---|---|---|---|---|---|
| TRH C6-C10 raw | µg/L | 0.05 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 |
| TRH C6-C9 raw | µg/L | 0.05 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 |
| 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 | BH56(0.2m) SOIL - 9/11/2022 SE239041.046 | BH57(0.2m) SOIL - 9/11/2022 SE239041.047 | BH58(0.2m) SOIL - 9/11/2022 SE239041.048 | BH59(0.2m) SOIL - 9/11/2022 SE239041.049 | BH60(0.2m) SOIL - 9/11/2022 SE239041.050 |
|---|---|---|---|---|---|---|---|
| TRH C6-C10 raw | µg/L | 0.05 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 |
| TRH C6-C9 raw | µg/L | 0.05 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 |
| 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: 16/11/2022 (continued)

| PARAMETER | UOM | LOR | BH61(0.5m) SOIL - 9/11/2022 SE239041.051 | BH62(0.2m) SOIL - 9/11/2022 SE239041.052 | BH63(0.2m) SOIL - 7/11/2022 SE239041.053 | BH64(0.2m) SOIL - 8/11/2022 SE239041.054 | BH65(0.9m) SOIL - 8/11/2022 SE239041.055 |
|---|---|---|---|---|---|---|---|
| TRH C6-C10 raw | µg/L | 0.05 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 |
| TRH C6-C9 raw | µg/L | 0.05 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 |
| 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 | BH66(0.2m) SOIL - 8/11/2022 SE239041.056 | BH67(0.2m) SOIL - 8/11/2022 SE239041.057 | BH68(0.6m) SOIL - 8/11/2022 SE239041.058 | BH69(0.2m) SOIL - 8/11/2022 SE239041.059 | BH70(0.2m) SOIL - 8/11/2022 SE239041.060 |
|---|---|---|---|---|---|---|---|
| TRH C6-C10 raw | µg/L | 0.05 | <0.050 | <0.050 | **3.2** | **4.5** | <0.050 |
| TRH C6-C9 raw | µg/L | 0.05 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 |
| 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 | BH71(0.2m) SOIL - 8/11/2022 SE239041.061 | BH72(0.8m) SOIL - 8/11/2022 SE239041.062 | BH73(0.2m) SOIL - 8/11/2022 SE239041.063 | BH74(0.2m) SOIL - 8/11/2022 SE239041.064 | BH75(1.0m) SOIL - 8/11/2022 SE239041.065 |
|---|---|---|---|---|---|---|---|
| TRH C6-C10 raw | µg/L | 0.05 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 |
| TRH C6-C9 raw | µg/L | 0.05 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 |
| 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 | BH76(0.2m) SOIL - 8/11/2022 SE239041.066 | BH77(0.2m) SOIL - 8/11/2022 SE239041.067 | BH78(0.2m) SOIL - 9/11/2022 SE239041.068 | BH79(0.2m) SOIL - 9/11/2022 SE239041.069 | BH80(0.6m) SOIL - 9/11/2022 SE239041.070 |
|---|---|---|---|---|---|---|---|
| TRH C6-C10 raw | µg/L | 0.05 | <0.050 | <0.050 | **5.0** | **1.2** | <0.050 |
| TRH C6-C9 raw | µg/L | 0.05 | <0.050 | <0.050 | **2.6** | **0.20** | <0.050 |
| 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 | BH81(0.8m) SOIL - 9/11/2022 SE239041.071 | BH82(0.2m) SOIL - 9/11/2022 SE239041.072 | BH83(0.2m) SOIL - 9/11/2022 SE239041.073 | BH84(0.1m) SOIL - 9/11/2022 SE239041.074 | BH85(0.2m) SOIL - 9/11/2022 SE239041.075 |
|---|---|---|---|---|---|---|---|
| TRH C6-C10 raw | µg/L | 0.05 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 |
| TRH C6-C9 raw | µg/L | 0.05 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 |
| 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: 16/11/2022 (continued)

| PARAMETER | UOM | LOR | BH86(0.7m) SOIL - 9/11/2022 SE239041.076 | BH87(0.8m) SOIL - 9/11/2022 SE239041.077 | BH88(0.2m) SOIL - 9/11/2022 SE239041.078 | BH89(0.2m) SOIL - 9/11/2022 SE239041.079 | BH90(0.2m) SOIL - 9/11/2022 SE239041.080 |
|---|---|---|---|---|---|---|---|
| TRH C6-C10 raw | µg/L | 0.05 | <0.050 | **2.8** | **1.5** | <0.050 | <0.050 |
| TRH C6-C9 raw | µg/L | 0.05 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 |
| 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 | BH91(1.0m) SOIL - 9/11/2022 SE239041.081 | BH92(0.2m) SOIL - 9/11/2022 SE239041.082 | BH93(0.2m) SOIL - 8/11/2022 SE239041.083 | BH94(0.2m) SOIL - 8/11/2022 SE239041.084 | BH95(0.2m) SOIL - 8/11/2022 SE239041.085 |
|---|---|---|---|---|---|---|---|
| TRH C6-C10 raw | µg/L | 0.05 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 |
| TRH C6-C9 raw | µg/L | 0.05 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 |
| 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 | BH96(0.7m) SOIL - 8/11/2022 SE239041.086 | BH97(0.2m) SOIL - 8/11/2022 SE239041.087 | BH98(0.2m) SOIL - 8/11/2022 SE239041.088 | BR1 SOIL - 7/11/2022 SE239041.089 | BR2 SOIL - 8/11/2022 SE239041.090 |
|---|---|---|---|---|---|---|---|
| TRH C6-C10 raw | µg/L | 0.05 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 |
| TRH C6-C9 raw | µg/L | 0.05 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 |
| 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 | BR3 SOIL - 9/11/2022 SE239041.091 | BR4 SOIL - 9/11/2022 SE239041.092 | WD1 SOIL - 10/11/2022 SE239041.093 | WD2 SOIL - 10/11/2022 SE239041.094 | TRIP BLANK SOIL - 10/11/2022 SE239041.098 |
|---|---|---|---|---|---|---|---|
| TRH C6-C10 raw | µg/L | 0.05 | <0.050 | <0.050 | <0.050 | **0.27** | <0.050 |
| TRH C6-C9 raw | µg/L | 0.05 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 |
| 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: 16/11/2022

| PARAMETER | UOM | LOR | BH11(0.2m) SOIL - 7/11/2022 SE239041.001 | BH12(0.7m) SOIL - 7/11/2022 SE239041.002 | BH13(0.2m) SOIL - 7/11/2022 SE239041.003 | BH14(0.2m) SOIL - 7/11/2022 SE239041.004 | BH15(0.5m) SOIL - 7/11/2022 SE239041.005 |
|---|---|---|---|---|---|---|---|
| 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 | BH16(0.2m) SOIL - 7/11/2022 SE239041.006 | BH17(0.7m) SOIL - 7/11/2022 SE239041.007 | BH18(0.2m) SOIL - 7/11/2022 SE239041.008 | BH19(0.2m) SOIL - 7/11/2022 SE239041.009 | BH20(0.2m) SOIL - 10/11/2022 SE239041.010 |
|---|---|---|---|---|---|---|---|
| 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 | BH21(0.5m) SOIL - 7/11/2022 SE239041.011 | BH22(0.2m) SOIL - 7/11/2022 SE239041.012 | BH23(0.2m) SOIL - 10/11/2022 SE239041.013 | BH24(0.2m) SOIL - 7/11/2022 SE239041.014 | BH25(0.2m) SOIL - 7/11/2022 SE239041.015 |
|---|---|---|---|---|---|---|---|
| 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: 16/11/2022 (continued)

| PARAMETER | UOM | LOR | BH26(surface sample) SOIL - 7/11/2022 SE239041.016 | BH27(0.2m) SOIL - 10/11/2022 SE239041.017 | BH28(0.4m) SOIL - 7/11/2022 SE239041.018 | BH29(0.5m) SOIL - 10/11/2022 SE239041.019 | BH30(0.2m) SOIL - 9/11/2022 SE239041.020 |
|---|---|---|---|---|---|---|---|
| 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 | BH31(0.2m) SOIL - 9/11/2022 SE239041.021 | BH32(0.2m) SOIL - 8/11/2022 SE239041.022 | BH33(0.2m) SOIL - 8/11/2022 SE239041.023 | BH34(0.2m) SOIL - 8/11/2022 SE239041.024 | BH35(0.2m) SOIL - 7/11/2022 SE239041.025 |
|---|---|---|---|---|---|---|---|
| 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 | BH36(0.6m) SOIL - 7/11/2022 SE239041.026 | BH37(0.6m) SOIL - 9/11/2022 SE239041.027 | BH38(0.2m) SOIL - 9/11/2022 SE239041.028 | BH39(0.2m) SOIL - 9/11/2022 SE239041.029 | BH40(0.2m) SOIL - 7/11/2022 SE239041.030 |
|---|---|---|---|---|---|---|---|
| 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: 16/11/2022 (continued)

| PARAMETER | UOM | LOR | BH41(0.5m) SOIL - 7/11/2022 SE239041.031 | BH42(0.2m) SOIL - 7/11/2022 SE239041.032 | BH43(0.2m) SOIL - 9/11/2022 SE239041.033 | BH44(0.2m) SOIL - 9/11/2022 SE239041.034 | BH45(0.2m) SOIL - 9/11/2022 SE239041.035 |
|---|---|---|---|---|---|---|---|
| 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 | BH46(0.2m) SOIL - 9/11/2022 SE239041.036 | BH47(0.7m) SOIL - 8/11/2022 SE239041.037 | BH48(0.1m) SOIL - 8/11/2022 SE239041.038 | BH49(0.5m) SOIL - 8/11/2022 SE239041.039 | BH50(0.2m) SOIL - 8/11/2022 SE239041.040 |
|---|---|---|---|---|---|---|---|
| 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 | BH51(0.2m) SOIL - 8/11/2022 SE239041.041 | BH52(0.7m) SOIL - 8/11/2022 SE239041.042 | BH53(0.2m) SOIL - 8/11/2022 SE239041.043 | BH54(0.2m) SOIL - 9/11/2022 SE239041.044 | BH55(0.7m) SOIL - 9/11/2022 SE239041.045 |
|---|---|---|---|---|---|---|---|
| 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: 16/11/2022 (continued)

| PARAMETER | UOM | LOR | BH56(0.2m) SOIL - 9/11/2022 SE239041.046 | BH57(0.2m) SOIL - 9/11/2022 SE239041.047 | BH58(0.2m) SOIL - 9/11/2022 SE239041.048 | BH59(0.2m) SOIL - 9/11/2022 SE239041.049 | BH60(0.2m) SOIL - 9/11/2022 SE239041.050 |
|---|---|---|---|---|---|---|---|
| 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 | BH61(0.5m) SOIL - 9/11/2022 SE239041.051 | BH62(0.2m) SOIL - 9/11/2022 SE239041.052 | BH63(0.2m) SOIL - 7/11/2022 SE239041.053 | BH64(0.2m) SOIL - 8/11/2022 SE239041.054 | BH65(0.9m) SOIL - 8/11/2022 SE239041.055 |
|---|---|---|---|---|---|---|---|
| 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 | BH66(0.2m) SOIL - 8/11/2022 SE239041.056 | BH67(0.2m) SOIL - 8/11/2022 SE239041.057 | BH68(0.6m) SOIL - 8/11/2022 SE239041.058 | BH69(0.2m) SOIL - 8/11/2022 SE239041.059 | BH70(0.2m) SOIL - 8/11/2022 SE239041.060 |
|---|---|---|---|---|---|---|---|
| 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: 16/11/2022 (continued)

| PARAMETER | UOM | LOR | BH71(0.2m) SOIL - 8/11/2022 SE239041.061 | BH72(0.8m) SOIL - 8/11/2022 SE239041.062 | BH73(0.2m) SOIL - 8/11/2022 SE239041.063 | BH74(0.2m) SOIL - 8/11/2022 SE239041.064 | BH75(1.0m) SOIL - 8/11/2022 SE239041.065 |
|---|---|---|---|---|---|---|---|
| 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 | BH76(0.2m) SOIL - 8/11/2022 SE239041.066 | BH77(0.2m) SOIL - 8/11/2022 SE239041.067 | BH78(0.2m) SOIL - 9/11/2022 SE239041.068 | BH79(0.2m) SOIL - 9/11/2022 SE239041.069 | BH80(0.6m) SOIL - 9/11/2022 SE239041.070 |
|---|---|---|---|---|---|---|---|
| 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 | BH81(0.8m) SOIL - 9/11/2022 SE239041.071 | BH82(0.2m) SOIL - 9/11/2022 SE239041.072 | BH83(0.2m) SOIL - 9/11/2022 SE239041.073 | BH84(0.1m) SOIL - 9/11/2022 SE239041.074 | BH85(0.2m) SOIL - 9/11/2022 SE239041.075 |
|---|---|---|---|---|---|---|---|
| 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: 16/11/2022 (continued)

| PARAMETER | UOM | LOR | BH86(0.7m) SOIL - 9/11/2022 SE239041.076 | BH87(0.8m) SOIL - 9/11/2022 SE239041.077 | BH88(0.2m) SOIL - 9/11/2022 SE239041.078 | BH89(0.2m) SOIL - 9/11/2022 SE239041.079 | BH90(0.2m) SOIL - 9/11/2022 SE239041.080 |
|---|---|---|---|---|---|---|---|
| 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 | BH91(1.0m) SOIL - 9/11/2022 SE239041.081 | BH92(0.2m) SOIL - 9/11/2022 SE239041.082 | BH93(0.2m) SOIL - 8/11/2022 SE239041.083 | BH94(0.2m) SOIL - 8/11/2022 SE239041.084 | BH95(0.2m) SOIL - 8/11/2022 SE239041.085 |
|---|---|---|---|---|---|---|---|
| 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 | BH96(0.7m) SOIL - 8/11/2022 SE239041.086 | BH97(0.2m) SOIL - 8/11/2022 SE239041.087 | BH98(0.2m) SOIL - 8/11/2022 SE239041.088 | BR1 SOIL - 7/11/2022 SE239041.089 | BR2 SOIL - 8/11/2022 SE239041.090 |
|---|---|---|---|---|---|---|---|
| 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: 16/11/2022 (continued)

| PARAMETER | UOM | LOR | BR3<br>SOIL<br>-<br>9/11/2022<br>SE239041.091 | BR4<br>SOIL<br>-<br>9/11/2022<br>SE239041.092 | WD1<br>SOIL<br>-<br>10/11/2022<br>SE239041.093 | WD2<br>SOIL<br>-<br>10/11/2022<br>SE239041.094 | TRIP BLANK<br>SOIL<br>-<br>10/11/2022<br>SE239041.098 |
|---|---|---|---|---|---|---|---|
| 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: 16/11/2022

| PARAMETER | UOM | LOR | BH11(0.2m) SOIL - 7/11/2022 SE239041.001 | BH12(0.7m) SOIL - 7/11/2022 SE239041.002 | BH13(0.2m) SOIL - 7/11/2022 SE239041.003 | BH14(0.2m) SOIL - 7/11/2022 SE239041.004 | BH15(0.5m) SOIL - 7/11/2022 SE239041.005 |
|---|---|---|---|---|---|---|---|
| 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 | BH16(0.2m) SOIL - 7/11/2022 SE239041.006 | BH17(0.7m) SOIL - 7/11/2022 SE239041.007 | BH18(0.2m) SOIL - 7/11/2022 SE239041.008 | BH19(0.2m) SOIL - 7/11/2022 SE239041.009 | BH20(0.2m) SOIL - 10/11/2022 SE239041.010 |
|---|---|---|---|---|---|---|---|
| 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: 16/11/2022 (continued)

| PARAMETER | UOM | LOR | BH21(0.5m) SOIL - 7/11/2022 SE239041.011 | BH22(0.2m) SOIL - 7/11/2022 SE239041.012 | BH23(0.2m) SOIL - 10/11/2022 SE239041.013 | BH24(0.2m) SOIL - 7/11/2022 SE239041.014 | BH25(0.2m) SOIL - 7/11/2022 SE239041.015 |
|---|---|---|---|---|---|---|---|
| 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 | BH26(surface sample) SOIL - 7/11/2022 SE239041.016 | BH27(0.2m) SOIL - 10/11/2022 SE239041.017 | BH28(0.4m) SOIL - 7/11/2022 SE239041.018 | BH29(0.5m) SOIL - 10/11/2022 SE239041.019 | BH30(0.2m) SOIL - 9/11/2022 SE239041.020 |
|---|---|---|---|---|---|---|---|
| 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: 16/11/2022 (continued)

| PARAMETER | UOM | LOR | BH31(0.2m) SOIL - 9/11/2022 SE239041.021 | BH32(0.2m) SOIL - 8/11/2022 SE239041.022 | BH33(0.2m) SOIL - 8/11/2022 SE239041.023 | BH34(0.2m) SOIL - 8/11/2022 SE239041.024 | BH35(0.2m) SOIL - 7/11/2022 SE239041.025 |
|---|---|---|---|---|---|---|---|
| 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 | BH36(0.6m) SOIL - 7/11/2022 SE239041.026 | BH37(0.6m) SOIL - 9/11/2022 SE239041.027 | BH38(0.2m) SOIL - 9/11/2022 SE239041.028 | BH39(0.2m) SOIL - 9/11/2022 SE239041.029 | BH40(0.2m) SOIL - 7/11/2022 SE239041.030 |
|---|---|---|---|---|---|---|---|
| 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: 16/11/2022 (continued)

| PARAMETER | UOM | LOR | BH41(0.5m) SOIL - 7/11/2022 SE239041.031 | BH42(0.2m) SOIL - 7/11/2022 SE239041.032 | BH43(0.2m) SOIL - 9/11/2022 SE239041.033 | BH44(0.2m) SOIL - 9/11/2022 SE239041.034 | BH45(0.2m) SOIL - 9/11/2022 SE239041.035 |
|---|---|---|---|---|---|---|---|
| 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 | BH46(0.2m) SOIL - 9/11/2022 SE239041.036 | BH47(0.7m) SOIL - 8/11/2022 SE239041.037 | BH48(0.1m) SOIL - 8/11/2022 SE239041.038 | BH49(0.5m) SOIL - 8/11/2022 SE239041.039 | BH50(0.2m) SOIL - 8/11/2022 SE239041.040 |
|---|---|---|---|---|---|---|---|
| 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: 16/11/2022 (continued)

| PARAMETER | UOM | LOR | BH51(0.2m) SOIL - 8/11/2022 SE239041.041 | BH52(0.7m) SOIL - 8/11/2022 SE239041.042 | BH53(0.2m) SOIL - 8/11/2022 SE239041.043 | BH54(0.2m) SOIL - 9/11/2022 SE239041.044 | BH55(0.7m) SOIL - 9/11/2022 SE239041.045 |
|---|---|---|---|---|---|---|---|
| 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 | BH56(0.2m) SOIL - 9/11/2022 SE239041.046 | BH57(0.2m) SOIL - 9/11/2022 SE239041.047 | BH58(0.2m) SOIL - 9/11/2022 SE239041.048 | BH59(0.2m) SOIL - 9/11/2022 SE239041.049 | BH60(0.2m) SOIL - 9/11/2022 SE239041.050 |
|---|---|---|---|---|---|---|---|
| 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: 16/11/2022 (continued)

| PARAMETER | UOM | LOR | BH61(0.5m) SOIL - 9/11/2022 SE239041.051 | BH62(0.2m) SOIL - 9/11/2022 SE239041.052 | BH63(0.2m) SOIL - 7/11/2022 SE239041.053 | BH64(0.2m) SOIL - 8/11/2022 SE239041.054 | BH65(0.9m) SOIL - 8/11/2022 SE239041.055 |
|---|---|---|---|---|---|---|---|
| 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 | BH66(0.2m) SOIL - 8/11/2022 SE239041.056 | BH67(0.2m) SOIL - 8/11/2022 SE239041.057 | BH68(0.6m) SOIL - 8/11/2022 SE239041.058 | BH69(0.2m) SOIL - 8/11/2022 SE239041.059 | BH70(0.2m) SOIL - 8/11/2022 SE239041.060 |
|---|---|---|---|---|---|---|---|
| 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: 16/11/2022 (continued)

| PARAMETER | UOM | LOR | BH71(0.2m) SOIL - 8/11/2022 SE239041.061 | BH72(0.8m) SOIL - 8/11/2022 SE239041.062 | BH73(0.2m) SOIL - 8/11/2022 SE239041.063 | BH74(0.2m) SOIL - 8/11/2022 SE239041.064 | BH75(1.0m) SOIL - 8/11/2022 SE239041.065 |
|---|---|---|---|---|---|---|---|
| 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 | BH76(0.2m) SOIL - 8/11/2022 SE239041.066 | BH77(0.2m) SOIL - 8/11/2022 SE239041.067 | BH78(0.2m) SOIL - 9/11/2022 SE239041.068 | BH79(0.2m) SOIL - 9/11/2022 SE239041.069 | BH80(0.6m) SOIL - 9/11/2022 SE239041.070 |
|---|---|---|---|---|---|---|---|
| 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: 16/11/2022 (continued)

| PARAMETER | UOM | LOR | BH81(0.8m) SOIL - 9/11/2022 SE239041.071 | BH82(0.2m) SOIL - 9/11/2022 SE239041.072 | BH83(0.2m) SOIL - 9/11/2022 SE239041.073 | BH84(0.1m) SOIL - 9/11/2022 SE239041.074 | BH85(0.2m) SOIL - 9/11/2022 SE239041.075 |
|---|---|---|---|---|---|---|---|
| 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 | BH86(0.7m) SOIL - 9/11/2022 SE239041.076 | BH87(0.8m) SOIL - 9/11/2022 SE239041.077 | BH88(0.2m) SOIL - 9/11/2022 SE239041.078 | BH89(0.2m) SOIL - 9/11/2022 SE239041.079 | BH90(0.2m) SOIL - 9/11/2022 SE239041.080 |
|---|---|---|---|---|---|---|---|
| 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: 16/11/2022 (continued)

| PARAMETER | UOM | LOR | BH91(1.0m) SOIL - 9/11/2022 SE239041.081 | BH92(0.2m) SOIL - 9/11/2022 SE239041.082 | BH93(0.2m) SOIL - 8/11/2022 SE239041.083 | BH94(0.2m) SOIL - 8/11/2022 SE239041.084 | BH95(0.2m) SOIL - 8/11/2022 SE239041.085 |
|---|---|---|---|---|---|---|---|
| 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 | BH96(0.7m) SOIL - 8/11/2022 SE239041.086 | BH97(0.2m) SOIL - 8/11/2022 SE239041.087 | BH98(0.2m) SOIL - 8/11/2022 SE239041.088 | BR1 SOIL - 7/11/2022 SE239041.089 | BR2 SOIL - 8/11/2022 SE239041.090 |
|---|---|---|---|---|---|---|---|
| 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: 16/11/2022 (continued)

| PARAMETER | UOM | LOR | BR3 SOIL - 9/11/2022 SE239041.091 | BR4 SOIL - 9/11/2022 SE239041.092 | WD1 SOIL - 10/11/2022 SE239041.093 | WD2 SOIL - 10/11/2022 SE239041.094 |
|---|---|---|---|---|---|---|
| Naphthalene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 2-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 1-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Acenaphthylene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Acenaphthene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Fluorene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Phenanthrene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Anthracene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Fluoranthene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Pyrene | mg/kg | 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 |
| Chrysene | mg/kg | 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 |
| Benzo(k)fluoranthene | mg/kg | 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 |
| Indeno(1,2,3-cd)pyrene | mg/kg | 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 |
| Benzo(ghi)perylene | mg/kg | 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 |
| Carcinogenic PAHs, BaP TEQ <LOR=LOR* | TEQ (mg/kg) | 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 |
| Total PAH (18) | mg/kg | 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 |

## OC Pesticides in Soil [AN420] Tested: 16/11/2022

| PARAMETER | UOM | LOR | BH11(0.2m) SOIL - 7/11/2022 SE239041.001 | BH12(0.7m) SOIL - 7/11/2022 SE239041.002 | BH13(0.2m) SOIL - 7/11/2022 SE239041.003 | BH14(0.2m) SOIL - 7/11/2022 SE239041.004 | BH15(0.5m) SOIL - 7/11/2022 SE239041.005 |
|---|---|---|---|---|---|---|---|
| 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 (gamma BHC) | 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: 16/11/2022 (continued)

| PARAMETER | UOM | LOR | BH16(0.2m) SOIL - 7/11/2022 SE239041.006 | BH17(0.7m) SOIL - 7/11/2022 SE239041.007 | BH18(0.2m) SOIL - 7/11/2022 SE239041.008 | BH19(0.2m) SOIL - 7/11/2022 SE239041.009 | BH20(0.2m) SOIL - 10/11/2022 SE239041.010 |
|---|---|---|---|---|---|---|---|
| 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 (gamma BHC) | 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 | **0.4** |
| 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: 16/11/2022 (continued)

| PARAMETER | UOM | LOR | BH21(0.5m) SOIL - 7/11/2022 SE239041.011 | BH22(0.2m) SOIL - 7/11/2022 SE239041.012 | BH23(0.2m) SOIL - 10/11/2022 SE239041.013 | BH24(0.2m) SOIL - 7/11/2022 SE239041.014 | BH25(0.2m) SOIL - 7/11/2022 SE239041.015 |
|---|---|---|---|---|---|---|---|
| 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 (gamma BHC) | 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: 16/11/2022 (continued)

| PARAMETER | UOM | LOR | BH26(surface sample) SOIL - 7/11/2022 SE239041.016 | BH27(0.2m) SOIL - 10/11/2022 SE239041.017 | BH28(0.4m) SOIL - 7/11/2022 SE239041.018 | BH29(0.5m) SOIL - 10/11/2022 SE239041.019 | BH30(0.2m) SOIL - 9/11/2022 SE239041.020 |
|---|---|---|---|---|---|---|---|
| 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 (gamma BHC) | 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: 16/11/2022 (continued)

| PARAMETER | UOM | LOR | BH31(0.2m) SOIL - 9/11/2022 SE239041.021 | BH32(0.2m) SOIL - 8/11/2022 SE239041.022 | BH33(0.2m) SOIL - 8/11/2022 SE239041.023 | BH34(0.2m) SOIL - 8/11/2022 SE239041.024 | BH35(0.2m) SOIL - 7/11/2022 SE239041.025 |
|---|---|---|---|---|---|---|---|
| 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 (gamma BHC) | 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: 16/11/2022 (continued)

| PARAMETER | UOM | LOR | BH36(0.6m) SOIL - 7/11/2022 SE239041.026 | BH37(0.6m) SOIL - 9/11/2022 SE239041.027 | BH38(0.2m) SOIL - 9/11/2022 SE239041.028 | BH39(0.2m) SOIL - 9/11/2022 SE239041.029 | BH40(0.2m) SOIL - 7/11/2022 SE239041.030 |
|---|---|---|---|---|---|---|---|
| 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 (gamma BHC) | 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: 16/11/2022 (continued)

| PARAMETER | UOM | LOR | BH41(0.5m) SOIL - 7/11/2022 SE239041.031 | BH42(0.2m) SOIL - 7/11/2022 SE239041.032 | BH43(0.2m) SOIL - 9/11/2022 SE239041.033 | BH44(0.2m) SOIL - 9/11/2022 SE239041.034 | BH45(0.2m) SOIL - 9/11/2022 SE239041.035 |
|---|---|---|---|---|---|---|---|
| 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 (gamma BHC) | 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: 16/11/2022 (continued)

| PARAMETER | UOM | LOR | BH46(0.2m) SOIL - 9/11/2022 SE239041.036 | BH47(0.7m) SOIL - 8/11/2022 SE239041.037 | BH48(0.1m) SOIL - 8/11/2022 SE239041.038 | BH49(0.5m) SOIL - 8/11/2022 SE239041.039 | BH50(0.2m) SOIL - 8/11/2022 SE239041.040 |
|---|---|---|---|---|---|---|---|
| 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 (gamma BHC) | 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: 16/11/2022 (continued)

| PARAMETER | UOM | LOR | BH51(0.2m) SOIL - 8/11/2022 SE239041.041 | BH52(0.7m) SOIL - 8/11/2022 SE239041.042 | BH53(0.2m) SOIL - 8/11/2022 SE239041.043 | BH54(0.2m) SOIL - 9/11/2022 SE239041.044 | BH55(0.7m) SOIL - 9/11/2022 SE239041.045 |
|---|---|---|---|---|---|---|---|
| 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 (gamma BHC) | 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: 16/11/2022 (continued)

| PARAMETER | UOM | LOR | BH56(0.2m) SOIL - 9/11/2022 SE239041.046 | BH57(0.2m) SOIL - 9/11/2022 SE239041.047 | BH58(0.2m) SOIL - 9/11/2022 SE239041.048 | BH59(0.2m) SOIL - 9/11/2022 SE239041.049 | BH60(0.2m) SOIL - 9/11/2022 SE239041.050 |
|---|---|---|---|---|---|---|---|
| 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 (gamma BHC) | 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: 16/11/2022 (continued)

| PARAMETER | UOM | LOR | BH61(0.5m) SOIL - 9/11/2022 SE239041.051 | BH62(0.2m) SOIL - 9/11/2022 SE239041.052 | BH63(0.2m) SOIL - 7/11/2022 SE239041.053 | BH64(0.2m) SOIL - 8/11/2022 SE239041.054 | BH65(0.9m) SOIL - 8/11/2022 SE239041.055 |
|---|---|---|---|---|---|---|---|
| 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 (gamma BHC) | 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: 16/11/2022 (continued)

| PARAMETER | UOM | LOR | BH66(0.2m) SOIL - 8/11/2022 SE239041.056 | BH67(0.2m) SOIL - 8/11/2022 SE239041.057 | BH68(0.6m) SOIL - 8/11/2022 SE239041.058 | BH69(0.2m) SOIL - 8/11/2022 SE239041.059 | BH70(0.2m) SOIL - 8/11/2022 SE239041.060 |
|---|---|---|---|---|---|---|---|
| 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 (gamma BHC) | 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: 16/11/2022 (continued)

| PARAMETER | UOM | LOR | BH71(0.2m) SOIL - 8/11/2022 SE239041.061 | BH72(0.8m) SOIL - 8/11/2022 SE239041.062 | BH73(0.2m) SOIL - 8/11/2022 SE239041.063 | BH74(0.2m) SOIL - 8/11/2022 SE239041.064 | BH75(1.0m) SOIL - 8/11/2022 SE239041.065 |
|---|---|---|---|---|---|---|---|
| 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 (gamma BHC) | 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: 16/11/2022 (continued)

| PARAMETER | UOM | LOR | BH76(0.2m) SOIL - 8/11/2022 SE239041.066 | BH77(0.2m) SOIL - 8/11/2022 SE239041.067 | BH78(0.2m) SOIL - 9/11/2022 SE239041.068 | BH79(0.2m) SOIL - 9/11/2022 SE239041.069 | BH80(0.6m) SOIL - 9/11/2022 SE239041.070 |
|---|---|---|---|---|---|---|---|
| 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 (gamma BHC) | 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: 16/11/2022 (continued)

| PARAMETER | UOM | LOR | BH81(0.8m) SOIL - 9/11/2022 SE239041.071 | BH82(0.2m) SOIL - 9/11/2022 SE239041.072 | BH83(0.2m) SOIL - 9/11/2022 SE239041.073 | BH84(0.1m) SOIL - 9/11/2022 SE239041.074 | BH85(0.2m) SOIL - 9/11/2022 SE239041.075 |
|---|---|---|---|---|---|---|---|
| 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 (gamma BHC) | 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: 16/11/2022 (continued)

| PARAMETER | UOM | LOR | BH86(0.7m) SOIL - 9/11/2022 SE239041.076 | BH87(0.8m) SOIL - 9/11/2022 SE239041.077 | BH88(0.2m) SOIL - 9/11/2022 SE239041.078 | BH89(0.2m) SOIL - 9/11/2022 SE239041.079 | BH90(0.2m) SOIL - 9/11/2022 SE239041.080 |
|---|---|---|---|---|---|---|---|
| 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 (gamma BHC) | 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: 16/11/2022 (continued)

| PARAMETER | UOM | LOR | BH91(1.0m) SOIL - 9/11/2022 SE239041.081 | BH92(0.2m) SOIL - 9/11/2022 SE239041.082 | BH93(0.2m) SOIL - 8/11/2022 SE239041.083 | BH94(0.2m) SOIL - 8/11/2022 SE239041.084 | BH95(0.2m) SOIL - 8/11/2022 SE239041.085 |
|---|---|---|---|---|---|---|---|
| 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 (gamma BHC) | 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: 16/11/2022 (continued)

| PARAMETER | UOM | LOR | BH96(0.7m) SOIL - 8/11/2022 SE239041.086 | BH97(0.2m) SOIL - 8/11/2022 SE239041.087 | BH98(0.2m) SOIL - 8/11/2022 SE239041.088 | BR1 SOIL - 7/11/2022 SE239041.089 | BR2 SOIL - 8/11/2022 SE239041.090 |
|---|---|---|---|---|---|---|---|
| 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 (gamma BHC) | 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: 16/11/2022 (continued)

| PARAMETER | UOM | LOR | BR3 SOIL - 9/11/2022 SE239041.091 | BR4 SOIL - 9/11/2022 SE239041.092 | WD1 SOIL - 10/11/2022 SE239041.093 | WD2 SOIL - 10/11/2022 SE239041.094 |
|---|---|---|---|---|---|---|
| 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 (gamma BHC) | 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: 16/11/2022

| PARAMETER | UOM | LOR | BH11(0.2m) SOIL - 7/11/2022 SE239041.001 | BH12(0.7m) SOIL - 7/11/2022 SE239041.002 | BH13(0.2m) SOIL - 7/11/2022 SE239041.003 | BH14(0.2m) SOIL - 7/11/2022 SE239041.004 | BH15(0.5m) SOIL - 7/11/2022 SE239041.005 |
|---|---|---|---|---|---|---|---|
| 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 | BH16(0.2m) SOIL - 7/11/2022 SE239041.006 | BH17(0.7m) SOIL - 7/11/2022 SE239041.007 | BH18(0.2m) SOIL - 7/11/2022 SE239041.008 | BH19(0.2m) SOIL - 7/11/2022 SE239041.009 | BH20(0.2m) SOIL - 10/11/2022 SE239041.010 |
|---|---|---|---|---|---|---|---|
| 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 | BH21(0.5m) SOIL - 7/11/2022 SE239041.011 | BH22(0.2m) SOIL - 7/11/2022 SE239041.012 | BH23(0.2m) SOIL - 10/11/2022 SE239041.013 | BH24(0.2m) SOIL - 7/11/2022 SE239041.014 | BH25(0.2m) SOIL - 7/11/2022 SE239041.015 |
|---|---|---|---|---|---|---|---|
| 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: 16/11/2022 (continued)

| PARAMETER | UOM | LOR | BH26(surface sample) SOIL - 7/11/2022 SE239041.016 | BH27(0.2m) SOIL - 10/11/2022 SE239041.017 | BH28(0.4m) SOIL - 7/11/2022 SE239041.018 | BH29(0.5m) SOIL - 10/11/2022 SE239041.019 | BH30(0.2m) SOIL - 9/11/2022 SE239041.020 |
|---|---|---|---|---|---|---|---|
| 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 | BH31(0.2m) SOIL - 9/11/2022 SE239041.021 | BH32(0.2m) SOIL - 8/11/2022 SE239041.022 | BH33(0.2m) SOIL - 8/11/2022 SE239041.023 | BH34(0.2m) SOIL - 8/11/2022 SE239041.024 | BH35(0.2m) SOIL - 7/11/2022 SE239041.025 |
|---|---|---|---|---|---|---|---|
| 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 | BH36(0.6m) SOIL - 7/11/2022 SE239041.026 | BH37(0.6m) SOIL - 9/11/2022 SE239041.027 | BH38(0.2m) SOIL - 9/11/2022 SE239041.028 | BH39(0.2m) SOIL - 9/11/2022 SE239041.029 | BH40(0.2m) SOIL - 7/11/2022 SE239041.030 |
|---|---|---|---|---|---|---|---|
| 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: 16/11/2022 (continued)

| PARAMETER | UOM | LOR | BH41(0.5m) SOIL - 7/11/2022 SE239041.031 | BH42(0.2m) SOIL - 7/11/2022 SE239041.032 | BH43(0.2m) SOIL - 9/11/2022 SE239041.033 | BH44(0.2m) SOIL - 9/11/2022 SE239041.034 | BH45(0.2m) SOIL - 9/11/2022 SE239041.035 |
|---|---|---|---|---|---|---|---|
| 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 | BH46(0.2m) SOIL - 9/11/2022 SE239041.036 | BH47(0.7m) SOIL - 8/11/2022 SE239041.037 | BH48(0.1m) SOIL - 8/11/2022 SE239041.038 | BH49(0.5m) SOIL - 8/11/2022 SE239041.039 | BH50(0.2m) SOIL - 8/11/2022 SE239041.040 |
|---|---|---|---|---|---|---|---|
| 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 | BH51(0.2m) SOIL - 8/11/2022 SE239041.041 | BH52(0.7m) SOIL - 8/11/2022 SE239041.042 | BH53(0.2m) SOIL - 8/11/2022 SE239041.043 | BH54(0.2m) SOIL - 9/11/2022 SE239041.044 | BH55(0.7m) SOIL - 9/11/2022 SE239041.045 |
|---|---|---|---|---|---|---|---|
| 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: 16/11/2022 (continued)

| PARAMETER | UOM | LOR | BH56(0.2m) SOIL - 9/11/2022 SE239041.046 | BH57(0.2m) SOIL - 9/11/2022 SE239041.047 | BH58(0.2m) SOIL - 9/11/2022 SE239041.048 | BH59(0.2m) SOIL - 9/11/2022 SE239041.049 | BH60(0.2m) SOIL - 9/11/2022 SE239041.050 |
|---|---|---|---|---|---|---|---|
| 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 | BH61(0.5m) SOIL - 9/11/2022 SE239041.051 | BH62(0.2m) SOIL - 9/11/2022 SE239041.052 | BH63(0.2m) SOIL - 7/11/2022 SE239041.053 | BH64(0.2m) SOIL - 8/11/2022 SE239041.054 | BH65(0.9m) SOIL - 8/11/2022 SE239041.055 |
|---|---|---|---|---|---|---|---|
| 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 | BH66(0.2m) SOIL - 8/11/2022 SE239041.056 | BH67(0.2m) SOIL - 8/11/2022 SE239041.057 | BH68(0.6m) SOIL - 8/11/2022 SE239041.058 | BH69(0.2m) SOIL - 8/11/2022 SE239041.059 | BH70(0.2m) SOIL - 8/11/2022 SE239041.060 |
|---|---|---|---|---|---|---|---|
| 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: 16/11/2022 (continued)

| PARAMETER | UOM | LOR | BH71(0.2m) SOIL - 8/11/2022 SE239041.061 | BH72(0.8m) SOIL - 8/11/2022 SE239041.062 | BH73(0.2m) SOIL - 8/11/2022 SE239041.063 | BH74(0.2m) SOIL - 8/11/2022 SE239041.064 | BH75(1.0m) SOIL - 8/11/2022 SE239041.065 |
|---|---|---|---|---|---|---|---|
| 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 | BH76(0.2m) SOIL - 8/11/2022 SE239041.066 | BH77(0.2m) SOIL - 8/11/2022 SE239041.067 | BH78(0.2m) SOIL - 9/11/2022 SE239041.068 | BH79(0.2m) SOIL - 9/11/2022 SE239041.069 | BH80(0.6m) SOIL - 9/11/2022 SE239041.070 |
|---|---|---|---|---|---|---|---|
| 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 | BH81(0.8m) SOIL - 9/11/2022 SE239041.071 | BH82(0.2m) SOIL - 9/11/2022 SE239041.072 | BH83(0.2m) SOIL - 9/11/2022 SE239041.073 | BH84(0.1m) SOIL - 9/11/2022 SE239041.074 | BH85(0.2m) SOIL - 9/11/2022 SE239041.075 |
|---|---|---|---|---|---|---|---|
| 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: 16/11/2022 (continued)

| PARAMETER | UOM | LOR | BH86(0.7m) SOIL - 9/11/2022 SE239041.076 | BH87(0.8m) SOIL - 9/11/2022 SE239041.077 | BH88(0.2m) SOIL - 9/11/2022 SE239041.078 | BH89(0.2m) SOIL - 9/11/2022 SE239041.079 | BH90(0.2m) SOIL - 9/11/2022 SE239041.080 |
|---|---|---|---|---|---|---|---|
| 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 | BH91(1.0m) SOIL - 9/11/2022 SE239041.081 | BH92(0.2m) SOIL - 9/11/2022 SE239041.082 | BH93(0.2m) SOIL - 8/11/2022 SE239041.083 | BH94(0.2m) SOIL - 8/11/2022 SE239041.084 | BH95(0.2m) SOIL - 8/11/2022 SE239041.085 |
|---|---|---|---|---|---|---|---|
| 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 | BH96(0.7m) SOIL - 8/11/2022 SE239041.086 | BH97(0.2m) SOIL - 8/11/2022 SE239041.087 | BH98(0.2m) SOIL - 8/11/2022 SE239041.088 | BR1 SOIL - 7/11/2022 SE239041.089 | BR2 SOIL - 8/11/2022 SE239041.090 |
|---|---|---|---|---|---|---|---|
| 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: 16/11/2022 (continued)

| PARAMETER | UOM | LOR | BR3<br>SOIL<br>-<br>9/11/2022<br>SE239041.091 | BR4<br>SOIL<br>-<br>9/11/2022<br>SE239041.092 | WD1<br>SOIL<br>-<br>10/11/2022<br>SE239041.093 | WD2<br>SOIL<br>-<br>10/11/2022<br>SE239041.094 |
|---|---|---|---|---|---|---|
| Dichlorvos | mg/kg | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Dimethoate | mg/kg | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Diazinon (Dimpylate) | mg/kg | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Fenitrothion | mg/kg | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Malathion | mg/kg | 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 |
| Parathion-ethyl (Parathion) | mg/kg | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Bromophos Ethyl | mg/kg | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Methidathion | mg/kg | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Ethion | mg/kg | 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 |
| Total OP Pesticides* | mg/kg | 1.7 | <1.7 | <1.7 | <1.7 | <1.7 |

## PCBs in Soil [AN420] Tested: 16/11/2022

| PARAMETER | UOM | LOR | BH11(0.2m) SOIL - 7/11/2022 SE239041.001 | BH12(0.7m) SOIL - 7/11/2022 SE239041.002 | BH13(0.2m) SOIL - 7/11/2022 SE239041.003 | BH14(0.2m) SOIL - 7/11/2022 SE239041.004 | BH15(0.5m) SOIL - 7/11/2022 SE239041.005 |
|---|---|---|---|---|---|---|---|
| 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 | BH16(0.2m) SOIL - 7/11/2022 SE239041.006 | BH17(0.7m) SOIL - 7/11/2022 SE239041.007 | BH18(0.2m) SOIL - 7/11/2022 SE239041.008 | BH19(0.2m) SOIL - 7/11/2022 SE239041.009 | BH20(0.2m) SOIL - 10/11/2022 SE239041.010 |
|---|---|---|---|---|---|---|---|
| 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 | BH21(0.5m) SOIL - 7/11/2022 SE239041.011 | BH22(0.2m) SOIL - 7/11/2022 SE239041.012 | BH23(0.2m) SOIL - 10/11/2022 SE239041.013 | BH24(0.2m) SOIL - 7/11/2022 SE239041.014 | BH25(0.2m) SOIL - 7/11/2022 SE239041.015 |
|---|---|---|---|---|---|---|---|
| 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: 16/11/2022 (continued)

| PARAMETER | UOM | LOR | BH26(surface sample) SOIL - 7/11/2022 SE239041.016 | BH27(0.2m) SOIL - 10/11/2022 SE239041.017 | BH28(0.4m) SOIL - 7/11/2022 SE239041.018 | BH29(0.5m) SOIL - 10/11/2022 SE239041.019 | BH30(0.2m) SOIL - 9/11/2022 SE239041.020 |
|---|---|---|---|---|---|---|---|
| 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 | BH31(0.2m) SOIL - 9/11/2022 SE239041.021 | BH32(0.2m) SOIL - 8/11/2022 SE239041.022 | BH33(0.2m) SOIL - 8/11/2022 SE239041.023 | BH34(0.2m) SOIL - 8/11/2022 SE239041.024 | BH35(0.2m) SOIL - 7/11/2022 SE239041.025 |
|---|---|---|---|---|---|---|---|
| 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 | BH36(0.6m) SOIL - 7/11/2022 SE239041.026 | BH37(0.6m) SOIL - 9/11/2022 SE239041.027 | BH38(0.2m) SOIL - 9/11/2022 SE239041.028 | BH39(0.2m) SOIL - 9/11/2022 SE239041.029 | BH40(0.2m) SOIL - 7/11/2022 SE239041.030 |
|---|---|---|---|---|---|---|---|
| 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: 16/11/2022 (continued)

| PARAMETER | UOM | LOR | BH41(0.5m) SOIL - 7/11/2022 SE239041.031 | BH42(0.2m) SOIL - 7/11/2022 SE239041.032 | BH43(0.2m) SOIL - 9/11/2022 SE239041.033 | BH44(0.2m) SOIL - 9/11/2022 SE239041.034 | BH45(0.2m) SOIL - 9/11/2022 SE239041.035 |
|---|---|---|---|---|---|---|---|
| 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 | BH46(0.2m) SOIL - 9/11/2022 SE239041.036 | BH47(0.7m) SOIL - 8/11/2022 SE239041.037 | BH48(0.1m) SOIL - 8/11/2022 SE239041.038 | BH49(0.5m) SOIL - 8/11/2022 SE239041.039 | BH50(0.2m) SOIL - 8/11/2022 SE239041.040 |
|---|---|---|---|---|---|---|---|
| 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 | BH51(0.2m) SOIL - 8/11/2022 SE239041.041 | BH52(0.7m) SOIL - 8/11/2022 SE239041.042 | BH53(0.2m) SOIL - 8/11/2022 SE239041.043 | BH54(0.2m) SOIL - 9/11/2022 SE239041.044 | BH55(0.7m) SOIL - 9/11/2022 SE239041.045 |
|---|---|---|---|---|---|---|---|
| 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 |

## PCBs in Soil [AN420] Tested: 16/11/2022 (continued)

| PARAMETER | UOM | LOR | BH56(0.2m) SOIL - 9/11/2022 SE239041.046 | BH57(0.2m) SOIL - 9/11/2022 SE239041.047 | BH58(0.2m) SOIL - 9/11/2022 SE239041.048 | BH59(0.2m) SOIL - 9/11/2022 SE239041.049 | BH60(0.2m) SOIL - 9/11/2022 SE239041.050 |
|---|---|---|---|---|---|---|---|
| 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 | BH61(0.5m) SOIL - 9/11/2022 SE239041.051 | BH62(0.2m) SOIL - 9/11/2022 SE239041.052 | BH63(0.2m) SOIL - 7/11/2022 SE239041.053 | BH64(0.2m) SOIL - 8/11/2022 SE239041.054 | BH65(0.9m) SOIL - 8/11/2022 SE239041.055 |
|---|---|---|---|---|---|---|---|
| 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 |

| PARAMETER | UOM | LOR | BH66(0.2m) SOIL - 8/11/2022 SE239041.056 | BH67(0.2m) SOIL - 8/11/2022 SE239041.057 | BH68(0.6m) SOIL - 8/11/2022 SE239041.058 | BH69(0.2m) SOIL - 8/11/2022 SE239041.059 | BH70(0.2m) SOIL - 8/11/2022 SE239041.060 |
|---|---|---|---|---|---|---|---|
| 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: 16/11/2022 (continued)

| PARAMETER | UOM | LOR | BH71(0.2m) SOIL - 8/11/2022 SE239041.061 | BH72(0.8m) SOIL - 8/11/2022 SE239041.062 | BH73(0.2m) SOIL - 8/11/2022 SE239041.063 | BH74(0.2m) SOIL - 8/11/2022 SE239041.064 | BH75(1.0m) SOIL - 8/11/2022 SE239041.065 |
|---|---|---|---|---|---|---|---|
| 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 | BH76(0.2m) SOIL - 8/11/2022 SE239041.066 | BH77(0.2m) SOIL - 8/11/2022 SE239041.067 | BH78(0.2m) SOIL - 9/11/2022 SE239041.068 | BH79(0.2m) SOIL - 9/11/2022 SE239041.069 | BH80(0.6m) SOIL - 9/11/2022 SE239041.070 |
|---|---|---|---|---|---|---|---|
| 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 | BH81(0.8m) SOIL - 9/11/2022 SE239041.071 | BH82(0.2m) SOIL - 9/11/2022 SE239041.072 | BH83(0.2m) SOIL - 9/11/2022 SE239041.073 | BH84(0.1m) SOIL - 9/11/2022 SE239041.074 | BH85(0.2m) SOIL - 9/11/2022 SE239041.075 |
|---|---|---|---|---|---|---|---|
| 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: 16/11/2022 (continued)

| PARAMETER | UOM | LOR | BH86(0.7m) SOIL - 9/11/2022 SE239041.076 | BH87(0.8m) SOIL - 9/11/2022 SE239041.077 | BH88(0.2m) SOIL - 9/11/2022 SE239041.078 | BH89(0.2m) SOIL - 9/11/2022 SE239041.079 | BH90(0.2m) SOIL - 9/11/2022 SE239041.080 |
|---|---|---|---|---|---|---|---|
| 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 | BH91(1.0m) SOIL - 9/11/2022 SE239041.081 | BH92(0.2m) SOIL - 9/11/2022 SE239041.082 | BH93(0.2m) SOIL - 8/11/2022 SE239041.083 | BH94(0.2m) SOIL - 8/11/2022 SE239041.084 | BH95(0.2m) SOIL - 8/11/2022 SE239041.085 |
|---|---|---|---|---|---|---|---|
| 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 | BH96(0.7m) SOIL - 8/11/2022 SE239041.086 | BH97(0.2m) SOIL - 8/11/2022 SE239041.087 | BH98(0.2m) SOIL - 8/11/2022 SE239041.088 | BR1 SOIL - 7/11/2022 SE239041.089 | BR2 SOIL - 8/11/2022 SE239041.090 |
|---|---|---|---|---|---|---|---|
| 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: 16/11/2022 (continued)

| PARAMETER | UOM | LOR | BR3 SOIL - 9/11/2022 SE239041.091 | BR4 SOIL - 9/11/2022 SE239041.092 | WD1 SOIL - 10/11/2022 SE239041.093 | WD2 SOIL - 10/11/2022 SE239041.094 |
|---|---|---|---|---|---|---|
| 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 |

## Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 18/11/2022

| PARAMETER | UOM | LOR | BH11(0.2m) SOIL - 7/11/2022 SE239041.001 | BH12(0.7m) SOIL - 7/11/2022 SE239041.002 | BH13(0.2m) SOIL - 7/11/2022 SE239041.003 | BH14(0.2m) SOIL - 7/11/2022 SE239041.004 | BH15(0.5m) SOIL - 7/11/2022 SE239041.005 |
|---|---|---|---|---|---|---|---|
| Arsenic, As | mg/kg | 1 | 4 | 1 | 4 | 2 | 2 |
| Cadmium, Cd | mg/kg | 0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Chromium, Cr | mg/kg | 0.5 | 89 | 93 | 140 | 130 | 120 |
| Copper, Cu | mg/kg | 0.5 | 5.8 | 43 | 30 | 30 | 38 |
| Lead, Pb | mg/kg | 1 | 16 | 2 | 14 | 6 | 3 |
| Nickel, Ni | mg/kg | 0.5 | 8.7 | 69 | 53 | 89 | 170 |
| Zinc, Zn | mg/kg | 2 | 7.5 | 41 | 30 | 33 | 38 |

| PARAMETER | UOM | LOR | BH16(0.2m) SOIL - 7/11/2022 SE239041.006 | BH17(0.7m) SOIL - 7/11/2022 SE239041.007 | BH18(0.2m) SOIL - 7/11/2022 SE239041.008 | BH19(0.2m) SOIL - 7/11/2022 SE239041.009 | BH20(0.2m) SOIL - 10/11/2022 SE239041.010 |
|---|---|---|---|---|---|---|---|
| Arsenic, As | mg/kg | 1 | 3 | 1 | 3 | 3 | 10 |
| Cadmium, Cd | mg/kg | 0.3 | <0.3 | <0.3 | <0.3 | <0.3 | 0.4 |
| Chromium, Cr | mg/kg | 0.5 | 110 | 78 | 91 | 110 | 75 |
| Copper, Cu | mg/kg | 0.5 | 31 | 1100 | 13 | 46 | 13 |
| Lead, Pb | mg/kg | 1 | 11 | 2 | 12 | 8 | 29 |
| Nickel, Ni | mg/kg | 0.5 | 62 | 79 | 21 | 85 | 13 |
| Zinc, Zn | mg/kg | 2 | 22 | 42 | 13 | 55 | 43 |

| PARAMETER | UOM | LOR | BH21(0.5m) SOIL - 7/11/2022 SE239041.011 | BH22(0.2m) SOIL - 7/11/2022 SE239041.012 | BH23(0.2m) SOIL - 10/11/2022 SE239041.013 | BH24(0.2m) SOIL - 7/11/2022 SE239041.014 | BH25(0.2m) SOIL - 7/11/2022 SE239041.015 |
|---|---|---|---|---|---|---|---|
| Arsenic, As | mg/kg | 1 | <1 | 2 | 23 | 3 | 3 |
| Cadmium, Cd | mg/kg | 0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Chromium, Cr | mg/kg | 0.5 | 310 | 95 | 53 | 95 | 92 |
| Copper, Cu | mg/kg | 0.5 | 15 | 22 | 72 | 24 | 18 |
| Lead, Pb | mg/kg | 1 | 1 | 11 | 20 | 9 | 10 |
| Nickel, Ni | mg/kg | 0.5 | 140 | 55 | 27 | 60 | 44 |
| Zinc, Zn | mg/kg | 2 | 65 | 31 | 79 | 50 | 50 |

| PARAMETER | UOM | LOR | BH26(surface sample) SOIL - 7/11/2022 SE239041.016 | BH27(0.2m) SOIL - 10/11/2022 SE239041.017 | BH28(0.4m) SOIL - 7/11/2022 SE239041.018 | BH29(0.5m) SOIL - 10/11/2022 SE239041.019 | BH30(0.2m) SOIL - 9/11/2022 SE239041.020 |
|---|---|---|---|---|---|---|---|
| Arsenic, As | mg/kg | 1 | 1 | 3 | 2 | 3 | 2 |
| Cadmium, Cd | mg/kg | 0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Chromium, Cr | mg/kg | 0.5 | 21 | 110 | 120 | 64 | 93 |
| Copper, Cu | mg/kg | 0.5 | 5.0 | 34 | 26 | 20 | 27 |
| Lead, Pb | mg/kg | 1 | 9 | 18 | 3 | 13 | 9 |
| Nickel, Ni | mg/kg | 0.5 | 6.5 | 68 | 64 | 34 | 48 |
| Zinc, Zn | mg/kg | 2 | 24 | 100 | 28 | 30 | 71 |

## Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 18/11/2022 (continued)

| PARAMETER | UOM | LOR | BH31(0.2m) SOIL - 9/11/2022 SE239041.021 | BH32(0.2m) SOIL - 8/11/2022 SE239041.022 | BH33(0.2m) SOIL - 8/11/2022 SE239041.023 | BH34(0.2m) SOIL - 8/11/2022 SE239041.024 | BH35(0.2m) SOIL - 7/11/2022 SE239041.025 |
|---|---|---|---|---|---|---|---|
| Arsenic, As | mg/kg | 1 | <1 | 7 | 3 | 2 | 3 |
| Cadmium, Cd | mg/kg | 0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Chromium, Cr | mg/kg | 0.5 | 110 | 45 | 150 | 35 | 47 |
| Copper, Cu | mg/kg | 0.5 | 27 | 11 | 54 | 2.2 | 3.5 |
| Lead, Pb | mg/kg | 1 | 5 | 14 | 5 | 12 | 13 |
| Nickel, Ni | mg/kg | 0.5 | 62 | 8.7 | 160 | 2.6 | 3.4 |
| Zinc, Zn | mg/kg | 2 | 49 | 10 | 52 | 5.1 | 9.4 |

| PARAMETER | UOM | LOR | BH36(0.6m) SOIL - 7/11/2022 SE239041.026 | BH37(0.6m) SOIL - 9/11/2022 SE239041.027 | BH38(0.2m) SOIL - 9/11/2022 SE239041.028 | BH39(0.2m) SOIL - 9/11/2022 SE239041.029 | BH40(0.2m) SOIL - 7/11/2022 SE239041.030 |
|---|---|---|---|---|---|---|---|
| Arsenic, As | mg/kg | 1 | 4 | 4 | 6 | 3 | <1 |
| Cadmium, Cd | mg/kg | 0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Chromium, Cr | mg/kg | 0.5 | 46 | 40 | 39 | 38 | 140 |
| Copper, Cu | mg/kg | 0.5 | 7.9 | 10 | 13 | 11 | 23 |
| Lead, Pb | mg/kg | 1 | 27 | 19 | 17 | 14 | 3 |
| Nickel, Ni | mg/kg | 0.5 | 4.7 | 6.3 | 8.1 | 7.8 | 95 |
| Zinc, Zn | mg/kg | 2 | 11 | 11 | 80 | 12 | 42 |

| PARAMETER | UOM | LOR | BH41(0.5m) SOIL - 7/11/2022 SE239041.031 | BH42(0.2m) SOIL - 7/11/2022 SE239041.032 | BH43(0.2m) SOIL - 9/11/2022 SE239041.033 | BH44(0.2m) SOIL - 9/11/2022 SE239041.034 | BH45(0.2m) SOIL - 9/11/2022 SE239041.035 |
|---|---|---|---|---|---|---|---|
| Arsenic, As | mg/kg | 1 | 2 | 2 | 2 | 3 | 2 |
| Cadmium, Cd | mg/kg | 0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Chromium, Cr | mg/kg | 0.5 | 110 | 71 | 95 | 52 | 80 |
| Copper, Cu | mg/kg | 0.5 | 34 | 18 | 28 | 20 | 19 |
| Lead, Pb | mg/kg | 1 | 6 | 8 | 10 | 12 | 9 |
| Nickel, Ni | mg/kg | 0.5 | 110 | 33 | 81 | 38 | 40 |
| Zinc, Zn | mg/kg | 2 | 34 | 37 | 33 | 28 | 28 |

| PARAMETER | UOM | LOR | BH46(0.2m) SOIL - 9/11/2022 SE239041.036 | BH47(0.7m) SOIL - 8/11/2022 SE239041.037 | BH48(0.1m) SOIL - 8/11/2022 SE239041.038 | BH49(0.5m) SOIL - 8/11/2022 SE239041.039 | BH50(0.2m) SOIL - 8/11/2022 SE239041.040 |
|---|---|---|---|---|---|---|---|
| Arsenic, As | mg/kg | 1 | 2 | 3 | 3 | 3 | 3 |
| Cadmium, Cd | mg/kg | 0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Chromium, Cr | mg/kg | 0.5 | 84 | 15 | 33 | 4.8 | 16 |
| Copper, Cu | mg/kg | 0.5 | 20 | 5.6 | 1.9 | 2.0 | 2.0 |
| Lead, Pb | mg/kg | 1 | 12 | 10 | 12 | 7 | 15 |
| Nickel, Ni | mg/kg | 0.5 | 30 | 4.0 | 1.9 | 1.1 | 1.4 |
| Zinc, Zn | mg/kg | 2 | 52 | 9.0 | 4.2 | 8.6 | 6.3 |

## Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 18/11/2022 (continued)

| PARAMETER | UOM | LOR | BH51(0.2m) SOIL - 8/11/2022 SE239041.041 | BH52(0.7m) SOIL - 8/11/2022 SE239041.042 | BH53(0.2m) SOIL - 8/11/2022 SE239041.043 | BH54(0.2m) SOIL - 9/11/2022 SE239041.044 | BH55(0.7m) SOIL - 9/11/2022 SE239041.045 |
|---|---|---|---|---|---|---|---|
| Arsenic, As | mg/kg | 1 | 6 | 5 | 4 | 2 | <1 |
| Cadmium, Cd | mg/kg | 0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Chromium, Cr | mg/kg | 0.5 | 91 | 20 | 13 | 110 | 37 |
| Copper, Cu | mg/kg | 0.5 | 3.7 | 10 | 5.3 | 35 | 19 |
| Lead, Pb | mg/kg | 1 | 25 | 15 | 16 | 8 | <1 |
| Nickel, Ni | mg/kg | 0.5 | 4.9 | 6.1 | 2.4 | 76 | 97 |
| Zinc, Zn | mg/kg | 2 | 12 | 11 | 12 | 40 | 39 |

| PARAMETER | UOM | LOR | BH56(0.2m) SOIL - 9/11/2022 SE239041.046 | BH57(0.2m) SOIL - 9/11/2022 SE239041.047 | BH58(0.2m) SOIL - 9/11/2022 SE239041.048 | BH59(0.2m) SOIL - 9/11/2022 SE239041.049 | BH60(0.2m) SOIL - 9/11/2022 SE239041.050 |
|---|---|---|---|---|---|---|---|
| Arsenic, As | mg/kg | 1 | 2 | 1 | 3 | 1 | <1 |
| Cadmium, Cd | mg/kg | 0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Chromium, Cr | mg/kg | 0.5 | 61 | 130 | 110 | 250 | 170 |
| Copper, Cu | mg/kg | 0.5 | 21 | 28 | 18 | 56 | 26 |
| Lead, Pb | mg/kg | 1 | 8 | 7 | 11 | 6 | 2 |
| Nickel, Ni | mg/kg | 0.5 | 43 | 76 | 55 | 210 | 91 |
| Zinc, Zn | mg/kg | 2 | 36 | 46 | 27 | 56 | 40 |

| PARAMETER | UOM | LOR | BH61(0.5m) SOIL - 9/11/2022 SE239041.051 | BH62(0.2m) SOIL - 9/11/2022 SE239041.052 | BH63(0.2m) SOIL - 7/11/2022 SE239041.053 | BH64(0.2m) SOIL - 8/11/2022 SE239041.054 | BH65(0.9m) SOIL - 8/11/2022 SE239041.055 |
|---|---|---|---|---|---|---|---|
| Arsenic, As | mg/kg | 1 | 1 | 1 | 4 | 13 | 24 |
| Cadmium, Cd | mg/kg | 0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Chromium, Cr | mg/kg | 0.5 | 85 | 140 | 100 | 170 | 59 |
| Copper, Cu | mg/kg | 0.5 | 30 | 36 | 6.0 | 6.0 | 28 |
| Lead, Pb | mg/kg | 1 | 3 | 5 | 17 | 39 | 20 |
| Nickel, Ni | mg/kg | 0.5 | 82 | 100 | 7.6 | 8.3 | 42 |
| Zinc, Zn | mg/kg | 2 | 39 | 49 | 13 | 16 | 48 |

| PARAMETER | UOM | LOR | BH66(0.2m) SOIL - 8/11/2022 SE239041.056 | BH67(0.2m) SOIL - 8/11/2022 SE239041.057 | BH68(0.6m) SOIL - 8/11/2022 SE239041.058 | BH69(0.2m) SOIL - 8/11/2022 SE239041.059 | BH70(0.2m) SOIL - 8/11/2022 SE239041.060 |
|---|---|---|---|---|---|---|---|
| Arsenic, As | mg/kg | 1 | 4 | 3 | 4 | 4 | 2 |
| Cadmium, Cd | mg/kg | 0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Chromium, Cr | mg/kg | 0.5 | 66 | 87 | 130 | 30 | 21 |
| Copper, Cu | mg/kg | 0.5 | 3.0 | 28 | 24 | 5.9 | 2.4 |
| Lead, Pb | mg/kg | 1 | 17 | 8 | 3 | 14 | 14 |
| Nickel, Ni | mg/kg | 0.5 | 3.7 | 68 | 71 | 2.8 | 1.5 |
| Zinc, Zn | mg/kg | 2 | 8.4 | 25 | 32 | 22 | 6.0 |

## Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 18/11/2022 (continued)

| PARAMETER | UOM | LOR | BH71(0.2m) SOIL - 8/11/2022 SE239041.061 | BH72(0.8m) SOIL - 8/11/2022 SE239041.062 | BH73(0.2m) SOIL - 8/11/2022 SE239041.063 | BH74(0.2m) SOIL - 8/11/2022 SE239041.064 | BH75(1.0m) SOIL - 8/11/2022 SE239041.065 |
|---|---|---|---|---|---|---|---|
| Arsenic, As | mg/kg | 1 | 5 | 2 | 3 | 9 | 6 |
| Cadmium, Cd | mg/kg | 0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Chromium, Cr | mg/kg | 0.5 | 59 | 18 | 48 | 64 | 3.9 |
| Copper, Cu | mg/kg | 0.5 | 3.5 | 10 | 3.4 | 1.3 | 4.8 |
| Lead, Pb | mg/kg | 1 | 34 | 13 | 18 | 36 | 26 |
| Nickel, Ni | mg/kg | 0.5 | 3.0 | 7.0 | 2.5 | 2.5 | 37 |
| Zinc, Zn | mg/kg | 2 | 6.6 | 9.1 | 5.1 | 9.7 | 41 |

| PARAMETER | UOM | LOR | BH76(0.2m) SOIL - 8/11/2022 SE239041.066 | BH77(0.2m) SOIL - 8/11/2022 SE239041.067 | BH78(0.2m) SOIL - 9/11/2022 SE239041.068 | BH79(0.2m) SOIL - 9/11/2022 SE239041.069 | BH80(0.6m) SOIL - 9/11/2022 SE239041.070 |
|---|---|---|---|---|---|---|---|
| Arsenic, As | mg/kg | 1 | 6 | 5 | 4 | 7 | 5 |
| Cadmium, Cd | mg/kg | 0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Chromium, Cr | mg/kg | 0.5 | 52 | 37 | 49 | 29 | 41 |
| Copper, Cu | mg/kg | 0.5 | 5.2 | 6.0 | 3.6 | 3.6 | 20 |
| Lead, Pb | mg/kg | 1 | 15 | 17 | 18 | 16 | 15 |
| Nickel, Ni | mg/kg | 0.5 | 3.0 | 3.8 | 2.0 | 2.5 | 12 |
| Zinc, Zn | mg/kg | 2 | 17 | 10 | 6.9 | 13 | 14 |

| PARAMETER | UOM | LOR | BH81(0.8m) SOIL - 9/11/2022 SE239041.071 | BH82(0.2m) SOIL - 9/11/2022 SE239041.072 | BH83(0.2m) SOIL - 9/11/2022 SE239041.073 | BH84(0.1m) SOIL - 9/11/2022 SE239041.074 | BH85(0.2m) SOIL - 9/11/2022 SE239041.075 |
|---|---|---|---|---|---|---|---|
| Arsenic, As | mg/kg | 1 | 4 | 4 | 5 | 6 | 4 |
| Cadmium, Cd | mg/kg | 0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Chromium, Cr | mg/kg | 0.5 | 28 | 60 | 67 | 110 | 60 |
| Copper, Cu | mg/kg | 0.5 | 23 | 6.0 | 10 | 6.9 | 8.1 |
| Lead, Pb | mg/kg | 1 | 16 | 14 | 21 | 30 | 28 |
| Nickel, Ni | mg/kg | 0.5 | 12 | 3.5 | 7.1 | 4.9 | 4.8 |
| Zinc, Zn | mg/kg | 2 | 21 | 9.2 | 12 | 18 | 18 |

| PARAMETER | UOM | LOR | BH86(0.7m) SOIL - 9/11/2022 SE239041.076 | BH87(0.8m) SOIL - 9/11/2022 SE239041.077 | BH88(0.2m) SOIL - 9/11/2022 SE239041.078 | BH89(0.2m) SOIL - 9/11/2022 SE239041.079 | BH90(0.2m) SOIL - 9/11/2022 SE239041.080 |
|---|---|---|---|---|---|---|---|
| Arsenic, As | mg/kg | 1 | 3 | 4 | 6 | 8 | 22 |
| Cadmium, Cd | mg/kg | 0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Chromium, Cr | mg/kg | 0.5 | 12 | 25 | 66 | 28 | 20 |
| Copper, Cu | mg/kg | 0.5 | 9.4 | 20 | 7.8 | 2.3 | 4.1 |
| Lead, Pb | mg/kg | 1 | 6 | 10 | 21 | 16 | 15 |
| Nickel, Ni | mg/kg | 0.5 | 5.6 | 7.0 | 4.5 | 2.1 | 1.9 |
| Zinc, Zn | mg/kg | 2 | 8.9 | 17 | 12 | 4.2 | 5.5 |

## Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 18/11/2022 (continued)

| PARAMETER | UOM | LOR | BH91(1.0m) SOIL - 9/11/2022 SE239041.081 | BH92(0.2m) SOIL - 9/11/2022 SE239041.082 | BH93(0.2m) SOIL - 8/11/2022 SE239041.083 | BH94(0.2m) SOIL - 8/11/2022 SE239041.084 | BH95(0.2m) SOIL - 8/11/2022 SE239041.085 |
|---|---|---|---|---|---|---|---|
| Arsenic, As | mg/kg | 1 | <1 | 6 | 4 | 6 | 4 |
| Cadmium, Cd | mg/kg | 0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Chromium, Cr | mg/kg | 0.5 | 110 | 42 | 44 | 100 | 18 |
| Copper, Cu | mg/kg | 0.5 | 22 | 3.0 | 3.4 | 7.2 | 3.1 |
| Lead, Pb | mg/kg | 1 | 3 | 18 | 19 | 23 | 16 |
| Nickel, Ni | mg/kg | 0.5 | 85 | 2.7 | 3.0 | 6.3 | 2.0 |
| Zinc, Zn | mg/kg | 2 | 25 | 9.9 | 9.3 | 11 | 8.4 |

| PARAMETER | UOM | LOR | BH96(0.7m) SOIL - 8/11/2022 SE239041.086 | BH97(0.2m) SOIL - 8/11/2022 SE239041.087 | BH98(0.2m) SOIL - 8/11/2022 SE239041.088 | BR1 SOIL - 7/11/2022 SE239041.089 | BR2 SOIL - 8/11/2022 SE239041.090 |
|---|---|---|---|---|---|---|---|
| Arsenic, As | mg/kg | 1 | 6 | 5 | 6 | 4 | 5 |
| Cadmium, Cd | mg/kg | 0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Chromium, Cr | mg/kg | 0.5 | 67 | 59 | 69 | 100 | 48 |
| Copper, Cu | mg/kg | 0.5 | 16 | 2.4 | 2.8 | 19 | 2.5 |
| Lead, Pb | mg/kg | 1 | 15 | 27 | 23 | 20 | 27 |
| Nickel, Ni | mg/kg | 0.5 | 16 | 2.2 | 2.7 | 38 | 2.2 |
| Zinc, Zn | mg/kg | 2 | 18 | 8.1 | 8.6 | 28 | 7.9 |

| PARAMETER | UOM | LOR | BR3 SOIL - 9/11/2022 SE239041.091 | BR4 SOIL - 9/11/2022 SE239041.092 | WD1 SOIL - 10/11/2022 SE239041.093 | WD2 SOIL - 10/11/2022 SE239041.094 | TRIP BLANK SOIL - 10/11/2022 SE239041.098 |
|---|---|---|---|---|---|---|---|
| Arsenic, As | mg/kg | 1 | 2 | 5 | 3 | 2 | <1 |
| Cadmium, Cd | mg/kg | 0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Chromium, Cr | mg/kg | 0.5 | 110 | 35 | 70 | 39 | <0.5 |
| Copper, Cu | mg/kg | 0.5 | 38 | 3.3 | 16 | 6.4 | <0.5 |
| Lead, Pb | mg/kg | 1 | 9 | 18 | 14 | 14 | <1 |
| Nickel, Ni | mg/kg | 0.5 | 83 | 3.0 | 24 | 2.8 | <0.5 |
| Zinc, Zn | mg/kg | 2 | 42 | 11 | 34 | 11 | <2.0 |

## Mercury in Soil [AN312] Tested: 18/11/2022

| PARAMETER | UOM | LOR | BH11(0.2m) SOIL - 7/11/2022 SE239041.001 | BH12(0.7m) SOIL - 7/11/2022 SE239041.002 | BH13(0.2m) SOIL - 7/11/2022 SE239041.003 | BH14(0.2m) SOIL - 7/11/2022 SE239041.004 | BH15(0.5m) SOIL - 7/11/2022 SE239041.005 |
|---|---|---|---|---|---|---|---|
| Mercury | mg/kg | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |

| PARAMETER | UOM | LOR | BH16(0.2m) SOIL - 7/11/2022 SE239041.006 | BH17(0.7m) SOIL - 7/11/2022 SE239041.007 | BH18(0.2m) SOIL - 7/11/2022 SE239041.008 | BH19(0.2m) SOIL - 7/11/2022 SE239041.009 | BH20(0.2m) SOIL - 10/11/2022 SE239041.010 |
|---|---|---|---|---|---|---|---|
| Mercury | mg/kg | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |

| PARAMETER | UOM | LOR | BH21(0.5m) SOIL - 7/11/2022 SE239041.011 | BH22(0.2m) SOIL - 7/11/2022 SE239041.012 | BH23(0.2m) SOIL - 10/11/2022 SE239041.013 | BH24(0.2m) SOIL - 7/11/2022 SE239041.014 | BH25(0.2m) SOIL - 7/11/2022 SE239041.015 |
|---|---|---|---|---|---|---|---|
| Mercury | mg/kg | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |

| PARAMETER | UOM | LOR | BH26(surface sample) SOIL - 7/11/2022 SE239041.016 | BH27(0.2m) SOIL - 10/11/2022 SE239041.017 | BH28(0.4m) SOIL - 7/11/2022 SE239041.018 | BH29(0.5m) SOIL - 10/11/2022 SE239041.019 | BH30(0.2m) SOIL - 9/11/2022 SE239041.020 |
|---|---|---|---|---|---|---|---|
| Mercury | mg/kg | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |

| PARAMETER | UOM | LOR | BH31(0.2m) SOIL - 9/11/2022 SE239041.021 | BH32(0.2m) SOIL - 8/11/2022 SE239041.022 | BH33(0.2m) SOIL - 8/11/2022 SE239041.023 | BH34(0.2m) SOIL - 8/11/2022 SE239041.024 | BH35(0.2m) SOIL - 7/11/2022 SE239041.025 |
|---|---|---|---|---|---|---|---|
| Mercury | mg/kg | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |

| PARAMETER | UOM | LOR | BH36(0.6m) SOIL - 7/11/2022 SE239041.026 | BH37(0.6m) SOIL - 9/11/2022 SE239041.027 | BH38(0.2m) SOIL - 9/11/2022 SE239041.028 | BH39(0.2m) SOIL - 9/11/2022 SE239041.029 | BH40(0.2m) SOIL - 7/11/2022 SE239041.030 |
|---|---|---|---|---|---|---|---|
| Mercury | mg/kg | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |

| PARAMETER | UOM | LOR | BH41(0.5m) SOIL - 7/11/2022 SE239041.031 | BH42(0.2m) SOIL - 7/11/2022 SE239041.032 | BH43(0.2m) SOIL - 9/11/2022 SE239041.033 | BH44(0.2m) SOIL - 9/11/2022 SE239041.034 | BH45(0.2m) SOIL - 9/11/2022 SE239041.035 |
|---|---|---|---|---|---|---|---|
| Mercury | mg/kg | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |

## Mercury in Soil [AN312] Tested: 18/11/2022 (continued)

| PARAMETER | UOM | LOR | BH46(0.2m) SOIL - 9/11/2022 SE239041.036 | BH47(0.7m) SOIL - 8/11/2022 SE239041.037 | BH48(0.1m) SOIL - 8/11/2022 SE239041.038 | BH49(0.5m) SOIL - 8/11/2022 SE239041.039 | BH50(0.2m) SOIL - 8/11/2022 SE239041.040 |
|---|---|---|---|---|---|---|---|
| Mercury | mg/kg | 0.05 | <0.05 | <0.05 | <0.05 | **0.06** | <0.05 |

| PARAMETER | UOM | LOR | BH51(0.2m) SOIL - 8/11/2022 SE239041.041 | BH52(0.7m) SOIL - 8/11/2022 SE239041.042 | BH53(0.2m) SOIL - 8/11/2022 SE239041.043 | BH54(0.2m) SOIL - 9/11/2022 SE239041.044 | BH55(0.7m) SOIL - 9/11/2022 SE239041.045 |
|---|---|---|---|---|---|---|---|
| Mercury | mg/kg | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |

| PARAMETER | UOM | LOR | BH56(0.2m) SOIL - 9/11/2022 SE239041.046 | BH57(0.2m) SOIL - 9/11/2022 SE239041.047 | BH58(0.2m) SOIL - 9/11/2022 SE239041.048 | BH59(0.2m) SOIL - 9/11/2022 SE239041.049 | BH60(0.2m) SOIL - 9/11/2022 SE239041.050 |
|---|---|---|---|---|---|---|---|
| Mercury | mg/kg | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |

| PARAMETER | UOM | LOR | BH61(0.5m) SOIL - 9/11/2022 SE239041.051 | BH62(0.2m) SOIL - 9/11/2022 SE239041.052 | BH63(0.2m) SOIL - 7/11/2022 SE239041.053 | BH64(0.2m) SOIL - 8/11/2022 SE239041.054 | BH65(0.9m) SOIL - 8/11/2022 SE239041.055 |
|---|---|---|---|---|---|---|---|
| Mercury | mg/kg | 0.05 | <0.05 | <0.05 | <0.05 | **0.05** | <0.05 |

| PARAMETER | UOM | LOR | BH66(0.2m) SOIL - 8/11/2022 SE239041.056 | BH67(0.2m) SOIL - 8/11/2022 SE239041.057 | BH68(0.6m) SOIL - 8/11/2022 SE239041.058 | BH69(0.2m) SOIL - 8/11/2022 SE239041.059 | BH70(0.2m) SOIL - 8/11/2022 SE239041.060 |
|---|---|---|---|---|---|---|---|
| Mercury | mg/kg | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |

| PARAMETER | UOM | LOR | BH71(0.2m) SOIL - 8/11/2022 SE239041.061 | BH72(0.8m) SOIL - 8/11/2022 SE239041.062 | BH73(0.2m) SOIL - 8/11/2022 SE239041.063 | BH74(0.2m) SOIL - 8/11/2022 SE239041.064 | BH75(1.0m) SOIL - 8/11/2022 SE239041.065 |
|---|---|---|---|---|---|---|---|
| Mercury | mg/kg | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |

| PARAMETER | UOM | LOR | BH76(0.2m) SOIL - 8/11/2022 SE239041.066 | BH77(0.2m) SOIL - 8/11/2022 SE239041.067 | BH78(0.2m) SOIL - 9/11/2022 SE239041.068 | BH79(0.2m) SOIL - 9/11/2022 SE239041.069 | BH80(0.6m) SOIL - 9/11/2022 SE239041.070 |
|---|---|---|---|---|---|---|---|
| Mercury | mg/kg | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |

## Mercury in Soil [AN312] Tested: 18/11/2022 (continued)

| PARAMETER | UOM | LOR | BH81(0.8m) SOIL - 9/11/2022 SE239041.071 | BH82(0.2m) SOIL - 9/11/2022 SE239041.072 | BH83(0.2m) SOIL - 9/11/2022 SE239041.073 | BH84(0.1m) SOIL - 9/11/2022 SE239041.074 | BH85(0.2m) SOIL - 9/11/2022 SE239041.075 |
|---|---|---|---|---|---|---|---|
| Mercury | mg/kg | 0.05 | 0.09 | <0.05 | <0.05 | <0.05 | <0.05 |

| PARAMETER | UOM | LOR | BH86(0.7m) SOIL - 9/11/2022 SE239041.076 | BH87(0.8m) SOIL - 9/11/2022 SE239041.077 | BH88(0.2m) SOIL - 9/11/2022 SE239041.078 | BH89(0.2m) SOIL - 9/11/2022 SE239041.079 | BH90(0.2m) SOIL - 9/11/2022 SE239041.080 |
|---|---|---|---|---|---|---|---|
| Mercury | mg/kg | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |

| PARAMETER | UOM | LOR | BH91(1.0m) SOIL - 9/11/2022 SE239041.081 | BH92(0.2m) SOIL - 9/11/2022 SE239041.082 | BH93(0.2m) SOIL - 8/11/2022 SE239041.083 | BH94(0.2m) SOIL - 8/11/2022 SE239041.084 | BH95(0.2m) SOIL - 8/11/2022 SE239041.085 |
|---|---|---|---|---|---|---|---|
| Mercury | mg/kg | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |

| PARAMETER | UOM | LOR | BH96(0.7m) SOIL - 8/11/2022 SE239041.086 | BH97(0.2m) SOIL - 8/11/2022 SE239041.087 | BH98(0.2m) SOIL - 8/11/2022 SE239041.088 | BR1 SOIL - 7/11/2022 SE239041.089 | BR2 SOIL - 8/11/2022 SE239041.090 |
|---|---|---|---|---|---|---|---|
| Mercury | mg/kg | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |

| PARAMETER | UOM | LOR | BR3 SOIL - 9/11/2022 SE239041.091 | BR4 SOIL - 9/11/2022 SE239041.092 | WD1 SOIL - 10/11/2022 SE239041.093 | WD2 SOIL - 10/11/2022 SE239041.094 | TRIP BLANK SOIL - 10/11/2022 SE239041.098 |
|---|---|---|---|---|---|---|---|
| Mercury | mg/kg | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |

## Moisture Content [AN002] Tested: 16/11/2022

| PARAMETER | UOM | LOR | BH11(0.2m) SOIL - 7/11/2022 SE239041.001 | BH12(0.7m) SOIL - 7/11/2022 SE239041.002 | BH13(0.2m) SOIL - 7/11/2022 SE239041.003 | BH14(0.2m) SOIL - 7/11/2022 SE239041.004 | BH15(0.5m) SOIL - 7/11/2022 SE239041.005 |
|---|---|---|---|---|---|---|---|
| % Moisture | %w/w | 1 | 18.1 | 30.9 | 19.7 | 20.7 | 23.0 |

| PARAMETER | UOM | LOR | BH16(0.2m) SOIL - 7/11/2022 SE239041.006 | BH17(0.7m) SOIL - 7/11/2022 SE239041.007 | BH18(0.2m) SOIL - 7/11/2022 SE239041.008 | BH19(0.2m) SOIL - 7/11/2022 SE239041.009 | BH20(0.2m) SOIL - 10/11/2022 SE239041.010 |
|---|---|---|---|---|---|---|---|
| % Moisture | %w/w | 1 | 21.6 | 20.7 | 17.5 | 25.2 | 13.5 |

| PARAMETER | UOM | LOR | BH21(0.5m) SOIL - 7/11/2022 SE239041.011 | BH22(0.2m) SOIL - 7/11/2022 SE239041.012 | BH23(0.2m) SOIL - 10/11/2022 SE239041.013 | BH24(0.2m) SOIL - 7/11/2022 SE239041.014 | BH25(0.2m) SOIL - 7/11/2022 SE239041.015 |
|---|---|---|---|---|---|---|---|
| % Moisture | %w/w | 1 | 18.8 | 19.2 | 19.2 | 21.3 | 17.8 |

| PARAMETER | UOM | LOR | BH26(surface sample) SOIL - 7/11/2022 SE239041.016 | BH27(0.2m) SOIL - 10/11/2022 SE239041.017 | BH28(0.4m) SOIL - 7/11/2022 SE239041.018 | BH29(0.5m) SOIL - 10/11/2022 SE239041.019 | BH30(0.2m) SOIL - 9/11/2022 SE239041.020 |
|---|---|---|---|---|---|---|---|
| % Moisture | %w/w | 1 | 13.9 | 21.4 | 11.4 | 20.2 | 24.8 |

| PARAMETER | UOM | LOR | BH31(0.2m) SOIL - 9/11/2022 SE239041.021 | BH32(0.2m) SOIL - 8/11/2022 SE239041.022 | BH33(0.2m) SOIL - 8/11/2022 SE239041.023 | BH34(0.2m) SOIL - 8/11/2022 SE239041.024 | BH35(0.2m) SOIL - 7/11/2022 SE239041.025 |
|---|---|---|---|---|---|---|---|
| % Moisture | %w/w | 1 | 20.4 | 22.6 | 53.8 | 23.1 | 15.1 |

| PARAMETER | UOM | LOR | BH36(0.6m) SOIL - 7/11/2022 SE239041.026 | BH37(0.6m) SOIL - 9/11/2022 SE239041.027 | BH38(0.2m) SOIL - 9/11/2022 SE239041.028 | BH39(0.2m) SOIL - 9/11/2022 SE239041.029 | BH40(0.2m) SOIL - 7/11/2022 SE239041.030 |
|---|---|---|---|---|---|---|---|
| % Moisture | %w/w | 1 | 13.6 | 22.2 | 32.8 | 20.6 | 21.0 |

| PARAMETER | UOM | LOR | BH41(0.5m) SOIL - 7/11/2022 SE239041.031 | BH42(0.2m) SOIL - 7/11/2022 SE239041.032 | BH43(0.2m) SOIL - 9/11/2022 SE239041.033 | BH44(0.2m) SOIL - 9/11/2022 SE239041.034 | BH45(0.2m) SOIL - 9/11/2022 SE239041.035 |
|---|---|---|---|---|---|---|---|
| % Moisture | %w/w | 1 | 24.6 | 25.7 | 23.9 | 25.2 | 23.4 |

## Moisture Content [AN002] Tested: 16/11/2022 (continued)

| PARAMETER | UOM | LOR | BH46(0.2m) SOIL - 9/11/2022 SE239041.036 | BH47(0.7m) SOIL - 8/11/2022 SE239041.037 | BH48(0.1m) SOIL - 8/11/2022 SE239041.038 | BH49(0.5m) SOIL - 8/11/2022 SE239041.039 | BH50(0.2m) SOIL - 8/11/2022 SE239041.040 |
|---|---|---|---|---|---|---|---|
| % Moisture | %w/w | 1 | 29.3 | 21.2 | 16.4 | 12.5 | 16.8 |

| PARAMETER | UOM | LOR | BH51(0.2m) SOIL - 8/11/2022 SE239041.041 | BH52(0.7m) SOIL - 8/11/2022 SE239041.042 | BH53(0.2m) SOIL - 8/11/2022 SE239041.043 | BH54(0.2m) SOIL - 9/11/2022 SE239041.044 | BH55(0.7m) SOIL - 9/11/2022 SE239041.045 |
|---|---|---|---|---|---|---|---|
| % Moisture | %w/w | 1 | 24.5 | 21.1 | 25.7 | 22.0 | 7.1 |

| PARAMETER | UOM | LOR | BH56(0.2m) SOIL - 9/11/2022 SE239041.046 | BH57(0.2m) SOIL - 9/11/2022 SE239041.047 | BH58(0.2m) SOIL - 9/11/2022 SE239041.048 | BH59(0.2m) SOIL - 9/11/2022 SE239041.049 | BH60(0.2m) SOIL - 9/11/2022 SE239041.050 |
|---|---|---|---|---|---|---|---|
| % Moisture | %w/w | 1 | 29.4 | 35.1 | 20.9 | 25.2 | 23.4 |

| PARAMETER | UOM | LOR | BH61(0.5m) SOIL - 9/11/2022 SE239041.051 | BH62(0.2m) SOIL - 9/11/2022 SE239041.052 | BH63(0.2m) SOIL - 7/11/2022 SE239041.053 | BH64(0.2m) SOIL - 8/11/2022 SE239041.054 | BH65(0.9m) SOIL - 8/11/2022 SE239041.055 |
|---|---|---|---|---|---|---|---|
| % Moisture | %w/w | 1 | 20.4 | 20.2 | 25.0 | 36.3 | 23.6 |

| PARAMETER | UOM | LOR | BH66(0.2m) SOIL - 8/11/2022 SE239041.056 | BH67(0.2m) SOIL - 8/11/2022 SE239041.057 | BH68(0.6m) SOIL - 8/11/2022 SE239041.058 | BH69(0.2m) SOIL - 8/11/2022 SE239041.059 | BH70(0.2m) SOIL - 8/11/2022 SE239041.060 |
|---|---|---|---|---|---|---|---|
| % Moisture | %w/w | 1 | 21.7 | 18.9 | 10.5 | 22.5 | 15.1 |

| PARAMETER | UOM | LOR | BH71(0.2m) SOIL - 8/11/2022 SE239041.061 | BH72(0.8m) SOIL - 8/11/2022 SE239041.062 | BH73(0.2m) SOIL - 8/11/2022 SE239041.063 | BH74(0.2m) SOIL - 8/11/2022 SE239041.064 | BH75(1.0m) SOIL - 8/11/2022 SE239041.065 |
|---|---|---|---|---|---|---|---|
| % Moisture | %w/w | 1 | 15.4 | 18.2 | 17.7 | 12.8 | 11.0 |

| PARAMETER | UOM | LOR | BH76(0.2m) SOIL - 8/11/2022 SE239041.066 | BH77(0.2m) SOIL - 8/11/2022 SE239041.067 | BH78(0.2m) SOIL - 9/11/2022 SE239041.068 | BH79(0.2m) SOIL - 9/11/2022 SE239041.069 | BH80(0.6m) SOIL - 9/11/2022 SE239041.070 |
|---|---|---|---|---|---|---|---|
| % Moisture | %w/w | 1 | 22.8 | 27.1 | 17.0 | 22.7 | 21.0 |

## Moisture Content [AN002] Tested: 16/11/2022 (continued)

| PARAMETER | UOM | LOR | BH81(0.8m) SOIL - 9/11/2022 SE239041.071 | BH82(0.2m) SOIL - 9/11/2022 SE239041.072 | BH83(0.2m) SOIL - 9/11/2022 SE239041.073 | BH84(0.1m) SOIL - 9/11/2022 SE239041.074 | BH85(0.2m) SOIL - 9/11/2022 SE239041.075 |
|---|---|---|---|---|---|---|---|
| % Moisture | %w/w | 1 | 20.3 | 22.0 | 18.2 | 21.4 | 17.9 |

| PARAMETER | UOM | LOR | BH86(0.7m) SOIL - 9/11/2022 SE239041.076 | BH87(0.8m) SOIL - 9/11/2022 SE239041.077 | BH88(0.2m) SOIL - 9/11/2022 SE239041.078 | BH89(0.2m) SOIL - 9/11/2022 SE239041.079 | BH90(0.2m) SOIL - 9/11/2022 SE239041.080 |
|---|---|---|---|---|---|---|---|
| % Moisture | %w/w | 1 | 23.0 | 27.5 | 19.3 | 14.0 | 29.6 |

| PARAMETER | UOM | LOR | BH91(1.0m) SOIL - 9/11/2022 SE239041.081 | BH92(0.2m) SOIL - 9/11/2022 SE239041.082 | BH93(0.2m) SOIL - 8/11/2022 SE239041.083 | BH94(0.2m) SOIL - 8/11/2022 SE239041.084 | BH95(0.2m) SOIL - 8/11/2022 SE239041.085 |
|---|---|---|---|---|---|---|---|
| % Moisture | %w/w | 1 | 4.2 | 16.0 | 16.0 | 18.9 | 13.0 |

| PARAMETER | UOM | LOR | BH96(0.7m) SOIL - 8/11/2022 SE239041.086 | BH97(0.2m) SOIL - 8/11/2022 SE239041.087 | BH98(0.2m) SOIL - 8/11/2022 SE239041.088 | BR1 SOIL - 7/11/2022 SE239041.089 | BR2 SOIL - 8/11/2022 SE239041.090 |
|---|---|---|---|---|---|---|---|
| % Moisture | %w/w | 1 | 23.2 | 19.8 | 18.7 | 22.1 | 20.2 |

| PARAMETER | UOM | LOR | BR3 SOIL - 9/11/2022 SE239041.091 | BR4 SOIL - 9/11/2022 SE239041.092 | WD1 SOIL - 10/11/2022 SE239041.093 | WD2 SOIL - 10/11/2022 SE239041.094 | TRIP BLANK SOIL - 10/11/2022 SE239041.098 |
|---|---|---|---|---|---|---|---|
| % Moisture | %w/w | 1 | 23.0 | 15.9 | 36.8 | 50.1 | <1.0 |

## VOCs in Water [AN433] Tested: 17/11/2022

| PARAMETER | UOM | LOR | WD1<br>WATER<br>-<br>10/11/2022<br>SE239041.095 | WD2<br>WATER<br>-<br>10/11/2022<br>SE239041.096 | RIN<br>WATER<br>-<br>10/11/2022<br>SE239041.097 |
|---|---|---|---|---|---|
| Benzene | µg/L | 0.5 | <0.5 | <0.5 | <0.5 |
| Toluene | µg/L | 0.5 | **42** | **4.6** | <0.5 |
| Ethylbenzene | µg/L | 0.5 | <0.5 | <0.5 | <0.5 |
| m/p-xylene | µg/L | 1 | <1 | <1 | <1 |
| o-xylene | µg/L | 0.5 | <0.5 | <0.5 | <0.5 |
| Total Xylenes | µg/L | 1.5 | <1.5 | <1.5 | <1.5 |
| Total BTEX | µg/L | 3 | **42** | **5** | <3 |
| Naphthalene (VOC)* | µg/L | 0.5 | <0.5 | <0.5 | <0.5 |

## Volatile Petroleum Hydrocarbons in Water [AN433] Tested: 17/11/2022

| PARAMETER | UOM | LOR | WD1<br>WATER<br>-<br>10/11/2022<br>SE239041.095 | WD2<br>WATER<br>-<br>10/11/2022<br>SE239041.096 | RIN<br>WATER<br>-<br>10/11/2022<br>SE239041.097 |
|---|---|---|---|---|---|
| TRH C6-C9 | µg/L | 40 | **96** | <40 | <40 |
| Benzene (F0) | µg/L | 0.5 | <0.5 | <0.5 | <0.5 |
| TRH C6-C10 | µg/L | 50 | **98** | <50 | <50 |
| TRH C6-C10 minus BTEX (F1) | µg/L | 50 | **56** | <50 | <50 |

## TRH (Total Recoverable Hydrocarbons) in Water [AN403] Tested: 16/11/2022

| PARAMETER | UOM | LOR | WD1<br>WATER<br>-<br>10/11/2022<br>SE239041.095 | WD2<br>WATER<br>-<br>10/11/2022<br>SE239041.096 | RIN<br>WATER<br>-<br>10/11/2022<br>SE239041.097 |
|---|---|---|---|---|---|
| TRH C10-C14 | µg/L | 50 | **240** | <50 | <50 |
| TRH C15-C28 | µg/L | 200 | **960** | **210** | <200 |
| TRH C29-C36 | µg/L | 200 | **740** | **300** | <200 |
| TRH C37-C40 | µg/L | 200 | <200 | <200 | <200 |
| TRH >C10-C16 | µg/L | 60 | **280** | <60 | <60 |
| TRH >C10-C16 - Naphthalene (F2) | µg/L | 60 | **280** | <60 | <60 |
| TRH >C16-C34 (F3) | µg/L | 500 | **1500** | <500 | <500 |
| TRH >C34-C40 (F4) | µg/L | 500 | <500 | <500 | <500 |
| TRH C10-C40 | µg/L | 320 | **2000** | **530** | <320 |

## PAH (Polynuclear Aromatic Hydrocarbons) in Water [AN420] Tested: 16/11/2022

| PARAMETER | UOM | LOR | WD1<br>WATER<br>-<br>10/11/2022<br>SE239041.095 | WD2<br>WATER<br>-<br>10/11/2022<br>SE239041.096 | RIN<br>WATER<br>-<br>10/11/2022<br>SE239041.097 |
|---|---|---|---|---|---|
| Naphthalene | µg/L | 0.1 | <0.1 | <0.1 | <0.1 |
| 2-methylnaphthalene | µg/L | 0.1 | <0.1 | <0.1 | <0.1 |
| 1-methylnaphthalene | µg/L | 0.1 | <0.1 | <0.1 | <0.1 |
| Acenaphthylene | µg/L | 0.1 | <0.1 | <0.1 | <0.1 |
| Acenaphthene | µg/L | 0.1 | <0.1 | <0.1 | <0.1 |
| Fluorene | µg/L | 0.1 | <0.1 | <0.1 | <0.1 |
| Phenanthrene | µg/L | 0.1 | <0.1 | <0.1 | <0.1 |
| Anthracene | µg/L | 0.1 | <0.1 | <0.1 | <0.1 |
| Fluoranthene | µg/L | 0.1 | <0.1 | <0.1 | <0.1 |
| Pyrene | µg/L | 0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(a)anthracene | µg/L | 0.1 | <0.1 | <0.1 | <0.1 |
| Chrysene | µg/L | 0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(b&j)fluoranthene | µg/L | 0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(k)fluoranthene | µg/L | 0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(a)pyrene | µg/L | 0.1 | <0.1 | <0.1 | <0.1 |
| Indeno(1,2,3-cd)pyrene | µg/L | 0.1 | <0.1 | <0.1 | <0.1 |
| Dibenzo(ah)anthracene | µg/L | 0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(ghi)perylene | µg/L | 0.1 | <0.1 | <0.1 | <0.1 |
| Total PAH (18) | µg/L | 1 | <1 | <1 | <1 |

## OC Pesticides in Water [AN420] Tested: 16/11/2022

| PARAMETER | UOM | LOR | WD1<br>WATER<br>-<br>10/11/2022<br>SE239041.095 | WD2<br>WATER<br>-<br>10/11/2022<br>SE239041.096 | RIN<br>WATER<br>-<br>10/11/2022<br>SE239041.097 |
|---|---|---|---|---|---|
| Alpha BHC | µg/L | 0.1 | <0.1 | <0.1 | <0.1 |
| Hexachlorobenzene (HCB) | µg/L | 0.1 | <0.1 | <0.1 | <0.1 |
| Beta BHC | µg/L | 0.1 | <0.1 | <0.1 | <0.1 |
| Lindane (gamma BHC) | µg/L | 0.1 | <0.1 | <0.1 | <0.1 |
| Delta BHC | µg/L | 0.1 | <0.1 | <0.1 | <0.1 |
| Heptachlor | µg/L | 0.1 | <0.1 | <0.1 | <0.1 |
| Aldrin | µg/L | 0.1 | <0.1 | <0.1 | <0.1 |
| Heptachlor epoxide | µg/L | 0.1 | <0.1 | <0.1 | <0.1 |
| Gamma Chlordane | µg/L | 0.1 | <0.1 | <0.1 | <0.1 |
| Alpha Chlordane | µg/L | 0.1 | <0.1 | <0.1 | <0.1 |
| Alpha Endosulfan | µg/L | 0.1 | <0.1 | <0.1 | <0.1 |
| o,p'-DDE | µg/L | 0.1 | <0.1 | <0.1 | <0.1 |
| p,p'-DDE | µg/L | 0.1 | <0.1 | <0.1 | <0.1 |
| Dieldrin | µg/L | 0.1 | <0.1 | <0.1 | <0.1 |
| Endrin | µg/L | 0.1 | <0.1 | <0.1 | <0.1 |
| Beta Endosulfan | µg/L | 0.1 | <0.1 | <0.1 | <0.1 |
| o,p'-DDD | µg/L | 0.1 | <0.1 | <0.1 | <0.1 |
| p,p'-DDD | µg/L | 0.1 | <0.1 | <0.1 | <0.1 |
| Endosulfan sulphate | µg/L | 0.1 | <0.1 | <0.1 | <0.1 |
| o,p'-DDT | µg/L | 0.1 | <0.1 | <0.1 | <0.1 |
| p,p'-DDT | µg/L | 0.1 | <0.1 | <0.1 | <0.1 |
| Endrin ketone | µg/L | 0.1 | <0.1 | <0.1 | <0.1 |
| Methoxychlor | µg/L | 0.1 | <0.1 | <0.1 | <0.1 |
| trans-Nonachlor | µg/L | 0.1 | <0.1 | <0.1 | <0.1 |
| Endrin aldehyde | µg/L | 0.1 | <0.1 | <0.1 | <0.1 |
| Isodrin | µg/L | 0.1 | <0.1 | <0.1 | <0.1 |
| Mirex | µg/L | 0.1 | <0.1 | <0.1 | <0.1 |
| Total OC | µg/L | 1 | <1 | <1 | <1 |
| Total OC | µg/L | 1 | <1 | <1 | <1 |

## OP Pesticides in Water [AN420] Tested: 16/11/2022

| PARAMETER | UOM | LOR | WD1<br>WATER<br>-<br>10/11/2022<br>SE239041.095 | WD2<br>WATER<br>-<br>10/11/2022<br>SE239041.096 | RIN<br>WATER<br>-<br>10/11/2022<br>SE239041.097 |
|---|---|---|---|---|---|
| Dichlorvos | µg/L | 0.5 | <0.5 | <0.5 | <0.5 |
| Dimethoate | µg/L | 0.5 | <0.5 | <0.5 | <0.5 |
| Diazinon (Dimpylate) | µg/L | 0.5 | <0.5 | <0.5 | <0.5 |
| Fenitrothion | µg/L | 0.2 | <0.2 | <0.2 | <0.2 |
| Malathion | µg/L | 0.2 | <0.2 | <0.2 | <0.2 |
| Chlorpyrifos (Chlorpyrifos Ethyl) | µg/L | 0.2 | <0.2 | <0.2 | <0.2 |
| Parathion-ethyl (Parathion) | µg/L | 0.2 | <0.2 | <0.2 | <0.2 |
| Bromophos Ethyl | µg/L | 0.2 | <0.2 | <0.2 | <0.2 |
| Methidathion | µg/L | 0.5 | <0.5 | <0.5 | <0.5 |
| Ethion | µg/L | 0.2 | <0.2 | <0.2 | <0.2 |
| Azinphos-methyl | µg/L | 0.2 | <0.2 | <0.2 | <0.2 |

## PCBs in Water [AN420] Tested: 16/11/2022

| PARAMETER | UOM | LOR | WD1<br>WATER<br>-<br>10/11/2022<br>SE239041.095 | WD2<br>WATER<br>-<br>10/11/2022<br>SE239041.096 | RIN<br>WATER<br>-<br>10/11/2022<br>SE239041.097 |
|---|---|---|---|---|---|
| Arochlor 1016 | µg/L | 1 | <1 | <1 | <1 |
| Arochlor 1221 | µg/L | 1 | <1 | <1 | <1 |
| Arochlor 1232 | µg/L | 1 | <1 | <1 | <1 |
| Arochlor 1242 | µg/L | 1 | <1 | <1 | <1 |
| Arochlor 1248 | µg/L | 1 | <1 | <1 | <1 |
| Arochlor 1254 | µg/L | 1 | <1 | <1 | <1 |
| Arochlor 1260 | µg/L | 1 | <1 | <1 | <1 |
| Arochlor 1262 | µg/L | 1 | <1 | <1 | <1 |
| Arochlor 1268 | µg/L | 1 | <1 | <1 | <1 |
| Total Arochlors* | µg/L | 5 | <5 | <5 | <5 |

## Trace Metals (Dissolved) in Water by ICPMS [AN318] Tested: 16/11/2022

| PARAMETER | UOM | LOR | WD1<br>WATER<br>-<br>10/11/2022<br>SE239041.095 | WD2<br>WATER<br>-<br>10/11/2022<br>SE239041.096 | RIN<br>WATER<br>-<br>10/11/2022<br>SE239041.097 |
|---|---|---|---|---|---|
| Arsenic | µg/L | 1 | **2** | **1** | <1 |
| Cadmium | µg/L | 0.1 | <0.1 | <0.1 | <0.1 |
| Chromium | µg/L | 1 | **3** | <1 | <1 |
| Copper | µg/L | 1 | **2** | **3** | <1 |
| Lead | µg/L | 1 | <1 | <1 | <1 |
| Nickel | µg/L | 1 | **7** | **3** | <1 |
| Zinc | µg/L | 5 | <5 | **16** | <5 |

## Mercury (dissolved) in Water [AN311(Perth)/AN312] Tested: 16/11/2022

| PARAMETER | UOM | LOR | WD1<br>WATER<br>-<br>10/11/2022<br>SE239041.095 | WD2<br>WATER<br>-<br>10/11/2022<br>SE239041.096 | RIN<br>WATER<br>-<br>10/11/2022<br>SE239041.097 |
|---|---|---|---|---|---|
| Mercury | mg/L | 0.0001 | <0.0001 | <0.0001 | <0.0001 |

| METHOD | METHODOLOGY SUMMARY |
|---|---|
| AN002 | The test is carried out by drying (at either 40°C or 105°C) a known mass of sample in a weighed evaporating basin. After fully dry the sample is re-weighed. Samples such as sludge and sediment having high percentages of moisture will take some time in a drying oven for complete removal of water. |
| AN020 | Unpreserved water sample is filtered through a 0.45µm membrane filter and acidified with nitric acid similar to APHA3030B. |
| AN040/AN320 | A portion of sample is digested with nitric acid to decompose organic matter and hydrochloric acid to complete the digestion of metals. The digest is then analysed by ICP OES with metals results reported on the dried sample basis. Based on USEPA method 200.8 and 6010C. |
| AN040 | A portion of sample is digested with Nitric acid to decompose organic matter and Hydrochloric acid to complete the digestion of metals and then filtered for analysis by ASS or ICP as per USEPA Method 200.8. |
| AN311(Perth)/AN312 | Mercury by Cold Vapour AAS in Waters: Mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500. |
| AN312 | Mercury by Cold Vapour AAS in Soils: After digestion with nitric acid, hydrogen peroxide and hydrochloric acid, mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500 |
| AN318 | Determination of elements at trace level in waters by ICP-MS technique,, referenced to USEPA 6020B and USEPA 200.8 (5.4). |
| AN403 | Total Recoverable Hydrocarbons: Determination of Hydrocarbons by gas chromatography after a solvent extraction. Detection is by flame ionisation detector (FID) that produces an electronic signal in proportion to the combustible matter passing through it. Total Recoverable Hydrocarbons (TRH) are routinely reported as four alkane groupings based on the carbon chain length of the compounds: C6-C9, C10-C14, C15-C28 and C29-C36 and in recognition of the NEPM 1999 (2013), >C10-C16 (F2), >C16-C34 (F3) and >C34-C40 (F4). F2 is reported directly and also corrected by subtracting Naphthalene (from VOC method AN433) where available. |
| AN403 | Additionally, the volatile C6-C9 fraction may be determined by a purge and trap technique and GC/MS because of the potential for volatiles loss. Total Recoverable Hydrocarbons - Silica (TRH-Si) follows the same method of analysis after silica gel cleanup of the solvent extract. Aliphatic/Aromatic Speciation follows the same method of analysis after fractionation of the solvent extract over silica with differential polarity of the eluent solvents. |
| AN403 | The GC/FID method is not well suited to the analysis of refined high boiling point materials (ie lubricating oils or greases) but is particularly suited for measuring diesel, kerosene and petrol if care to control volatility is taken. This method will detect naturally occurring hydrocarbons, lipids, animal fats, phenols and PAHs if they are present at sufficient levels, dependent on the use of specific cleanup/fractionation techniques. Reference USEPA 3510B, 8015B. |
| AN420 | (SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols (etc) in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).<br>Total PAH calculated from individual analyte detections at or above the limit of reporting. |
| 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. |

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:

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

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

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

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# STATEMENT OF QA/QC PERFORMANCE

**SE239041 R1**

## CLIENT DETAILS

| | |
|---|---|
| Contact | Kannan Kaliappan |
| Client | K2 CONSULTING GROUP |
| Address | SUITE 222, 20B LEXINGTON DRIVE<br>BELLA VISTA NSW 2153 |
| Telephone | 61 8 00 523 000 |
| Facsimile | (Not specified) |
| Email | kannan@k2consultinggroup.com.au |
| Project | **ST-01-1533 (515 Crookwell Road, Kingsdal** |
| Order Number | **ST-01-1533** |
| Samples | 99 |

## LABORATORY DETAILS

| | |
|---|---|
| Manager | Huong Crawford |
| Laboratory | SGS Alexandria Environmental |
| Address | Unit 16, 33 Maddox St<br>Alexandria NSW 2015 |
| Telephone | +61 2 8594 0400 |
| Facsimile | +61 2 8594 0499 |
| Email | au.environmental.sydney@sgs.com |
| SGS Reference | **SE239041 R1** |
| Date Received | 11 Nov 2022 |
| Date Reported | 23 Nov 2022 |

## COMMENTS

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

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

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

| | | |
|---|---|---|
| Analysis Date | Moisture Content | 76 items |
| | VOC's in Soil | 52 items |
| | Volatile Petroleum Hydrocarbons in Soil | 92 items |
| Surrogate | OC Pesticides in Water | 1 item |
| | OP Pesticides in Water | 1 item |
| | PAH (Polynuclear Aromatic Hydrocarbons) in Water | 2 items |
| | PCBs in Water | 1 item |
| | VOC's in Soil | 1 item |
| | Volatile Petroleum Hydrocarbons in Soil | 1 item |
| Duplicate | Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES | 3 items |
| Matrix Spike | Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES | 1 item |
| | Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES | 3 items |

## SAMPLE SUMMARY

| | | | |
|---|---|---|---|
| Samples clearly labelled | Yes | Complete documentation received | Yes |
| Sample container provider | SGS | Sample cooling method | Ice Bricks |
| Samples received in correct containers | Yes | Sample counts by matrix | 96 Soil, 3 Water |
| Date documentation received | 14/11/2022@12:23p | Type of documentation received | COC |
| Samples received in good order | Yes | Samples received without headspace | Yes |
| Sample temperature upon receipt | 14.6C | Sufficient sample for analysis | Yes |
| Turnaround time requested | Standard | | |

# HOLDING TIME SUMMARY

SE239041 R1

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 (dissolved) in Water** — Method: ME-(AU)-[ENV]AN311(Perth)/AN312

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| WD1 | SE239041.095 | LB263955 | 10 Nov 2022 | 11 Nov 2022 | 08 Dec 2022 | 16 Nov 2022 | 08 Dec 2022 | 17 Nov 2022 |
| WD2 | SE239041.096 | LB263955 | 10 Nov 2022 | 11 Nov 2022 | 08 Dec 2022 | 16 Nov 2022 | 08 Dec 2022 | 17 Nov 2022 |
| RIN | SE239041.097 | LB263955 | 10 Nov 2022 | 11 Nov 2022 | 08 Dec 2022 | 16 Nov 2022 | 08 Dec 2022 | 17 Nov 2022 |

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH11(0.2m) | SE239041.001 | LB264256 | 07 Nov 2022 | 11 Nov 2022 | 05 Dec 2022 | 18 Nov 2022 | 05 Dec 2022 | 22 Nov 2022 |
| BH12(0.7m) | SE239041.002 | LB264256 | 07 Nov 2022 | 11 Nov 2022 | 05 Dec 2022 | 18 Nov 2022 | 05 Dec 2022 | 22 Nov 2022 |
| BH13(0.2m) | SE239041.003 | LB264256 | 07 Nov 2022 | 11 Nov 2022 | 05 Dec 2022 | 18 Nov 2022 | 05 Dec 2022 | 22 Nov 2022 |
| BH14(0.2m) | SE239041.004 | LB264256 | 07 Nov 2022 | 11 Nov 2022 | 05 Dec 2022 | 18 Nov 2022 | 05 Dec 2022 | 22 Nov 2022 |
| BH15(0.5m) | SE239041.005 | LB264256 | 07 Nov 2022 | 11 Nov 2022 | 05 Dec 2022 | 18 Nov 2022 | 05 Dec 2022 | 22 Nov 2022 |
| BH16(0.2m) | SE239041.006 | LB264256 | 07 Nov 2022 | 11 Nov 2022 | 05 Dec 2022 | 18 Nov 2022 | 05 Dec 2022 | 22 Nov 2022 |
| BH17(0.7m) | SE239041.007 | LB264256 | 07 Nov 2022 | 11 Nov 2022 | 05 Dec 2022 | 18 Nov 2022 | 05 Dec 2022 | 22 Nov 2022 |
| BH18(0.2m) | SE239041.008 | LB264256 | 07 Nov 2022 | 11 Nov 2022 | 05 Dec 2022 | 18 Nov 2022 | 05 Dec 2022 | 22 Nov 2022 |
| BH19(0.2m) | SE239041.009 | LB264256 | 07 Nov 2022 | 11 Nov 2022 | 05 Dec 2022 | 18 Nov 2022 | 05 Dec 2022 | 22 Nov 2022 |
| BH20(0.2m) | SE239041.010 | LB264256 | 10 Nov 2022 | 11 Nov 2022 | 08 Dec 2022 | 18 Nov 2022 | 08 Dec 2022 | 22 Nov 2022 |
| BH21(0.5m) | SE239041.011 | LB264256 | 07 Nov 2022 | 11 Nov 2022 | 05 Dec 2022 | 18 Nov 2022 | 05 Dec 2022 | 22 Nov 2022 |
| BH22(0.2m) | SE239041.012 | LB264256 | 07 Nov 2022 | 11 Nov 2022 | 05 Dec 2022 | 18 Nov 2022 | 05 Dec 2022 | 22 Nov 2022 |
| BH23(0.2m) | SE239041.013 | LB264256 | 10 Nov 2022 | 11 Nov 2022 | 08 Dec 2022 | 18 Nov 2022 | 08 Dec 2022 | 22 Nov 2022 |
| BH24(0.2m) | SE239041.014 | LB264256 | 07 Nov 2022 | 11 Nov 2022 | 05 Dec 2022 | 18 Nov 2022 | 05 Dec 2022 | 22 Nov 2022 |
| BH25(0.2m) | SE239041.015 | LB264256 | 07 Nov 2022 | 11 Nov 2022 | 05 Dec 2022 | 18 Nov 2022 | 05 Dec 2022 | 22 Nov 2022 |
| BH26(surface sample) | SE239041.016 | LB264256 | 07 Nov 2022 | 11 Nov 2022 | 05 Dec 2022 | 18 Nov 2022 | 05 Dec 2022 | 22 Nov 2022 |
| BH27(0.2m) | SE239041.017 | LB264256 | 10 Nov 2022 | 11 Nov 2022 | 08 Dec 2022 | 18 Nov 2022 | 08 Dec 2022 | 22 Nov 2022 |
| BH28(0.4m) | SE239041.018 | LB264256 | 07 Nov 2022 | 11 Nov 2022 | 05 Dec 2022 | 18 Nov 2022 | 05 Dec 2022 | 22 Nov 2022 |
| BH29(0.5m) | SE239041.019 | LB264256 | 10 Nov 2022 | 11 Nov 2022 | 08 Dec 2022 | 18 Nov 2022 | 08 Dec 2022 | 22 Nov 2022 |
| BH30(0.2m) | SE239041.020 | LB264257 | 09 Nov 2022 | 11 Nov 2022 | 07 Dec 2022 | 18 Nov 2022 | 07 Dec 2022 | 22 Nov 2022 |
| BH31(0.2m) | SE239041.021 | LB264257 | 09 Nov 2022 | 11 Nov 2022 | 07 Dec 2022 | 18 Nov 2022 | 07 Dec 2022 | 22 Nov 2022 |
| BH32(0.2m) | SE239041.022 | LB264257 | 08 Nov 2022 | 11 Nov 2022 | 06 Dec 2022 | 18 Nov 2022 | 06 Dec 2022 | 22 Nov 2022 |
| BH33(0.2m) | SE239041.023 | LB264257 | 08 Nov 2022 | 11 Nov 2022 | 06 Dec 2022 | 18 Nov 2022 | 06 Dec 2022 | 22 Nov 2022 |
| BH34(0.2m) | SE239041.024 | LB264257 | 08 Nov 2022 | 11 Nov 2022 | 06 Dec 2022 | 18 Nov 2022 | 06 Dec 2022 | 22 Nov 2022 |
| BH35(0.2m) | SE239041.025 | LB264257 | 07 Nov 2022 | 11 Nov 2022 | 05 Dec 2022 | 18 Nov 2022 | 05 Dec 2022 | 22 Nov 2022 |
| BH36(0.6m) | SE239041.026 | LB264257 | 07 Nov 2022 | 11 Nov 2022 | 05 Dec 2022 | 18 Nov 2022 | 05 Dec 2022 | 22 Nov 2022 |
| BH37(0.6m) | SE239041.027 | LB264257 | 09 Nov 2022 | 11 Nov 2022 | 07 Dec 2022 | 18 Nov 2022 | 07 Dec 2022 | 22 Nov 2022 |
| BH38(0.2m) | SE239041.028 | LB264257 | 09 Nov 2022 | 11 Nov 2022 | 07 Dec 2022 | 18 Nov 2022 | 07 Dec 2022 | 22 Nov 2022 |
| BH39(0.2m) | SE239041.029 | LB264257 | 09 Nov 2022 | 11 Nov 2022 | 07 Dec 2022 | 18 Nov 2022 | 07 Dec 2022 | 22 Nov 2022 |
| BH40(0.2m) | SE239041.030 | LB264257 | 07 Nov 2022 | 11 Nov 2022 | 05 Dec 2022 | 18 Nov 2022 | 05 Dec 2022 | 22 Nov 2022 |
| BH41(0.5m) | SE239041.031 | LB264257 | 07 Nov 2022 | 11 Nov 2022 | 05 Dec 2022 | 18 Nov 2022 | 05 Dec 2022 | 22 Nov 2022 |
| BH42(0.2m) | SE239041.032 | LB264257 | 07 Nov 2022 | 11 Nov 2022 | 05 Dec 2022 | 18 Nov 2022 | 05 Dec 2022 | 22 Nov 2022 |
| BH43(0.2m) | SE239041.033 | LB264257 | 09 Nov 2022 | 11 Nov 2022 | 07 Dec 2022 | 18 Nov 2022 | 07 Dec 2022 | 22 Nov 2022 |
| BH44(0.2m) | SE239041.034 | LB264257 | 09 Nov 2022 | 11 Nov 2022 | 07 Dec 2022 | 18 Nov 2022 | 07 Dec 2022 | 22 Nov 2022 |
| BH45(0.2m) | SE239041.035 | LB264257 | 09 Nov 2022 | 11 Nov 2022 | 07 Dec 2022 | 18 Nov 2022 | 07 Dec 2022 | 22 Nov 2022 |
| BH46(0.2m) | SE239041.036 | LB264257 | 09 Nov 2022 | 11 Nov 2022 | 07 Dec 2022 | 18 Nov 2022 | 07 Dec 2022 | 22 Nov 2022 |
| BH47(0.7m) | SE239041.037 | LB264257 | 08 Nov 2022 | 11 Nov 2022 | 06 Dec 2022 | 18 Nov 2022 | 06 Dec 2022 | 22 Nov 2022 |
| BH48(0.1m) | SE239041.038 | LB264257 | 08 Nov 2022 | 11 Nov 2022 | 06 Dec 2022 | 18 Nov 2022 | 06 Dec 2022 | 22 Nov 2022 |
| BH49(0.5m) | SE239041.039 | LB264259 | 08 Nov 2022 | 11 Nov 2022 | 06 Dec 2022 | 18 Nov 2022 | 06 Dec 2022 | 22 Nov 2022 |
| BH50(0.2m) | SE239041.040 | LB264259 | 08 Nov 2022 | 11 Nov 2022 | 06 Dec 2022 | 18 Nov 2022 | 06 Dec 2022 | 22 Nov 2022 |
| BH51(0.2m) | SE239041.041 | LB264259 | 08 Nov 2022 | 11 Nov 2022 | 06 Dec 2022 | 18 Nov 2022 | 06 Dec 2022 | 22 Nov 2022 |
| BH52(0.7m) | SE239041.042 | LB264259 | 08 Nov 2022 | 11 Nov 2022 | 06 Dec 2022 | 18 Nov 2022 | 06 Dec 2022 | 22 Nov 2022 |
| BH53(0.2m) | SE239041.043 | LB264259 | 08 Nov 2022 | 11 Nov 2022 | 06 Dec 2022 | 18 Nov 2022 | 06 Dec 2022 | 22 Nov 2022 |
| BH54(0.2m) | SE239041.044 | LB264259 | 09 Nov 2022 | 11 Nov 2022 | 07 Dec 2022 | 18 Nov 2022 | 07 Dec 2022 | 22 Nov 2022 |
| BH55(0.7m) | SE239041.045 | LB264259 | 09 Nov 2022 | 11 Nov 2022 | 07 Dec 2022 | 18 Nov 2022 | 07 Dec 2022 | 22 Nov 2022 |
| BH56(0.2m) | SE239041.046 | LB264259 | 09 Nov 2022 | 11 Nov 2022 | 07 Dec 2022 | 18 Nov 2022 | 07 Dec 2022 | 22 Nov 2022 |
| BH57(0.2m) | SE239041.047 | LB264259 | 09 Nov 2022 | 11 Nov 2022 | 07 Dec 2022 | 18 Nov 2022 | 07 Dec 2022 | 22 Nov 2022 |
| BH58(0.2m) | SE239041.048 | LB264259 | 09 Nov 2022 | 11 Nov 2022 | 07 Dec 2022 | 18 Nov 2022 | 07 Dec 2022 | 22 Nov 2022 |
| BH59(0.2m) | SE239041.049 | LB264259 | 09 Nov 2022 | 11 Nov 2022 | 07 Dec 2022 | 18 Nov 2022 | 07 Dec 2022 | 22 Nov 2022 |
| BH60(0.2m) | SE239041.050 | LB264259 | 09 Nov 2022 | 11 Nov 2022 | 07 Dec 2022 | 18 Nov 2022 | 07 Dec 2022 | 22 Nov 2022 |
| BH61(0.5m) | SE239041.051 | LB264259 | 09 Nov 2022 | 11 Nov 2022 | 07 Dec 2022 | 18 Nov 2022 | 07 Dec 2022 | 22 Nov 2022 |
| BH62(0.2m) | SE239041.052 | LB264259 | 09 Nov 2022 | 11 Nov 2022 | 07 Dec 2022 | 18 Nov 2022 | 07 Dec 2022 | 22 Nov 2022 |
| BH63(0.2m) | SE239041.053 | LB264259 | 07 Nov 2022 | 11 Nov 2022 | 05 Dec 2022 | 18 Nov 2022 | 05 Dec 2022 | 22 Nov 2022 |
| BH64(0.2m) | SE239041.054 | LB264259 | 08 Nov 2022 | 11 Nov 2022 | 06 Dec 2022 | 18 Nov 2022 | 06 Dec 2022 | 22 Nov 2022 |

# HOLDING TIME SUMMARY

SE239041 R1

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

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

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

## Mercury in Soil (continued)

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH65(0.9m) | SE239041.055 | LB264259 | 08 Nov 2022 | 11 Nov 2022 | 06 Dec 2022 | 18 Nov 2022 | 06 Dec 2022 | 22 Nov 2022 |
| BH66(0.2m) | SE239041.056 | LB264259 | 08 Nov 2022 | 11 Nov 2022 | 06 Dec 2022 | 18 Nov 2022 | 06 Dec 2022 | 22 Nov 2022 |
| BH67(0.2m) | SE239041.057 | LB264259 | 08 Nov 2022 | 11 Nov 2022 | 06 Dec 2022 | 18 Nov 2022 | 06 Dec 2022 | 22 Nov 2022 |
| BH68(0.6m) | SE239041.058 | LB264260 | 08 Nov 2022 | 11 Nov 2022 | 06 Dec 2022 | 18 Nov 2022 | 06 Dec 2022 | 22 Nov 2022 |
| BH69(0.2m) | SE239041.059 | LB264260 | 08 Nov 2022 | 11 Nov 2022 | 06 Dec 2022 | 18 Nov 2022 | 06 Dec 2022 | 22 Nov 2022 |
| BH70(0.2m) | SE239041.060 | LB264260 | 08 Nov 2022 | 11 Nov 2022 | 06 Dec 2022 | 18 Nov 2022 | 06 Dec 2022 | 22 Nov 2022 |
| BH71(0.2m) | SE239041.061 | LB264260 | 08 Nov 2022 | 11 Nov 2022 | 06 Dec 2022 | 18 Nov 2022 | 06 Dec 2022 | 22 Nov 2022 |
| BH72(0.8m) | SE239041.062 | LB264260 | 08 Nov 2022 | 11 Nov 2022 | 06 Dec 2022 | 18 Nov 2022 | 06 Dec 2022 | 22 Nov 2022 |
| BH73(0.2m) | SE239041.063 | LB264260 | 08 Nov 2022 | 11 Nov 2022 | 06 Dec 2022 | 18 Nov 2022 | 06 Dec 2022 | 22 Nov 2022 |
| BH74(0.2m) | SE239041.064 | LB264260 | 08 Nov 2022 | 11 Nov 2022 | 06 Dec 2022 | 18 Nov 2022 | 06 Dec 2022 | 22 Nov 2022 |
| BH75(1.0m) | SE239041.065 | LB264260 | 08 Nov 2022 | 11 Nov 2022 | 06 Dec 2022 | 18 Nov 2022 | 06 Dec 2022 | 22 Nov 2022 |
| BH76(0.2m) | SE239041.066 | LB264260 | 08 Nov 2022 | 11 Nov 2022 | 06 Dec 2022 | 18 Nov 2022 | 06 Dec 2022 | 22 Nov 2022 |
| BH77(0.2m) | SE239041.067 | LB264260 | 08 Nov 2022 | 11 Nov 2022 | 06 Dec 2022 | 18 Nov 2022 | 06 Dec 2022 | 22 Nov 2022 |
| BH78(0.2m) | SE239041.068 | LB264260 | 09 Nov 2022 | 11 Nov 2022 | 07 Dec 2022 | 18 Nov 2022 | 07 Dec 2022 | 22 Nov 2022 |
| BH79(0.2m) | SE239041.069 | LB264260 | 09 Nov 2022 | 11 Nov 2022 | 07 Dec 2022 | 18 Nov 2022 | 07 Dec 2022 | 22 Nov 2022 |
| BH80(0.6m) | SE239041.070 | LB264260 | 09 Nov 2022 | 11 Nov 2022 | 07 Dec 2022 | 18 Nov 2022 | 07 Dec 2022 | 22 Nov 2022 |
| BH81(0.8m) | SE239041.071 | LB264260 | 09 Nov 2022 | 11 Nov 2022 | 07 Dec 2022 | 18 Nov 2022 | 07 Dec 2022 | 22 Nov 2022 |
| BH82(0.2m) | SE239041.072 | LB264260 | 09 Nov 2022 | 11 Nov 2022 | 07 Dec 2022 | 18 Nov 2022 | 07 Dec 2022 | 22 Nov 2022 |
| BH83(0.2m) | SE239041.073 | LB264260 | 09 Nov 2022 | 11 Nov 2022 | 07 Dec 2022 | 18 Nov 2022 | 07 Dec 2022 | 22 Nov 2022 |
| BH84(0.1m) | SE239041.074 | LB264260 | 09 Nov 2022 | 11 Nov 2022 | 07 Dec 2022 | 18 Nov 2022 | 07 Dec 2022 | 22 Nov 2022 |
| BH85(0.2m) | SE239041.075 | LB264260 | 09 Nov 2022 | 11 Nov 2022 | 07 Dec 2022 | 18 Nov 2022 | 07 Dec 2022 | 22 Nov 2022 |
| BH86(0.7m) | SE239041.076 | LB264260 | 09 Nov 2022 | 11 Nov 2022 | 07 Dec 2022 | 18 Nov 2022 | 07 Dec 2022 | 22 Nov 2022 |
| BH87(0.8m) | SE239041.077 | LB264261 | 09 Nov 2022 | 11 Nov 2022 | 07 Dec 2022 | 18 Nov 2022 | 07 Dec 2022 | 22 Nov 2022 |
| BH88(0.2m) | SE239041.078 | LB264261 | 09 Nov 2022 | 11 Nov 2022 | 07 Dec 2022 | 18 Nov 2022 | 07 Dec 2022 | 22 Nov 2022 |
| BH89(0.2m) | SE239041.079 | LB264261 | 09 Nov 2022 | 11 Nov 2022 | 07 Dec 2022 | 18 Nov 2022 | 07 Dec 2022 | 22 Nov 2022 |
| BH90(0.2m) | SE239041.080 | LB264261 | 09 Nov 2022 | 11 Nov 2022 | 07 Dec 2022 | 18 Nov 2022 | 07 Dec 2022 | 22 Nov 2022 |
| BH91(1.0m) | SE239041.081 | LB264261 | 09 Nov 2022 | 11 Nov 2022 | 07 Dec 2022 | 18 Nov 2022 | 07 Dec 2022 | 22 Nov 2022 |
| BH92(0.2m) | SE239041.082 | LB264261 | 09 Nov 2022 | 11 Nov 2022 | 07 Dec 2022 | 18 Nov 2022 | 07 Dec 2022 | 22 Nov 2022 |
| BH93(0.2m) | SE239041.083 | LB264261 | 08 Nov 2022 | 11 Nov 2022 | 06 Dec 2022 | 18 Nov 2022 | 06 Dec 2022 | 22 Nov 2022 |
| BH94(0.2m) | SE239041.084 | LB264261 | 08 Nov 2022 | 11 Nov 2022 | 06 Dec 2022 | 18 Nov 2022 | 06 Dec 2022 | 22 Nov 2022 |
| BH95(0.2m) | SE239041.085 | LB264261 | 08 Nov 2022 | 11 Nov 2022 | 06 Dec 2022 | 18 Nov 2022 | 06 Dec 2022 | 22 Nov 2022 |
| BH96(0.7m) | SE239041.086 | LB264261 | 08 Nov 2022 | 11 Nov 2022 | 06 Dec 2022 | 18 Nov 2022 | 06 Dec 2022 | 22 Nov 2022 |
| BH97(0.2m) | SE239041.087 | LB264261 | 08 Nov 2022 | 11 Nov 2022 | 06 Dec 2022 | 18 Nov 2022 | 06 Dec 2022 | 22 Nov 2022 |
| BH98(0.2m) | SE239041.088 | LB264261 | 08 Nov 2022 | 11 Nov 2022 | 06 Dec 2022 | 18 Nov 2022 | 06 Dec 2022 | 22 Nov 2022 |
| BR1 | SE239041.089 | LB264261 | 07 Nov 2022 | 11 Nov 2022 | 05 Dec 2022 | 18 Nov 2022 | 05 Dec 2022 | 22 Nov 2022 |
| BR2 | SE239041.090 | LB264261 | 08 Nov 2022 | 11 Nov 2022 | 06 Dec 2022 | 18 Nov 2022 | 06 Dec 2022 | 22 Nov 2022 |
| BR3 | SE239041.091 | LB264261 | 09 Nov 2022 | 11 Nov 2022 | 07 Dec 2022 | 18 Nov 2022 | 07 Dec 2022 | 22 Nov 2022 |
| BR4 | SE239041.092 | LB264261 | 09 Nov 2022 | 11 Nov 2022 | 07 Dec 2022 | 18 Nov 2022 | 07 Dec 2022 | 22 Nov 2022 |
| WD1 | SE239041.093 | LB264261 | 10 Nov 2022 | 11 Nov 2022 | 08 Dec 2022 | 18 Nov 2022 | 08 Dec 2022 | 22 Nov 2022 |
| WD2 | SE239041.094 | LB264261 | 10 Nov 2022 | 11 Nov 2022 | 08 Dec 2022 | 18 Nov 2022 | 08 Dec 2022 | 22 Nov 2022 |
| TRIP BLANK | SE239041.098 | LB264261 | 10 Nov 2022 | 11 Nov 2022 | 08 Dec 2022 | 18 Nov 2022 | 08 Dec 2022 | 22 Nov 2022 |

## Moisture Content

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH11(0.2m) | SE239041.001 | LB264044 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 21 Nov 2022 |
| BH12(0.7m) | SE239041.002 | LB264044 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 21 Nov 2022 |
| BH13(0.2m) | SE239041.003 | LB264044 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 21 Nov 2022 |
| BH14(0.2m) | SE239041.004 | LB264044 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 21 Nov 2022 |
| BH15(0.5m) | SE239041.005 | LB264044 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 21 Nov 2022 |
| BH16(0.2m) | SE239041.006 | LB264044 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 21 Nov 2022 |
| BH17(0.7m) | SE239041.007 | LB264044 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 21 Nov 2022 |
| BH18(0.2m) | SE239041.008 | LB264044 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 21 Nov 2022 |
| BH19(0.2m) | SE239041.009 | LB264044 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 21 Nov 2022 |
| BH20(0.2m) | SE239041.010 | LB264044 | 10 Nov 2022 | 11 Nov 2022 | 24 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 21 Nov 2022 |
| BH21(0.5m) | SE239041.011 | LB264044 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 21 Nov 2022 |
| BH22(0.2m) | SE239041.012 | LB264044 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 21 Nov 2022 |
| BH23(0.2m) | SE239041.013 | LB264044 | 10 Nov 2022 | 11 Nov 2022 | 24 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 21 Nov 2022 |
| BH24(0.2m) | SE239041.014 | LB264044 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 21 Nov 2022 |
| BH25(0.2m) | SE239041.015 | LB264044 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 21 Nov 2022 |
| BH26(surface sample) | SE239041.016 | LB264044 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 21 Nov 2022 |

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

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

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH27(0.2m) | SE239041.017 | LB264044 | 10 Nov 2022 | 11 Nov 2022 | 24 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 21 Nov 2022 |
| BH28(0.4m) | SE239041.018 | LB264044 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 21 Nov 2022 |
| BH29(0.5m) | SE239041.019 | LB264044 | 10 Nov 2022 | 11 Nov 2022 | 24 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 21 Nov 2022 |
| BH30(0.2m) | SE239041.020 | LB264048 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH31(0.2m) | SE239041.021 | LB264048 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH32(0.2m) | SE239041.022 | LB264048 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH33(0.2m) | SE239041.023 | LB264048 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH34(0.2m) | SE239041.024 | LB264048 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH35(0.2m) | SE239041.025 | LB264048 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH36(0.6m) | SE239041.026 | LB264048 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH37(0.6m) | SE239041.027 | LB264048 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH38(0.2m) | SE239041.028 | LB264048 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH39(0.2m) | SE239041.029 | LB264048 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH40(0.2m) | SE239041.030 | LB264048 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH41(0.5m) | SE239041.031 | LB264048 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH42(0.2m) | SE239041.032 | LB264048 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH43(0.2m) | SE239041.033 | LB264048 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH44(0.2m) | SE239041.034 | LB264048 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH45(0.2m) | SE239041.035 | LB264048 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH46(0.2m) | SE239041.036 | LB264048 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH47(0.7m) | SE239041.037 | LB264048 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH48(0.1m) | SE239041.038 | LB264048 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH49(0.5m) | SE239041.039 | LB264049 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH50(0.2m) | SE239041.040 | LB264049 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH51(0.2m) | SE239041.041 | LB264049 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH52(0.7m) | SE239041.042 | LB264049 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH53(0.2m) | SE239041.043 | LB264049 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH54(0.2m) | SE239041.044 | LB264049 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH55(0.7m) | SE239041.045 | LB264049 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH56(0.2m) | SE239041.046 | LB264049 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH57(0.2m) | SE239041.047 | LB264049 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH58(0.2m) | SE239041.048 | LB264049 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH59(0.2m) | SE239041.049 | LB264049 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH60(0.2m) | SE239041.050 | LB264049 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH61(0.5m) | SE239041.051 | LB264049 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH62(0.2m) | SE239041.052 | LB264049 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH63(0.2m) | SE239041.053 | LB264049 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH64(0.2m) | SE239041.054 | LB264049 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH65(0.9m) | SE239041.055 | LB264049 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH66(0.2m) | SE239041.056 | LB264049 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH67(0.2m) | SE239041.057 | LB264049 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH68(0.6m) | SE239041.058 | LB264050 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH69(0.2m) | SE239041.059 | LB264050 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH70(0.2m) | SE239041.060 | LB264050 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH71(0.2m) | SE239041.061 | LB264050 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH72(0.8m) | SE239041.062 | LB264050 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH73(0.2m) | SE239041.063 | LB264050 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH74(0.2m) | SE239041.064 | LB264050 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH75(1.0m) | SE239041.065 | LB264050 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH76(0.2m) | SE239041.066 | LB264050 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH77(0.2m) | SE239041.067 | LB264050 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH78(0.2m) | SE239041.068 | LB264050 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH79(0.2m) | SE239041.069 | LB264050 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH80(0.6m) | SE239041.070 | LB264050 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH81(0.8m) | SE239041.071 | LB264050 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH82(0.2m) | SE239041.072 | LB264050 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH83(0.2m) | SE239041.073 | LB264050 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH84(0.1m) | SE239041.074 | LB264050 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH85(0.2m) | SE239041.075 | LB264050 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH86(0.7m) | SE239041.076 | LB264050 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |

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

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

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

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH87(0.8m) | SE239041.077 | LB264052 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH88(0.2m) | SE239041.078 | LB264052 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH89(0.2m) | SE239041.079 | LB264052 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH90(0.2m) | SE239041.080 | LB264052 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH91(1.0m) | SE239041.081 | LB264052 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH92(0.2m) | SE239041.082 | LB264052 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH93(0.2m) | SE239041.083 | LB264052 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH94(0.2m) | SE239041.084 | LB264052 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH95(0.2m) | SE239041.085 | LB264052 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH96(0.7m) | SE239041.086 | LB264052 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH97(0.2m) | SE239041.087 | LB264052 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH98(0.2m) | SE239041.088 | LB264052 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BR1 | SE239041.089 | LB264052 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BR2 | SE239041.090 | LB264052 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BR3 | SE239041.091 | LB264052 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BR4 | SE239041.092 | LB264052 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| WD1 | SE239041.093 | LB264052 | 10 Nov 2022 | 11 Nov 2022 | 24 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| WD2 | SE239041.094 | LB264052 | 10 Nov 2022 | 11 Nov 2022 | 24 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| TRIP BLANK | SE239041.098 | LB264052 | 10 Nov 2022 | 11 Nov 2022 | 24 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH11(0.2m) | SE239041.001 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH12(0.7m) | SE239041.002 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH13(0.2m) | SE239041.003 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH14(0.2m) | SE239041.004 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH15(0.5m) | SE239041.005 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH16(0.2m) | SE239041.006 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH17(0.7m) | SE239041.007 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH18(0.2m) | SE239041.008 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH19(0.2m) | SE239041.009 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH20(0.2m) | SE239041.010 | LB263988 | 10 Nov 2022 | 11 Nov 2022 | 24 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH21(0.5m) | SE239041.011 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH22(0.2m) | SE239041.012 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH23(0.2m) | SE239041.013 | LB263988 | 10 Nov 2022 | 11 Nov 2022 | 24 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH24(0.2m) | SE239041.014 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH25(0.2m) | SE239041.015 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH26(surface sample) | SE239041.016 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH27(0.2m) | SE239041.017 | LB263988 | 10 Nov 2022 | 11 Nov 2022 | 24 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH28(0.4m) | SE239041.018 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH29(0.5m) | SE239041.019 | LB263988 | 10 Nov 2022 | 11 Nov 2022 | 24 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH30(0.2m) | SE239041.020 | LB263989 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH31(0.2m) | SE239041.021 | LB263989 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH32(0.2m) | SE239041.022 | LB263989 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH33(0.2m) | SE239041.023 | LB263989 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH34(0.2m) | SE239041.024 | LB263989 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH35(0.2m) | SE239041.025 | LB263989 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH36(0.6m) | SE239041.026 | LB263989 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH37(0.6m) | SE239041.027 | LB263989 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH38(0.2m) | SE239041.028 | LB263989 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH39(0.2m) | SE239041.029 | LB263989 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH40(0.2m) | SE239041.030 | LB263989 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH41(0.5m) | SE239041.031 | LB263989 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH42(0.2m) | SE239041.032 | LB263989 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH43(0.2m) | SE239041.033 | LB263989 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH44(0.2m) | SE239041.034 | LB263989 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH45(0.2m) | SE239041.035 | LB263989 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH46(0.2m) | SE239041.036 | LB263989 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH47(0.7m) | SE239041.037 | LB263989 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH48(0.1m) | SE239041.038 | LB263989 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |

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

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

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH49(0.5m) | SE239041.039 | LB263997 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH50(0.2m) | SE239041.040 | LB263997 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH51(0.2m) | SE239041.041 | LB263997 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH52(0.7m) | SE239041.042 | LB263997 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH53(0.2m) | SE239041.043 | LB263997 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH54(0.2m) | SE239041.044 | LB263997 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH55(0.7m) | SE239041.045 | LB263997 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH56(0.2m) | SE239041.046 | LB263997 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH57(0.2m) | SE239041.047 | LB263997 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH58(0.2m) | SE239041.048 | LB263997 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH59(0.2m) | SE239041.049 | LB263997 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH60(0.2m) | SE239041.050 | LB263997 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH61(0.5m) | SE239041.051 | LB263997 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH62(0.2m) | SE239041.052 | LB263997 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH63(0.2m) | SE239041.053 | LB263997 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH64(0.2m) | SE239041.054 | LB263997 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH65(0.9m) | SE239041.055 | LB263997 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH66(0.2m) | SE239041.056 | LB263997 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH67(0.2m) | SE239041.057 | LB263997 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH68(0.6m) | SE239041.058 | LB263998 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH69(0.2m) | SE239041.059 | LB263998 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH70(0.2m) | SE239041.060 | LB263998 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH71(0.2m) | SE239041.061 | LB263998 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH72(0.8m) | SE239041.062 | LB263998 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH73(0.2m) | SE239041.063 | LB263998 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH74(0.2m) | SE239041.064 | LB263998 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH75(1.0m) | SE239041.065 | LB263998 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH76(0.2m) | SE239041.066 | LB263998 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH77(0.2m) | SE239041.067 | LB263998 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH78(0.2m) | SE239041.068 | LB263998 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH79(0.2m) | SE239041.069 | LB263998 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH80(0.6m) | SE239041.070 | LB263998 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH81(0.8m) | SE239041.071 | LB263998 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH82(0.2m) | SE239041.072 | LB263998 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH83(0.2m) | SE239041.073 | LB263998 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH84(0.1m) | SE239041.074 | LB263998 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH85(0.2m) | SE239041.075 | LB263998 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH86(0.7m) | SE239041.076 | LB263998 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH87(0.8m) | SE239041.077 | LB263999 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH88(0.2m) | SE239041.078 | LB263999 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH89(0.2m) | SE239041.079 | LB263999 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH90(0.2m) | SE239041.080 | LB263999 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH91(1.0m) | SE239041.081 | LB263999 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH92(0.2m) | SE239041.082 | LB263999 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH93(0.2m) | SE239041.083 | LB263999 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH94(0.2m) | SE239041.084 | LB263999 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH95(0.2m) | SE239041.085 | LB263999 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH96(0.7m) | SE239041.086 | LB263999 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH97(0.2m) | SE239041.087 | LB263999 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH98(0.2m) | SE239041.088 | LB263999 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BR1 | SE239041.089 | LB263999 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BR2 | SE239041.090 | LB263999 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BR3 | SE239041.091 | LB263999 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BR4 | SE239041.092 | LB263999 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| WD1 | SE239041.093 | LB263999 | 10 Nov 2022 | 11 Nov 2022 | 24 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| WD2 | SE239041.094 | LB263999 | 10 Nov 2022 | 11 Nov 2022 | 24 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| TRIP BLANK | SE239041.098 | LB263999 | 10 Nov 2022 | 11 Nov 2022 | 24 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |

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

| Sample Name | Sample No. | QC Ref |
|---|---|---|

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

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

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| WD1 | SE239041.095 | LB263924 | 10 Nov 2022 | 11 Nov 2022 | 17 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| WD2 | SE239041.096 | LB263924 | 10 Nov 2022 | 11 Nov 2022 | 17 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| RIN | SE239041.097 | LB263924 | 10 Nov 2022 | 11 Nov 2022 | 17 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH11(0.2m) | SE239041.001 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH12(0.7m) | SE239041.002 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH13(0.2m) | SE239041.003 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH14(0.2m) | SE239041.004 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH15(0.5m) | SE239041.005 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH16(0.2m) | SE239041.006 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH17(0.7m) | SE239041.007 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH18(0.2m) | SE239041.008 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH19(0.2m) | SE239041.009 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH20(0.2m) | SE239041.010 | LB263988 | 10 Nov 2022 | 11 Nov 2022 | 24 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH21(0.5m) | SE239041.011 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH22(0.2m) | SE239041.012 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH23(0.2m) | SE239041.013 | LB263988 | 10 Nov 2022 | 11 Nov 2022 | 24 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH24(0.2m) | SE239041.014 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH25(0.2m) | SE239041.015 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH26(surface sample) | SE239041.016 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH27(0.2m) | SE239041.017 | LB263988 | 10 Nov 2022 | 11 Nov 2022 | 24 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH28(0.4m) | SE239041.018 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH29(0.5m) | SE239041.019 | LB263988 | 10 Nov 2022 | 11 Nov 2022 | 24 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH30(0.2m) | SE239041.020 | LB263989 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH31(0.2m) | SE239041.021 | LB263989 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH32(0.2m) | SE239041.022 | LB263989 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH33(0.2m) | SE239041.023 | LB263989 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH34(0.2m) | SE239041.024 | LB263989 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH35(0.2m) | SE239041.025 | LB263989 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH36(0.6m) | SE239041.026 | LB263989 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH37(0.6m) | SE239041.027 | LB263989 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH38(0.2m) | SE239041.028 | LB263989 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH39(0.2m) | SE239041.029 | LB263989 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH40(0.2m) | SE239041.030 | LB263989 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH41(0.5m) | SE239041.031 | LB263989 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH42(0.2m) | SE239041.032 | LB263989 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH43(0.2m) | SE239041.033 | LB263989 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH44(0.2m) | SE239041.034 | LB263989 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH45(0.2m) | SE239041.035 | LB263989 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH46(0.2m) | SE239041.036 | LB263989 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH47(0.7m) | SE239041.037 | LB263989 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH48(0.1m) | SE239041.038 | LB263989 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH49(0.5m) | SE239041.039 | LB263997 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH50(0.2m) | SE239041.040 | LB263997 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH51(0.2m) | SE239041.041 | LB263997 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH52(0.7m) | SE239041.042 | LB263997 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH53(0.2m) | SE239041.043 | LB263997 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH54(0.2m) | SE239041.044 | LB263997 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH55(0.7m) | SE239041.045 | LB263997 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH56(0.2m) | SE239041.046 | LB263997 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH57(0.2m) | SE239041.047 | LB263997 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH58(0.2m) | SE239041.048 | LB263997 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH59(0.2m) | SE239041.049 | LB263997 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH60(0.2m) | SE239041.050 | LB263997 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH61(0.5m) | SE239041.051 | LB263997 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH62(0.2m) | SE239041.052 | LB263997 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH63(0.2m) | SE239041.053 | LB263997 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH64(0.2m) | SE239041.054 | LB263997 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |

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

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

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

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH65(0.9m) | SE239041.055 | LB263997 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH66(0.2m) | SE239041.056 | LB263997 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH67(0.2m) | SE239041.057 | LB263997 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH68(0.6m) | SE239041.058 | LB263998 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH69(0.2m) | SE239041.059 | LB263998 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH70(0.2m) | SE239041.060 | LB263998 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH71(0.2m) | SE239041.061 | LB263998 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH72(0.8m) | SE239041.062 | LB263998 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH73(0.2m) | SE239041.063 | LB263998 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH74(0.2m) | SE239041.064 | LB263998 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH75(1.0m) | SE239041.065 | LB263998 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH76(0.2m) | SE239041.066 | LB263998 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH77(0.2m) | SE239041.067 | LB263998 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH78(0.2m) | SE239041.068 | LB263998 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH79(0.2m) | SE239041.069 | LB263998 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH80(0.6m) | SE239041.070 | LB263998 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH81(0.8m) | SE239041.071 | LB263998 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH82(0.2m) | SE239041.072 | LB263998 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH83(0.2m) | SE239041.073 | LB263998 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH84(0.1m) | SE239041.074 | LB263998 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH85(0.2m) | SE239041.075 | LB263998 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH86(0.7m) | SE239041.076 | LB263998 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH87(0.8m) | SE239041.077 | LB263999 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH88(0.2m) | SE239041.078 | LB263999 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH89(0.2m) | SE239041.079 | LB263999 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH90(0.2m) | SE239041.080 | LB263999 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH91(1.0m) | SE239041.081 | LB263999 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH92(0.2m) | SE239041.082 | LB263999 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH93(0.2m) | SE239041.083 | LB263999 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH94(0.2m) | SE239041.084 | LB263999 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH95(0.2m) | SE239041.085 | LB263999 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH96(0.7m) | SE239041.086 | LB263999 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH97(0.2m) | SE239041.087 | LB263999 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH98(0.2m) | SE239041.088 | LB263999 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BR1 | SE239041.089 | LB263999 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BR2 | SE239041.090 | LB263999 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BR3 | SE239041.091 | LB263999 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BR4 | SE239041.092 | LB263999 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| WD1 | SE239041.093 | LB263999 | 10 Nov 2022 | 11 Nov 2022 | 24 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| WD2 | SE239041.094 | LB263999 | 10 Nov 2022 | 11 Nov 2022 | 24 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| TRIP BLANK | SE239041.098 | LB263999 | 10 Nov 2022 | 11 Nov 2022 | 24 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| WD1 | SE239041.095 | LB263924 | 10 Nov 2022 | 11 Nov 2022 | 17 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| WD2 | SE239041.096 | LB263924 | 10 Nov 2022 | 11 Nov 2022 | 17 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| RIN | SE239041.097 | LB263924 | 10 Nov 2022 | 11 Nov 2022 | 17 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH11(0.2m) | SE239041.001 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH12(0.7m) | SE239041.002 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH13(0.2m) | SE239041.003 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH14(0.2m) | SE239041.004 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH15(0.5m) | SE239041.005 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH16(0.2m) | SE239041.006 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH17(0.7m) | SE239041.007 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH18(0.2m) | SE239041.008 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH19(0.2m) | SE239041.009 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH20(0.2m) | SE239041.010 | LB263988 | 10 Nov 2022 | 11 Nov 2022 | 24 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH21(0.5m) | SE239041.011 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |

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

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

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

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH22(0.2m) | SE239041.012 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH23(0.2m) | SE239041.013 | LB263988 | 10 Nov 2022 | 11 Nov 2022 | 24 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH24(0.2m) | SE239041.014 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH25(0.2m) | SE239041.015 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH26(surface sample) | SE239041.016 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH27(0.2m) | SE239041.017 | LB263988 | 10 Nov 2022 | 11 Nov 2022 | 24 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH28(0.4m) | SE239041.018 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH29(0.5m) | SE239041.019 | LB263988 | 10 Nov 2022 | 11 Nov 2022 | 24 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH30(0.2m) | SE239041.020 | LB263989 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH31(0.2m) | SE239041.021 | LB263989 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH32(0.2m) | SE239041.022 | LB263989 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH33(0.2m) | SE239041.023 | LB263989 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH34(0.2m) | SE239041.024 | LB263989 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH35(0.2m) | SE239041.025 | LB263989 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH36(0.6m) | SE239041.026 | LB263989 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH37(0.6m) | SE239041.027 | LB263989 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH38(0.2m) | SE239041.028 | LB263989 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH39(0.2m) | SE239041.029 | LB263989 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH40(0.2m) | SE239041.030 | LB263989 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH41(0.5m) | SE239041.031 | LB263989 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH42(0.2m) | SE239041.032 | LB263989 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH43(0.2m) | SE239041.033 | LB263989 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH44(0.2m) | SE239041.034 | LB263989 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH45(0.2m) | SE239041.035 | LB263989 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH46(0.2m) | SE239041.036 | LB263989 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH47(0.7m) | SE239041.037 | LB263989 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH48(0.1m) | SE239041.038 | LB263989 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH49(0.5m) | SE239041.039 | LB263997 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH50(0.2m) | SE239041.040 | LB263997 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH51(0.2m) | SE239041.041 | LB263997 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH52(0.7m) | SE239041.042 | LB263997 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH53(0.2m) | SE239041.043 | LB263997 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH54(0.2m) | SE239041.044 | LB263997 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH55(0.7m) | SE239041.045 | LB263997 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH56(0.2m) | SE239041.046 | LB263997 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH57(0.2m) | SE239041.047 | LB263997 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH58(0.2m) | SE239041.048 | LB263997 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH59(0.2m) | SE239041.049 | LB263997 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH60(0.2m) | SE239041.050 | LB263997 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH61(0.5m) | SE239041.051 | LB263997 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH62(0.2m) | SE239041.052 | LB263997 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH63(0.2m) | SE239041.053 | LB263997 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH64(0.2m) | SE239041.054 | LB263997 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH65(0.9m) | SE239041.055 | LB263997 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH66(0.2m) | SE239041.056 | LB263997 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH67(0.2m) | SE239041.057 | LB263997 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH68(0.6m) | SE239041.058 | LB263998 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH69(0.2m) | SE239041.059 | LB263998 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH70(0.2m) | SE239041.060 | LB263998 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH71(0.2m) | SE239041.061 | LB263998 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH72(0.8m) | SE239041.062 | LB263998 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH73(0.2m) | SE239041.063 | LB263998 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH74(0.2m) | SE239041.064 | LB263998 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH75(1.0m) | SE239041.065 | LB263998 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH76(0.2m) | SE239041.066 | LB263998 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH77(0.2m) | SE239041.067 | LB263998 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH78(0.2m) | SE239041.068 | LB263998 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH79(0.2m) | SE239041.069 | LB263998 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH80(0.6m) | SE239041.070 | LB263998 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH81(0.8m) | SE239041.071 | LB263998 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |

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

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

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

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH82(0.2m) | SE239041.072 | LB263998 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH83(0.2m) | SE239041.073 | LB263998 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH84(0.1m) | SE239041.074 | LB263998 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH85(0.2m) | SE239041.075 | LB263998 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH86(0.7m) | SE239041.076 | LB263998 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH87(0.8m) | SE239041.077 | LB263999 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH88(0.2m) | SE239041.078 | LB263999 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH89(0.2m) | SE239041.079 | LB263999 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH90(0.2m) | SE239041.080 | LB263999 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH91(1.0m) | SE239041.081 | LB263999 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH92(0.2m) | SE239041.082 | LB263999 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH93(0.2m) | SE239041.083 | LB263999 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH94(0.2m) | SE239041.084 | LB263999 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH95(0.2m) | SE239041.085 | LB263999 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH96(0.7m) | SE239041.086 | LB263999 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH97(0.2m) | SE239041.087 | LB263999 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH98(0.2m) | SE239041.088 | LB263999 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BR1 | SE239041.089 | LB263999 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BR2 | SE239041.090 | LB263999 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BR3 | SE239041.091 | LB263999 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BR4 | SE239041.092 | LB263999 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| WD1 | SE239041.093 | LB263999 | 10 Nov 2022 | 11 Nov 2022 | 24 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| WD2 | SE239041.094 | LB263999 | 10 Nov 2022 | 11 Nov 2022 | 24 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| TRIP BLANK | SE239041.098 | LB263999 | 10 Nov 2022 | 11 Nov 2022 | 24 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| WD1 | SE239041.095 | LB263924 | 10 Nov 2022 | 11 Nov 2022 | 17 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| WD2 | SE239041.096 | LB263924 | 10 Nov 2022 | 11 Nov 2022 | 17 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| RIN | SE239041.097 | LB263924 | 10 Nov 2022 | 11 Nov 2022 | 17 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH11(0.2m) | SE239041.001 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH12(0.7m) | SE239041.002 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH13(0.2m) | SE239041.003 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH14(0.2m) | SE239041.004 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH15(0.5m) | SE239041.005 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH16(0.2m) | SE239041.006 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH17(0.7m) | SE239041.007 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH18(0.2m) | SE239041.008 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH19(0.2m) | SE239041.009 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH20(0.2m) | SE239041.010 | LB263988 | 10 Nov 2022 | 11 Nov 2022 | 24 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH21(0.5m) | SE239041.011 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH22(0.2m) | SE239041.012 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH23(0.2m) | SE239041.013 | LB263988 | 10 Nov 2022 | 11 Nov 2022 | 24 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH24(0.2m) | SE239041.014 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH25(0.2m) | SE239041.015 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH26(surface sample) | SE239041.016 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH27(0.2m) | SE239041.017 | LB263988 | 10 Nov 2022 | 11 Nov 2022 | 24 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH28(0.4m) | SE239041.018 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH29(0.5m) | SE239041.019 | LB263988 | 10 Nov 2022 | 11 Nov 2022 | 24 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH30(0.2m) | SE239041.020 | LB263989 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH31(0.2m) | SE239041.021 | LB263989 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH32(0.2m) | SE239041.022 | LB263989 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH33(0.2m) | SE239041.023 | LB263989 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH34(0.2m) | SE239041.024 | LB263989 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH35(0.2m) | SE239041.025 | LB263989 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH36(0.6m) | SE239041.026 | LB263989 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH37(0.6m) | SE239041.027 | LB263989 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH38(0.2m) | SE239041.028 | LB263989 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |

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

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

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH39(0.2m) | SE239041.029 | LB263989 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH40(0.2m) | SE239041.030 | LB263989 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH41(0.5m) | SE239041.031 | LB263989 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH42(0.2m) | SE239041.032 | LB263989 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH43(0.2m) | SE239041.033 | LB263989 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH44(0.2m) | SE239041.034 | LB263989 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH45(0.2m) | SE239041.035 | LB263989 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH46(0.2m) | SE239041.036 | LB263989 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH47(0.7m) | SE239041.037 | LB263989 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH48(0.1m) | SE239041.038 | LB263989 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH49(0.5m) | SE239041.039 | LB263997 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH50(0.2m) | SE239041.040 | LB263997 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH51(0.2m) | SE239041.041 | LB263997 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH52(0.7m) | SE239041.042 | LB263997 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH53(0.2m) | SE239041.043 | LB263997 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH54(0.2m) | SE239041.044 | LB263997 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH55(0.7m) | SE239041.045 | LB263997 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH56(0.2m) | SE239041.046 | LB263997 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH57(0.2m) | SE239041.047 | LB263997 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH58(0.2m) | SE239041.048 | LB263997 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH59(0.2m) | SE239041.049 | LB263997 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH60(0.2m) | SE239041.050 | LB263997 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH61(0.5m) | SE239041.051 | LB263997 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH62(0.2m) | SE239041.052 | LB263997 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH63(0.2m) | SE239041.053 | LB263997 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH64(0.2m) | SE239041.054 | LB263997 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH65(0.9m) | SE239041.055 | LB263997 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH66(0.2m) | SE239041.056 | LB263997 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH67(0.2m) | SE239041.057 | LB263997 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |
| BH68(0.6m) | SE239041.058 | LB263998 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH69(0.2m) | SE239041.059 | LB263998 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH70(0.2m) | SE239041.060 | LB263998 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH71(0.2m) | SE239041.061 | LB263998 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH72(0.8m) | SE239041.062 | LB263998 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH73(0.2m) | SE239041.063 | LB263998 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH74(0.2m) | SE239041.064 | LB263998 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH75(1.0m) | SE239041.065 | LB263998 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH76(0.2m) | SE239041.066 | LB263998 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH77(0.2m) | SE239041.067 | LB263998 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH78(0.2m) | SE239041.068 | LB263998 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH79(0.2m) | SE239041.069 | LB263998 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH80(0.6m) | SE239041.070 | LB263998 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH81(0.8m) | SE239041.071 | LB263998 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH82(0.2m) | SE239041.072 | LB263998 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH83(0.2m) | SE239041.073 | LB263998 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH84(0.1m) | SE239041.074 | LB263998 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH85(0.2m) | SE239041.075 | LB263998 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH86(0.7m) | SE239041.076 | LB263998 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH87(0.8m) | SE239041.077 | LB263999 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH88(0.2m) | SE239041.078 | LB263999 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH89(0.2m) | SE239041.079 | LB263999 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH90(0.2m) | SE239041.080 | LB263999 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH91(1.0m) | SE239041.081 | LB263999 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH92(0.2m) | SE239041.082 | LB263999 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH93(0.2m) | SE239041.083 | LB263999 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH94(0.2m) | SE239041.084 | LB263999 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH95(0.2m) | SE239041.085 | LB263999 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH96(0.7m) | SE239041.086 | LB263999 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH97(0.2m) | SE239041.087 | LB263999 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH98(0.2m) | SE239041.088 | LB263999 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |

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

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

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

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BR1 | SE239041.089 | LB263999 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BR2 | SE239041.090 | LB263999 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BR3 | SE239041.091 | LB263999 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BR4 | SE239041.092 | LB263999 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| WD1 | SE239041.093 | LB263999 | 10 Nov 2022 | 11 Nov 2022 | 24 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| WD2 | SE239041.094 | LB263999 | 10 Nov 2022 | 11 Nov 2022 | 24 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| TRIP BLANK | SE239041.098 | LB263999 | 10 Nov 2022 | 11 Nov 2022 | 24 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 23 Nov 2022 |

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| WD1 | SE239041.095 | LB263924 | 10 Nov 2022 | 11 Nov 2022 | 17 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| WD2 | SE239041.096 | LB263924 | 10 Nov 2022 | 11 Nov 2022 | 17 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| RIN | SE239041.097 | LB263924 | 10 Nov 2022 | 11 Nov 2022 | 17 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |

**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 |
|---|---|---|---|---|---|---|---|---|
| BH11(0.2m) | SE239041.001 | LB264249 | 07 Nov 2022 | 11 Nov 2022 | 06 May 2023 | 18 Nov 2022 | 06 May 2023 | 22 Nov 2022 |
| BH12(0.7m) | SE239041.002 | LB264249 | 07 Nov 2022 | 11 Nov 2022 | 06 May 2023 | 18 Nov 2022 | 06 May 2023 | 22 Nov 2022 |
| BH13(0.2m) | SE239041.003 | LB264249 | 07 Nov 2022 | 11 Nov 2022 | 06 May 2023 | 18 Nov 2022 | 06 May 2023 | 22 Nov 2022 |
| BH14(0.2m) | SE239041.004 | LB264249 | 07 Nov 2022 | 11 Nov 2022 | 06 May 2023 | 18 Nov 2022 | 06 May 2023 | 22 Nov 2022 |
| BH15(0.5m) | SE239041.005 | LB264249 | 07 Nov 2022 | 11 Nov 2022 | 06 May 2023 | 18 Nov 2022 | 06 May 2023 | 22 Nov 2022 |
| BH16(0.2m) | SE239041.006 | LB264249 | 07 Nov 2022 | 11 Nov 2022 | 06 May 2023 | 18 Nov 2022 | 06 May 2023 | 22 Nov 2022 |
| BH17(0.7m) | SE239041.007 | LB264249 | 07 Nov 2022 | 11 Nov 2022 | 06 May 2023 | 18 Nov 2022 | 06 May 2023 | 22 Nov 2022 |
| BH18(0.2m) | SE239041.008 | LB264249 | 07 Nov 2022 | 11 Nov 2022 | 06 May 2023 | 18 Nov 2022 | 06 May 2023 | 22 Nov 2022 |
| BH19(0.2m) | SE239041.009 | LB264249 | 07 Nov 2022 | 11 Nov 2022 | 06 May 2023 | 18 Nov 2022 | 06 May 2023 | 22 Nov 2022 |
| BH20(0.2m) | SE239041.010 | LB264249 | 10 Nov 2022 | 11 Nov 2022 | 09 May 2023 | 18 Nov 2022 | 09 May 2023 | 22 Nov 2022 |
| BH21(0.5m) | SE239041.011 | LB264249 | 07 Nov 2022 | 11 Nov 2022 | 06 May 2023 | 18 Nov 2022 | 06 May 2023 | 22 Nov 2022 |
| BH22(0.2m) | SE239041.012 | LB264249 | 07 Nov 2022 | 11 Nov 2022 | 06 May 2023 | 18 Nov 2022 | 06 May 2023 | 22 Nov 2022 |
| BH23(0.2m) | SE239041.013 | LB264249 | 10 Nov 2022 | 11 Nov 2022 | 09 May 2023 | 18 Nov 2022 | 09 May 2023 | 22 Nov 2022 |
| BH24(0.2m) | SE239041.014 | LB264249 | 07 Nov 2022 | 11 Nov 2022 | 06 May 2023 | 18 Nov 2022 | 06 May 2023 | 22 Nov 2022 |
| BH25(0.2m) | SE239041.015 | LB264249 | 07 Nov 2022 | 11 Nov 2022 | 06 May 2023 | 18 Nov 2022 | 06 May 2023 | 22 Nov 2022 |
| BH26(surface sample) | SE239041.016 | LB264249 | 07 Nov 2022 | 11 Nov 2022 | 06 May 2023 | 18 Nov 2022 | 06 May 2023 | 22 Nov 2022 |
| BH27(0.2m) | SE239041.017 | LB264249 | 10 Nov 2022 | 11 Nov 2022 | 09 May 2023 | 18 Nov 2022 | 09 May 2023 | 22 Nov 2022 |
| BH28(0.4m) | SE239041.018 | LB264249 | 07 Nov 2022 | 11 Nov 2022 | 06 May 2023 | 18 Nov 2022 | 06 May 2023 | 22 Nov 2022 |
| BH29(0.5m) | SE239041.019 | LB264249 | 10 Nov 2022 | 11 Nov 2022 | 09 May 2023 | 18 Nov 2022 | 09 May 2023 | 22 Nov 2022 |
| BH30(0.2m) | SE239041.020 | LB264250 | 09 Nov 2022 | 11 Nov 2022 | 08 May 2023 | 18 Nov 2022 | 08 May 2023 | 22 Nov 2022 |
| BH31(0.2m) | SE239041.021 | LB264250 | 09 Nov 2022 | 11 Nov 2022 | 08 May 2023 | 18 Nov 2022 | 08 May 2023 | 22 Nov 2022 |
| BH32(0.2m) | SE239041.022 | LB264250 | 08 Nov 2022 | 11 Nov 2022 | 07 May 2023 | 18 Nov 2022 | 07 May 2023 | 22 Nov 2022 |
| BH33(0.2m) | SE239041.023 | LB264250 | 08 Nov 2022 | 11 Nov 2022 | 07 May 2023 | 18 Nov 2022 | 07 May 2023 | 22 Nov 2022 |
| BH34(0.2m) | SE239041.024 | LB264250 | 08 Nov 2022 | 11 Nov 2022 | 07 May 2023 | 18 Nov 2022 | 07 May 2023 | 22 Nov 2022 |
| BH35(0.2m) | SE239041.025 | LB264250 | 07 Nov 2022 | 11 Nov 2022 | 06 May 2023 | 18 Nov 2022 | 06 May 2023 | 22 Nov 2022 |
| BH36(0.6m) | SE239041.026 | LB264250 | 07 Nov 2022 | 11 Nov 2022 | 06 May 2023 | 18 Nov 2022 | 06 May 2023 | 22 Nov 2022 |
| BH37(0.6m) | SE239041.027 | LB264250 | 09 Nov 2022 | 11 Nov 2022 | 08 May 2023 | 18 Nov 2022 | 08 May 2023 | 22 Nov 2022 |
| BH38(0.2m) | SE239041.028 | LB264250 | 09 Nov 2022 | 11 Nov 2022 | 08 May 2023 | 18 Nov 2022 | 08 May 2023 | 22 Nov 2022 |
| BH39(0.2m) | SE239041.029 | LB264250 | 09 Nov 2022 | 11 Nov 2022 | 08 May 2023 | 18 Nov 2022 | 08 May 2023 | 22 Nov 2022 |
| BH40(0.2m) | SE239041.030 | LB264250 | 07 Nov 2022 | 11 Nov 2022 | 06 May 2023 | 18 Nov 2022 | 06 May 2023 | 22 Nov 2022 |
| BH41(0.5m) | SE239041.031 | LB264250 | 07 Nov 2022 | 11 Nov 2022 | 06 May 2023 | 18 Nov 2022 | 06 May 2023 | 22 Nov 2022 |
| BH42(0.2m) | SE239041.032 | LB264250 | 07 Nov 2022 | 11 Nov 2022 | 06 May 2023 | 18 Nov 2022 | 06 May 2023 | 22 Nov 2022 |
| BH43(0.2m) | SE239041.033 | LB264250 | 09 Nov 2022 | 11 Nov 2022 | 08 May 2023 | 18 Nov 2022 | 08 May 2023 | 22 Nov 2022 |
| BH44(0.2m) | SE239041.034 | LB264250 | 09 Nov 2022 | 11 Nov 2022 | 08 May 2023 | 18 Nov 2022 | 08 May 2023 | 22 Nov 2022 |
| BH45(0.2m) | SE239041.035 | LB264250 | 09 Nov 2022 | 11 Nov 2022 | 08 May 2023 | 18 Nov 2022 | 08 May 2023 | 22 Nov 2022 |
| BH46(0.2m) | SE239041.036 | LB264250 | 09 Nov 2022 | 11 Nov 2022 | 08 May 2023 | 18 Nov 2022 | 08 May 2023 | 22 Nov 2022 |
| BH47(0.7m) | SE239041.037 | LB264250 | 08 Nov 2022 | 11 Nov 2022 | 07 May 2023 | 18 Nov 2022 | 07 May 2023 | 22 Nov 2022 |
| BH48(0.1m) | SE239041.038 | LB264250 | 08 Nov 2022 | 11 Nov 2022 | 07 May 2023 | 18 Nov 2022 | 07 May 2023 | 22 Nov 2022 |
| BH49(0.5m) | SE239041.039 | LB264247 | 08 Nov 2022 | 11 Nov 2022 | 07 May 2023 | 18 Nov 2022 | 07 May 2023 | 22 Nov 2022 |
| BH50(0.2m) | SE239041.040 | LB264247 | 08 Nov 2022 | 11 Nov 2022 | 07 May 2023 | 18 Nov 2022 | 07 May 2023 | 22 Nov 2022 |
| BH51(0.2m) | SE239041.041 | LB264247 | 08 Nov 2022 | 11 Nov 2022 | 07 May 2023 | 18 Nov 2022 | 07 May 2023 | 22 Nov 2022 |
| BH52(0.7m) | SE239041.042 | LB264247 | 08 Nov 2022 | 11 Nov 2022 | 07 May 2023 | 18 Nov 2022 | 07 May 2023 | 22 Nov 2022 |
| BH53(0.2m) | SE239041.043 | LB264247 | 08 Nov 2022 | 11 Nov 2022 | 07 May 2023 | 18 Nov 2022 | 07 May 2023 | 22 Nov 2022 |
| BH54(0.2m) | SE239041.044 | LB264247 | 09 Nov 2022 | 11 Nov 2022 | 08 May 2023 | 18 Nov 2022 | 08 May 2023 | 22 Nov 2022 |
| BH55(0.7m) | SE239041.045 | LB264247 | 09 Nov 2022 | 11 Nov 2022 | 08 May 2023 | 18 Nov 2022 | 08 May 2023 | 22 Nov 2022 |

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

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

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

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH56(0.2m) | SE239041.046 | LB264247 | 09 Nov 2022 | 11 Nov 2022 | 08 May 2023 | 18 Nov 2022 | 08 May 2023 | 22 Nov 2022 |
| BH57(0.2m) | SE239041.047 | LB264247 | 09 Nov 2022 | 11 Nov 2022 | 08 May 2023 | 18 Nov 2022 | 08 May 2023 | 22 Nov 2022 |
| BH58(0.2m) | SE239041.048 | LB264247 | 09 Nov 2022 | 11 Nov 2022 | 08 May 2023 | 18 Nov 2022 | 08 May 2023 | 22 Nov 2022 |
| BH59(0.2m) | SE239041.049 | LB264247 | 09 Nov 2022 | 11 Nov 2022 | 08 May 2023 | 18 Nov 2022 | 08 May 2023 | 22 Nov 2022 |
| BH60(0.2m) | SE239041.050 | LB264247 | 09 Nov 2022 | 11 Nov 2022 | 08 May 2023 | 18 Nov 2022 | 08 May 2023 | 22 Nov 2022 |
| BH61(0.5m) | SE239041.051 | LB264247 | 09 Nov 2022 | 11 Nov 2022 | 08 May 2023 | 18 Nov 2022 | 08 May 2023 | 22 Nov 2022 |
| BH62(0.2m) | SE239041.052 | LB264247 | 09 Nov 2022 | 11 Nov 2022 | 08 May 2023 | 18 Nov 2022 | 08 May 2023 | 22 Nov 2022 |
| BH63(0.2m) | SE239041.053 | LB264247 | 07 Nov 2022 | 11 Nov 2022 | 06 May 2023 | 18 Nov 2022 | 06 May 2023 | 22 Nov 2022 |
| BH64(0.2m) | SE239041.054 | LB264247 | 08 Nov 2022 | 11 Nov 2022 | 07 May 2023 | 18 Nov 2022 | 07 May 2023 | 22 Nov 2022 |
| BH65(0.9m) | SE239041.055 | LB264247 | 08 Nov 2022 | 11 Nov 2022 | 07 May 2023 | 18 Nov 2022 | 07 May 2023 | 22 Nov 2022 |
| BH66(0.2m) | SE239041.056 | LB264247 | 08 Nov 2022 | 11 Nov 2022 | 07 May 2023 | 18 Nov 2022 | 07 May 2023 | 22 Nov 2022 |
| BH67(0.2m) | SE239041.057 | LB264247 | 08 Nov 2022 | 11 Nov 2022 | 07 May 2023 | 18 Nov 2022 | 07 May 2023 | 22 Nov 2022 |
| BH68(0.6m) | SE239041.058 | LB264253 | 08 Nov 2022 | 11 Nov 2022 | 07 May 2023 | 18 Nov 2022 | 07 May 2023 | 22 Nov 2022 |
| BH69(0.2m) | SE239041.059 | LB264253 | 08 Nov 2022 | 11 Nov 2022 | 07 May 2023 | 18 Nov 2022 | 07 May 2023 | 22 Nov 2022 |
| BH70(0.2m) | SE239041.060 | LB264253 | 08 Nov 2022 | 11 Nov 2022 | 07 May 2023 | 18 Nov 2022 | 07 May 2023 | 22 Nov 2022 |
| BH71(0.2m) | SE239041.061 | LB264253 | 08 Nov 2022 | 11 Nov 2022 | 07 May 2023 | 18 Nov 2022 | 07 May 2023 | 22 Nov 2022 |
| BH72(0.8m) | SE239041.062 | LB264253 | 08 Nov 2022 | 11 Nov 2022 | 07 May 2023 | 18 Nov 2022 | 07 May 2023 | 22 Nov 2022 |
| BH73(0.2m) | SE239041.063 | LB264253 | 08 Nov 2022 | 11 Nov 2022 | 07 May 2023 | 18 Nov 2022 | 07 May 2023 | 22 Nov 2022 |
| BH74(0.2m) | SE239041.064 | LB264253 | 08 Nov 2022 | 11 Nov 2022 | 07 May 2023 | 18 Nov 2022 | 07 May 2023 | 22 Nov 2022 |
| BH75(1.0m) | SE239041.065 | LB264253 | 08 Nov 2022 | 11 Nov 2022 | 07 May 2023 | 18 Nov 2022 | 07 May 2023 | 22 Nov 2022 |
| BH76(0.2m) | SE239041.066 | LB264253 | 08 Nov 2022 | 11 Nov 2022 | 07 May 2023 | 18 Nov 2022 | 07 May 2023 | 22 Nov 2022 |
| BH77(0.2m) | SE239041.067 | LB264253 | 08 Nov 2022 | 11 Nov 2022 | 07 May 2023 | 18 Nov 2022 | 07 May 2023 | 22 Nov 2022 |
| BH78(0.2m) | SE239041.068 | LB264253 | 09 Nov 2022 | 11 Nov 2022 | 08 May 2023 | 18 Nov 2022 | 08 May 2023 | 22 Nov 2022 |
| BH79(0.2m) | SE239041.069 | LB264253 | 09 Nov 2022 | 11 Nov 2022 | 08 May 2023 | 18 Nov 2022 | 08 May 2023 | 22 Nov 2022 |
| BH80(0.6m) | SE239041.070 | LB264253 | 09 Nov 2022 | 11 Nov 2022 | 08 May 2023 | 18 Nov 2022 | 08 May 2023 | 22 Nov 2022 |
| BH81(0.8m) | SE239041.071 | LB264253 | 09 Nov 2022 | 11 Nov 2022 | 08 May 2023 | 18 Nov 2022 | 08 May 2023 | 22 Nov 2022 |
| BH82(0.2m) | SE239041.072 | LB264253 | 09 Nov 2022 | 11 Nov 2022 | 08 May 2023 | 18 Nov 2022 | 08 May 2023 | 22 Nov 2022 |
| BH83(0.2m) | SE239041.073 | LB264253 | 09 Nov 2022 | 11 Nov 2022 | 08 May 2023 | 18 Nov 2022 | 08 May 2023 | 22 Nov 2022 |
| BH84(0.1m) | SE239041.074 | LB264253 | 09 Nov 2022 | 11 Nov 2022 | 08 May 2023 | 18 Nov 2022 | 08 May 2023 | 22 Nov 2022 |
| BH85(0.2m) | SE239041.075 | LB264253 | 09 Nov 2022 | 11 Nov 2022 | 08 May 2023 | 18 Nov 2022 | 08 May 2023 | 22 Nov 2022 |
| BH86(0.7m) | SE239041.076 | LB264253 | 09 Nov 2022 | 11 Nov 2022 | 08 May 2023 | 18 Nov 2022 | 08 May 2023 | 22 Nov 2022 |
| BH87(0.8m) | SE239041.077 | LB264254 | 09 Nov 2022 | 11 Nov 2022 | 08 May 2023 | 18 Nov 2022 | 08 May 2023 | 22 Nov 2022 |
| BH88(0.2m) | SE239041.078 | LB264254 | 09 Nov 2022 | 11 Nov 2022 | 08 May 2023 | 18 Nov 2022 | 08 May 2023 | 22 Nov 2022 |
| BH89(0.2m) | SE239041.079 | LB264254 | 09 Nov 2022 | 11 Nov 2022 | 08 May 2023 | 18 Nov 2022 | 08 May 2023 | 22 Nov 2022 |
| BH90(0.2m) | SE239041.080 | LB264254 | 09 Nov 2022 | 11 Nov 2022 | 08 May 2023 | 18 Nov 2022 | 08 May 2023 | 22 Nov 2022 |
| BH91(1.0m) | SE239041.081 | LB264254 | 09 Nov 2022 | 11 Nov 2022 | 08 May 2023 | 18 Nov 2022 | 08 May 2023 | 22 Nov 2022 |
| BH92(0.2m) | SE239041.082 | LB264254 | 09 Nov 2022 | 11 Nov 2022 | 08 May 2023 | 18 Nov 2022 | 08 May 2023 | 22 Nov 2022 |
| BH93(0.2m) | SE239041.083 | LB264254 | 08 Nov 2022 | 11 Nov 2022 | 07 May 2023 | 18 Nov 2022 | 07 May 2023 | 22 Nov 2022 |
| BH94(0.2m) | SE239041.084 | LB264254 | 08 Nov 2022 | 11 Nov 2022 | 07 May 2023 | 18 Nov 2022 | 07 May 2023 | 22 Nov 2022 |
| BH95(0.2m) | SE239041.085 | LB264254 | 08 Nov 2022 | 11 Nov 2022 | 07 May 2023 | 18 Nov 2022 | 07 May 2023 | 22 Nov 2022 |
| BH96(0.7m) | SE239041.086 | LB264254 | 08 Nov 2022 | 11 Nov 2022 | 07 May 2023 | 18 Nov 2022 | 07 May 2023 | 22 Nov 2022 |
| BH97(0.2m) | SE239041.087 | LB264254 | 08 Nov 2022 | 11 Nov 2022 | 07 May 2023 | 18 Nov 2022 | 07 May 2023 | 22 Nov 2022 |
| BH98(0.2m) | SE239041.088 | LB264254 | 08 Nov 2022 | 11 Nov 2022 | 07 May 2023 | 18 Nov 2022 | 07 May 2023 | 22 Nov 2022 |
| BR1 | SE239041.089 | LB264254 | 07 Nov 2022 | 11 Nov 2022 | 06 May 2023 | 18 Nov 2022 | 06 May 2023 | 22 Nov 2022 |
| BR2 | SE239041.090 | LB264254 | 08 Nov 2022 | 11 Nov 2022 | 07 May 2023 | 18 Nov 2022 | 07 May 2023 | 22 Nov 2022 |
| BR3 | SE239041.091 | LB264254 | 09 Nov 2022 | 11 Nov 2022 | 08 May 2023 | 18 Nov 2022 | 08 May 2023 | 22 Nov 2022 |
| BR4 | SE239041.092 | LB264254 | 09 Nov 2022 | 11 Nov 2022 | 08 May 2023 | 18 Nov 2022 | 08 May 2023 | 22 Nov 2022 |
| WD1 | SE239041.093 | LB264254 | 10 Nov 2022 | 11 Nov 2022 | 09 May 2023 | 18 Nov 2022 | 09 May 2023 | 22 Nov 2022 |
| WD2 | SE239041.094 | LB264254 | 10 Nov 2022 | 11 Nov 2022 | 09 May 2023 | 18 Nov 2022 | 09 May 2023 | 22 Nov 2022 |
| TRIP BLANK | SE239041.098 | LB264254 | 10 Nov 2022 | 11 Nov 2022 | 09 May 2023 | 18 Nov 2022 | 09 May 2023 | 22 Nov 2022 |

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| WD1 | SE239041.095 | LB263915 | 10 Nov 2022 | 11 Nov 2022 | 09 May 2023 | 16 Nov 2022 | 09 May 2023 | 17 Nov 2022 |
| WD2 | SE239041.096 | LB263915 | 10 Nov 2022 | 11 Nov 2022 | 09 May 2023 | 16 Nov 2022 | 09 May 2023 | 17 Nov 2022 |
| RIN | SE239041.097 | LB263915 | 10 Nov 2022 | 11 Nov 2022 | 09 May 2023 | 16 Nov 2022 | 09 May 2023 | 17 Nov 2022 |

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH11(0.2m) | SE239041.001 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH12(0.7m) | SE239041.002 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |

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

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

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

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH13(0.2m) | SE239041.003 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH14(0.2m) | SE239041.004 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH15(0.5m) | SE239041.005 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH16(0.2m) | SE239041.006 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH17(0.7m) | SE239041.007 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH18(0.2m) | SE239041.008 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH19(0.2m) | SE239041.009 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH20(0.2m) | SE239041.010 | LB263988 | 10 Nov 2022 | 11 Nov 2022 | 24 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH21(0.5m) | SE239041.011 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH22(0.2m) | SE239041.012 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH23(0.2m) | SE239041.013 | LB263988 | 10 Nov 2022 | 11 Nov 2022 | 24 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH24(0.2m) | SE239041.014 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH25(0.2m) | SE239041.015 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH26(surface sample) | SE239041.016 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH27(0.2m) | SE239041.017 | LB263988 | 10 Nov 2022 | 11 Nov 2022 | 24 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH28(0.4m) | SE239041.018 | LB263988 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH29(0.5m) | SE239041.019 | LB263988 | 10 Nov 2022 | 11 Nov 2022 | 24 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH30(0.2m) | SE239041.020 | LB263989 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH31(0.2m) | SE239041.021 | LB263989 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH32(0.2m) | SE239041.022 | LB263989 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH33(0.2m) | SE239041.023 | LB263989 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH34(0.2m) | SE239041.024 | LB263989 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH35(0.2m) | SE239041.025 | LB263989 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH36(0.6m) | SE239041.026 | LB263989 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH37(0.6m) | SE239041.027 | LB263989 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH38(0.2m) | SE239041.028 | LB263989 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH39(0.2m) | SE239041.029 | LB263989 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH40(0.2m) | SE239041.030 | LB263989 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH41(0.5m) | SE239041.031 | LB263989 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH42(0.2m) | SE239041.032 | LB263989 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH43(0.2m) | SE239041.033 | LB263989 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH44(0.2m) | SE239041.034 | LB263989 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH45(0.2m) | SE239041.035 | LB263989 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH46(0.2m) | SE239041.036 | LB263989 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH47(0.7m) | SE239041.037 | LB263989 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH48(0.1m) | SE239041.038 | LB263989 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH49(0.5m) | SE239041.039 | LB263997 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH50(0.2m) | SE239041.040 | LB263997 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH51(0.2m) | SE239041.041 | LB263997 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH52(0.7m) | SE239041.042 | LB263997 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH53(0.2m) | SE239041.043 | LB263997 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH54(0.2m) | SE239041.044 | LB263997 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH55(0.7m) | SE239041.045 | LB263997 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH56(0.2m) | SE239041.046 | LB263997 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH57(0.2m) | SE239041.047 | LB263997 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH58(0.2m) | SE239041.048 | LB263997 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH59(0.2m) | SE239041.049 | LB263997 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH60(0.2m) | SE239041.050 | LB263997 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH61(0.5m) | SE239041.051 | LB263997 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH62(0.2m) | SE239041.052 | LB263997 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH63(0.2m) | SE239041.053 | LB263997 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH64(0.2m) | SE239041.054 | LB263997 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH65(0.9m) | SE239041.055 | LB263997 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH66(0.2m) | SE239041.056 | LB263997 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH67(0.2m) | SE239041.057 | LB263997 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH68(0.6m) | SE239041.058 | LB263998 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH69(0.2m) | SE239041.059 | LB263998 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH70(0.2m) | SE239041.060 | LB263998 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH71(0.2m) | SE239041.061 | LB263998 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH72(0.8m) | SE239041.062 | LB263998 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |

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

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

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

### TRH (Total Recoverable Hydrocarbons) in Soil (continued)

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH73(0.2m) | SE239041.063 | LB263998 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH74(0.2m) | SE239041.064 | LB263998 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH75(1.0m) | SE239041.065 | LB263998 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH76(0.2m) | SE239041.066 | LB263998 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH77(0.2m) | SE239041.067 | LB263998 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH78(0.2m) | SE239041.068 | LB263998 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH79(0.2m) | SE239041.069 | LB263998 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH80(0.6m) | SE239041.070 | LB263998 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH81(0.8m) | SE239041.071 | LB263998 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH82(0.2m) | SE239041.072 | LB263998 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH83(0.2m) | SE239041.073 | LB263998 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH84(0.1m) | SE239041.074 | LB263998 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH85(0.2m) | SE239041.075 | LB263998 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH86(0.7m) | SE239041.076 | LB263998 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH87(0.8m) | SE239041.077 | LB263999 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH88(0.2m) | SE239041.078 | LB263999 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH89(0.2m) | SE239041.079 | LB263999 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH90(0.2m) | SE239041.080 | LB263999 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH91(1.0m) | SE239041.081 | LB263999 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH92(0.2m) | SE239041.082 | LB263999 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH93(0.2m) | SE239041.083 | LB263999 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH94(0.2m) | SE239041.084 | LB263999 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH95(0.2m) | SE239041.085 | LB263999 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH96(0.7m) | SE239041.086 | LB263999 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH97(0.2m) | SE239041.087 | LB263999 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BH98(0.2m) | SE239041.088 | LB263999 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BR1 | SE239041.089 | LB263999 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BR2 | SE239041.090 | LB263999 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BR3 | SE239041.091 | LB263999 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| BR4 | SE239041.092 | LB263999 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| WD1 | SE239041.093 | LB263999 | 10 Nov 2022 | 11 Nov 2022 | 24 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| WD2 | SE239041.094 | LB263999 | 10 Nov 2022 | 11 Nov 2022 | 24 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| TRIP BLANK | SE239041.098 | LB263999 | 10 Nov 2022 | 11 Nov 2022 | 24 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |

### TRH (Total Recoverable Hydrocarbons) in Water

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| WD1 | SE239041.095 | LB263924 | 10 Nov 2022 | 11 Nov 2022 | 17 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| WD2 | SE239041.096 | LB263924 | 10 Nov 2022 | 11 Nov 2022 | 17 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |
| RIN | SE239041.097 | LB263924 | 10 Nov 2022 | 11 Nov 2022 | 17 Nov 2022 | 16 Nov 2022 | 26 Dec 2022 | 22 Nov 2022 |

### VOC's in Soil

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH11(0.2m) | SE239041.001 | LB264031 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH12(0.7m) | SE239041.002 | LB264031 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH13(0.2m) | SE239041.003 | LB264031 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH14(0.2m) | SE239041.004 | LB264031 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH15(0.5m) | SE239041.005 | LB264031 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH16(0.2m) | SE239041.006 | LB264031 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH17(0.7m) | SE239041.007 | LB264031 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH18(0.2m) | SE239041.008 | LB264031 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH19(0.2m) | SE239041.009 | LB264031 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH20(0.2m) | SE239041.010 | LB264031 | 10 Nov 2022 | 11 Nov 2022 | 24 Nov 2022 | 16 Nov 2022 | 24 Nov 2022 | 22 Nov 2022 |
| BH21(0.5m) | SE239041.011 | LB264031 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH22(0.2m) | SE239041.012 | LB264031 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH23(0.2m) | SE239041.013 | LB264031 | 10 Nov 2022 | 11 Nov 2022 | 24 Nov 2022 | 16 Nov 2022 | 24 Nov 2022 | 22 Nov 2022 |
| BH24(0.2m) | SE239041.014 | LB264031 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH25(0.2m) | SE239041.015 | LB264031 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH26(surface sample) | SE239041.016 | LB264031 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH27(0.2m) | SE239041.017 | LB264031 | 10 Nov 2022 | 11 Nov 2022 | 24 Nov 2022 | 16 Nov 2022 | 24 Nov 2022 | 22 Nov 2022 |
| BH28(0.4m) | SE239041.018 | LB264031 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH29(0.5m) | SE239041.019 | LB264031 | 10 Nov 2022 | 11 Nov 2022 | 24 Nov 2022 | 16 Nov 2022 | 24 Nov 2022 | 22 Nov 2022 |

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

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

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

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH30(0.2m) | SE239041.020 | LB264032 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BH31(0.2m) | SE239041.021 | LB264032 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BH32(0.2m) | SE239041.022 | LB264032 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 22 Nov 2022 | 23 Nov 2022† |
| BH33(0.2m) | SE239041.023 | LB264032 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 22 Nov 2022 | 23 Nov 2022† |
| BH34(0.2m) | SE239041.024 | LB264032 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 22 Nov 2022 | 23 Nov 2022† |
| BH35(0.2m) | SE239041.025 | LB264032 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 23 Nov 2022† |
| BH36(0.6m) | SE239041.026 | LB264032 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 23 Nov 2022† |
| BH37(0.6m) | SE239041.027 | LB264032 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BH38(0.2m) | SE239041.028 | LB264032 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BH39(0.2m) | SE239041.029 | LB264032 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BH40(0.2m) | SE239041.030 | LB264032 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 23 Nov 2022† |
| BH41(0.5m) | SE239041.031 | LB264032 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 23 Nov 2022† |
| BH42(0.2m) | SE239041.032 | LB264032 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 23 Nov 2022† |
| BH43(0.2m) | SE239041.033 | LB264032 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BH44(0.2m) | SE239041.034 | LB264032 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BH45(0.2m) | SE239041.035 | LB264032 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BH46(0.2m) | SE239041.036 | LB264032 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BH47(0.7m) | SE239041.037 | LB264032 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 22 Nov 2022 | 23 Nov 2022† |
| BH48(0.1m) | SE239041.038 | LB264032 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 22 Nov 2022 | 23 Nov 2022† |
| BH49(0.5m) | SE239041.039 | LB264033 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 22 Nov 2022 | 22 Nov 2022 |
| BH50(0.2m) | SE239041.040 | LB264033 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 22 Nov 2022 | 22 Nov 2022 |
| BH51(0.2m) | SE239041.041 | LB264033 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 22 Nov 2022 | 23 Nov 2022† |
| BH52(0.7m) | SE239041.042 | LB264033 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 22 Nov 2022 | 23 Nov 2022† |
| BH53(0.2m) | SE239041.043 | LB264033 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 22 Nov 2022 | 23 Nov 2022† |
| BH54(0.2m) | SE239041.044 | LB264033 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BH55(0.7m) | SE239041.045 | LB264033 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BH56(0.2m) | SE239041.046 | LB264033 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BH57(0.2m) | SE239041.047 | LB264033 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BH58(0.2m) | SE239041.048 | LB264033 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BH59(0.2m) | SE239041.049 | LB264033 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BH60(0.2m) | SE239041.050 | LB264033 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BH61(0.5m) | SE239041.051 | LB264033 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BH62(0.2m) | SE239041.052 | LB264033 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BH63(0.2m) | SE239041.053 | LB264033 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 23 Nov 2022† |
| BH64(0.2m) | SE239041.054 | LB264033 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 22 Nov 2022 | 23 Nov 2022† |
| BH65(0.9m) | SE239041.055 | LB264033 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 22 Nov 2022 | 23 Nov 2022† |
| BH66(0.2m) | SE239041.056 | LB264033 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 22 Nov 2022 | 23 Nov 2022† |
| BH67(0.2m) | SE239041.057 | LB264033 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 22 Nov 2022 | 23 Nov 2022† |
| BH68(0.6m) | SE239041.058 | LB264034 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 22 Nov 2022 | 22 Nov 2022 |
| BH69(0.2m) | SE239041.059 | LB264034 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 22 Nov 2022 | 22 Nov 2022 |
| BH70(0.2m) | SE239041.060 | LB264034 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 22 Nov 2022 | 22 Nov 2022 |
| BH71(0.2m) | SE239041.061 | LB264034 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 22 Nov 2022 | 22 Nov 2022 |
| BH72(0.8m) | SE239041.062 | LB264034 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 22 Nov 2022 | 22 Nov 2022 |
| BH73(0.2m) | SE239041.063 | LB264034 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 22 Nov 2022 | 22 Nov 2022 |
| BH74(0.2m) | SE239041.064 | LB264034 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 22 Nov 2022 | 22 Nov 2022 |
| BH75(1.0m) | SE239041.065 | LB264034 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 22 Nov 2022 | 22 Nov 2022 |
| BH76(0.2m) | SE239041.066 | LB264034 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 22 Nov 2022 | 22 Nov 2022 |
| BH77(0.2m) | SE239041.067 | LB264034 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 22 Nov 2022 | 22 Nov 2022 |
| BH78(0.2m) | SE239041.068 | LB264034 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BH79(0.2m) | SE239041.069 | LB264034 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BH80(0.6m) | SE239041.070 | LB264034 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BH81(0.8m) | SE239041.071 | LB264034 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BH82(0.2m) | SE239041.072 | LB264034 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BH83(0.2m) | SE239041.073 | LB264034 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BH84(0.1m) | SE239041.074 | LB264034 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BH85(0.2m) | SE239041.075 | LB264034 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BH86(0.7m) | SE239041.076 | LB264034 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BH87(0.8m) | SE239041.077 | LB264035 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BH88(0.2m) | SE239041.078 | LB264035 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BH89(0.2m) | SE239041.079 | LB264035 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |

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

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

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

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH90(0.2m) | SE239041.080 | LB264035 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BH91(1.0m) | SE239041.081 | LB264035 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BH92(0.2m) | SE239041.082 | LB264035 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BH93(0.2m) | SE239041.083 | LB264035 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 22 Nov 2022 | 23 Nov 2022† |
| BH94(0.2m) | SE239041.084 | LB264035 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 22 Nov 2022 | 23 Nov 2022† |
| BH95(0.2m) | SE239041.085 | LB264035 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 22 Nov 2022 | 23 Nov 2022† |
| BH96(0.7m) | SE239041.086 | LB264035 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 22 Nov 2022 | 23 Nov 2022† |
| BH97(0.2m) | SE239041.087 | LB264035 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 22 Nov 2022 | 23 Nov 2022† |
| BH98(0.2m) | SE239041.088 | LB264035 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 22 Nov 2022 | 23 Nov 2022† |
| BR1 | SE239041.089 | LB264035 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 23 Nov 2022† |
| BR2 | SE239041.090 | LB264035 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 22 Nov 2022 | 23 Nov 2022† |
| BR3 | SE239041.091 | LB264035 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BR4 | SE239041.092 | LB264035 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| WD1 | SE239041.093 | LB264035 | 10 Nov 2022 | 11 Nov 2022 | 24 Nov 2022 | 16 Nov 2022 | 24 Nov 2022 | 23 Nov 2022 |
| WD2 | SE239041.094 | LB264035 | 10 Nov 2022 | 11 Nov 2022 | 24 Nov 2022 | 16 Nov 2022 | 24 Nov 2022 | 23 Nov 2022 |
| TRIP BLANK | SE239041.098 | LB264035 | 10 Nov 2022 | 11 Nov 2022 | 24 Nov 2022 | 16 Nov 2022 | 24 Nov 2022 | 23 Nov 2022 |
| TRP SPIKE | SE239041.099 | LB264035 | 10 Nov 2022 | 11 Nov 2022 | 24 Nov 2022 | 16 Nov 2022 | 24 Nov 2022 | 23 Nov 2022 |

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| WD1 | SE239041.095 | LB264092 | 10 Nov 2022 | 11 Nov 2022 | 24 Nov 2022 | 17 Nov 2022 | 24 Nov 2022 | 18 Nov 2022 |
| WD2 | SE239041.096 | LB264092 | 10 Nov 2022 | 11 Nov 2022 | 24 Nov 2022 | 17 Nov 2022 | 24 Nov 2022 | 18 Nov 2022 |
| RIN | SE239041.097 | LB264092 | 10 Nov 2022 | 11 Nov 2022 | 24 Nov 2022 | 17 Nov 2022 | 24 Nov 2022 | 18 Nov 2022 |

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH11(0.2m) | SE239041.001 | LB264031 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH12(0.7m) | SE239041.002 | LB264031 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH13(0.2m) | SE239041.003 | LB264031 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH14(0.2m) | SE239041.004 | LB264031 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH15(0.5m) | SE239041.005 | LB264031 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH16(0.2m) | SE239041.006 | LB264031 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH17(0.7m) | SE239041.007 | LB264031 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH18(0.2m) | SE239041.008 | LB264031 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH19(0.2m) | SE239041.009 | LB264031 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH20(0.2m) | SE239041.010 | LB264031 | 10 Nov 2022 | 11 Nov 2022 | 24 Nov 2022 | 16 Nov 2022 | 24 Nov 2022 | 22 Nov 2022 |
| BH21(0.5m) | SE239041.011 | LB264031 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH22(0.2m) | SE239041.012 | LB264031 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH23(0.2m) | SE239041.013 | LB264031 | 10 Nov 2022 | 11 Nov 2022 | 24 Nov 2022 | 16 Nov 2022 | 24 Nov 2022 | 22 Nov 2022 |
| BH24(0.2m) | SE239041.014 | LB264031 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH25(0.2m) | SE239041.015 | LB264031 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH26(surface sample) | SE239041.016 | LB264031 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH27(0.2m) | SE239041.017 | LB264031 | 10 Nov 2022 | 11 Nov 2022 | 24 Nov 2022 | 16 Nov 2022 | 24 Nov 2022 | 22 Nov 2022 |
| BH28(0.4m) | SE239041.018 | LB264031 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 22 Nov 2022† |
| BH29(0.5m) | SE239041.019 | LB264031 | 10 Nov 2022 | 11 Nov 2022 | 24 Nov 2022 | 16 Nov 2022 | 24 Nov 2022 | 22 Nov 2022 |
| BH30(0.2m) | SE239041.020 | LB264032 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BH31(0.2m) | SE239041.021 | LB264032 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BH32(0.2m) | SE239041.022 | LB264032 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 22 Nov 2022 | 23 Nov 2022† |
| BH33(0.2m) | SE239041.023 | LB264032 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 22 Nov 2022 | 23 Nov 2022† |
| BH34(0.2m) | SE239041.024 | LB264032 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 22 Nov 2022 | 23 Nov 2022† |
| BH35(0.2m) | SE239041.025 | LB264032 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 23 Nov 2022† |
| BH36(0.6m) | SE239041.026 | LB264032 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 23 Nov 2022† |
| BH37(0.6m) | SE239041.027 | LB264032 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BH38(0.2m) | SE239041.028 | LB264032 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BH39(0.2m) | SE239041.029 | LB264032 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BH40(0.2m) | SE239041.030 | LB264032 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 23 Nov 2022† |
| BH41(0.5m) | SE239041.031 | LB264032 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 23 Nov 2022† |
| BH42(0.2m) | SE239041.032 | LB264032 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 23 Nov 2022† |
| BH43(0.2m) | SE239041.033 | LB264032 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BH44(0.2m) | SE239041.034 | LB264032 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BH45(0.2m) | SE239041.035 | LB264032 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |

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

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

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH46(0.2m) | SE239041.036 | LB264032 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BH47(0.7m) | SE239041.037 | LB264032 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 22 Nov 2022 | 23 Nov 2022† |
| BH48(0.1m) | SE239041.038 | LB264032 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 22 Nov 2022 | 23 Nov 2022† |
| BH49(0.5m) | SE239041.039 | LB264033 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 22 Nov 2022 | 22 Nov 2022 |
| BH50(0.2m) | SE239041.040 | LB264033 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 22 Nov 2022 | 22 Nov 2022 |
| BH51(0.2m) | SE239041.041 | LB264033 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 22 Nov 2022 | 23 Nov 2022† |
| BH52(0.7m) | SE239041.042 | LB264033 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 22 Nov 2022 | 23 Nov 2022† |
| BH53(0.2m) | SE239041.043 | LB264033 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 22 Nov 2022 | 23 Nov 2022† |
| BH54(0.2m) | SE239041.044 | LB264033 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BH55(0.7m) | SE239041.045 | LB264033 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BH56(0.2m) | SE239041.046 | LB264033 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BH57(0.2m) | SE239041.047 | LB264033 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BH58(0.2m) | SE239041.048 | LB264033 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BH59(0.2m) | SE239041.049 | LB264033 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BH60(0.2m) | SE239041.050 | LB264033 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BH61(0.5m) | SE239041.051 | LB264033 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BH62(0.2m) | SE239041.052 | LB264033 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BH63(0.2m) | SE239041.053 | LB264033 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 23 Nov 2022† |
| BH64(0.2m) | SE239041.054 | LB264033 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 22 Nov 2022 | 23 Nov 2022† |
| BH65(0.9m) | SE239041.055 | LB264033 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 22 Nov 2022 | 23 Nov 2022† |
| BH66(0.2m) | SE239041.056 | LB264033 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 22 Nov 2022 | 23 Nov 2022† |
| BH67(0.2m) | SE239041.057 | LB264033 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 22 Nov 2022 | 23 Nov 2022† |
| BH68(0.6m) | SE239041.058 | LB264034 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 22 Nov 2022 | 22 Nov 2022 |
| BH69(0.2m) | SE239041.059 | LB264034 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 22 Nov 2022 | 22 Nov 2022 |
| BH70(0.2m) | SE239041.060 | LB264034 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 22 Nov 2022 | 22 Nov 2022 |
| BH71(0.2m) | SE239041.061 | LB264034 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 22 Nov 2022 | 22 Nov 2022 |
| BH72(0.8m) | SE239041.062 | LB264034 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 22 Nov 2022 | 22 Nov 2022 |
| BH73(0.2m) | SE239041.063 | LB264034 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 22 Nov 2022 | 22 Nov 2022 |
| BH74(0.2m) | SE239041.064 | LB264034 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 22 Nov 2022 | 22 Nov 2022 |
| BH75(1.0m) | SE239041.065 | LB264034 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 22 Nov 2022 | 22 Nov 2022 |
| BH76(0.2m) | SE239041.066 | LB264034 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 22 Nov 2022 | 22 Nov 2022 |
| BH77(0.2m) | SE239041.067 | LB264034 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 22 Nov 2022 | 22 Nov 2022 |
| BH78(0.2m) | SE239041.068 | LB264034 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BH79(0.2m) | SE239041.069 | LB264034 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BH80(0.6m) | SE239041.070 | LB264034 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BH81(0.8m) | SE239041.071 | LB264034 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BH82(0.2m) | SE239041.072 | LB264034 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BH83(0.2m) | SE239041.073 | LB264034 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BH84(0.1m) | SE239041.074 | LB264034 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BH85(0.2m) | SE239041.075 | LB264034 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BH86(0.7m) | SE239041.076 | LB264034 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BH87(0.8m) | SE239041.077 | LB264035 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BH88(0.2m) | SE239041.078 | LB264035 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BH89(0.2m) | SE239041.079 | LB264035 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BH90(0.2m) | SE239041.080 | LB264035 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BH91(1.0m) | SE239041.081 | LB264035 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BH92(0.2m) | SE239041.082 | LB264035 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BH93(0.2m) | SE239041.083 | LB264035 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 22 Nov 2022 | 23 Nov 2022† |
| BH94(0.2m) | SE239041.084 | LB264035 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 22 Nov 2022 | 23 Nov 2022† |
| BH95(0.2m) | SE239041.085 | LB264035 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 22 Nov 2022 | 23 Nov 2022† |
| BH96(0.7m) | SE239041.086 | LB264035 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 22 Nov 2022 | 23 Nov 2022† |
| BH97(0.2m) | SE239041.087 | LB264035 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 22 Nov 2022 | 23 Nov 2022† |
| BH98(0.2m) | SE239041.088 | LB264035 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 22 Nov 2022 | 23 Nov 2022† |
| BR1 | SE239041.089 | LB264035 | 07 Nov 2022 | 11 Nov 2022 | 21 Nov 2022 | 16 Nov 2022 | 21 Nov 2022 | 23 Nov 2022† |
| BR2 | SE239041.090 | LB264035 | 08 Nov 2022 | 11 Nov 2022 | 22 Nov 2022 | 16 Nov 2022 | 22 Nov 2022 | 23 Nov 2022† |
| BR3 | SE239041.091 | LB264035 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| BR4 | SE239041.092 | LB264035 | 09 Nov 2022 | 11 Nov 2022 | 23 Nov 2022 | 16 Nov 2022 | 23 Nov 2022 | 23 Nov 2022 |
| WD1 | SE239041.093 | LB264035 | 10 Nov 2022 | 11 Nov 2022 | 24 Nov 2022 | 16 Nov 2022 | 24 Nov 2022 | 23 Nov 2022 |
| WD2 | SE239041.094 | LB264035 | 10 Nov 2022 | 11 Nov 2022 | 24 Nov 2022 | 16 Nov 2022 | 24 Nov 2022 | 23 Nov 2022 |
| TRIP BLANK | SE239041.098 | LB264035 | 10 Nov 2022 | 11 Nov 2022 | 24 Nov 2022 | 16 Nov 2022 | 24 Nov 2022 | 23 Nov 2022 |

# HOLDING TIME SUMMARY

SE239041 R1

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

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

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

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| TRP SPIKE | SE239041.099 | LB264035 | 10 Nov 2022 | 11 Nov 2022 | 24 Nov 2022 | 16 Nov 2022 | 24 Nov 2022 | 23 Nov 2022 |

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| WD1 | SE239041.095 | LB264092 | 10 Nov 2022 | 11 Nov 2022 | 24 Nov 2022 | 17 Nov 2022 | 24 Nov 2022 | 18 Nov 2022 |
| WD2 | SE239041.096 | LB264092 | 10 Nov 2022 | 11 Nov 2022 | 24 Nov 2022 | 17 Nov 2022 | 24 Nov 2022 | 18 Nov 2022 |
| RIN | SE239041.097 | LB264092 | 10 Nov 2022 | 11 Nov 2022 | 24 Nov 2022 | 17 Nov 2022 | 24 Nov 2022 | 18 Nov 2022 |

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

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

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| Tetrachloro-m-xylene (TCMX) (Surrogate) | BH11(0.2m) | SE239041.001 | % | 60 - 130% | 112 |
| | BH12(0.7m) | SE239041.002 | % | 60 - 130% | 111 |
| | BH13(0.2m) | SE239041.003 | % | 60 - 130% | 111 |
| | BH14(0.2m) | SE239041.004 | % | 60 - 130% | 113 |
| | BH15(0.5m) | SE239041.005 | % | 60 - 130% | 106 |
| | BH16(0.2m) | SE239041.006 | % | 60 - 130% | 116 |
| | BH17(0.7m) | SE239041.007 | % | 60 - 130% | 111 |
| | BH18(0.2m) | SE239041.008 | % | 60 - 130% | 112 |
| | BH19(0.2m) | SE239041.009 | % | 60 - 130% | 104 |
| | BH20(0.2m) | SE239041.010 | % | 60 - 130% | 106 |
| | BH21(0.5m) | SE239041.011 | % | 60 - 130% | 97 |
| | BH22(0.2m) | SE239041.012 | % | 60 - 130% | 96 |
| | BH23(0.2m) | SE239041.013 | % | 60 - 130% | 87 |
| | BH24(0.2m) | SE239041.014 | % | 60 - 130% | 90 |
| | BH25(0.2m) | SE239041.015 | % | 60 - 130% | 83 |
| | BH26(surface sample) | SE239041.016 | % | 60 - 130% | 90 |
| | BH27(0.2m) | SE239041.017 | % | 60 - 130% | 85 |
| | BH28(0.4m) | SE239041.018 | % | 60 - 130% | 92 |
| | BH29(0.5m) | SE239041.019 | % | 60 - 130% | 93 |
| | BH30(0.2m) | SE239041.020 | % | 60 - 130% | 108 |
| | BH31(0.2m) | SE239041.021 | % | 60 - 130% | 113 |
| | BH32(0.2m) | SE239041.022 | % | 60 - 130% | 115 |
| | BH33(0.2m) | SE239041.023 | % | 60 - 130% | 110 |
| | BH34(0.2m) | SE239041.024 | % | 60 - 130% | 119 |
| | BH35(0.2m) | SE239041.025 | % | 60 - 130% | 128 |
| | BH36(0.6m) | SE239041.026 | % | 60 - 130% | 107 |
| | BH37(0.6m) | SE239041.027 | % | 60 - 130% | 107 |
| | BH38(0.2m) | SE239041.028 | % | 60 - 130% | 119 |
| | BH39(0.2m) | SE239041.029 | % | 60 - 130% | 109 |
| | BH40(0.2m) | SE239041.030 | % | 60 - 130% | 109 |
| | BH41(0.5m) | SE239041.031 | % | 60 - 130% | 109 |
| | BH42(0.2m) | SE239041.032 | % | 60 - 130% | 115 |
| | BH43(0.2m) | SE239041.033 | % | 60 - 130% | 109 |
| | BH44(0.2m) | SE239041.034 | % | 60 - 130% | 109 |
| | BH45(0.2m) | SE239041.035 | % | 60 - 130% | 108 |
| | BH46(0.2m) | SE239041.036 | % | 60 - 130% | 111 |
| | BH47(0.7m) | SE239041.037 | % | 60 - 130% | 102 |
| | BH48(0.1m) | SE239041.038 | % | 60 - 130% | 109 |
| | BH49(0.5m) | SE239041.039 | % | 60 - 130% | 99 |
| | BH50(0.2m) | SE239041.040 | % | 60 - 130% | 108 |
| | BH51(0.2m) | SE239041.041 | % | 60 - 130% | 112 |
| | BH52(0.7m) | SE239041.042 | % | 60 - 130% | 102 |
| | BH53(0.2m) | SE239041.043 | % | 60 - 130% | 109 |
| | BH54(0.2m) | SE239041.044 | % | 60 - 130% | 103 |
| | BH55(0.7m) | SE239041.045 | % | 60 - 130% | 101 |
| | BH56(0.2m) | SE239041.046 | % | 60 - 130% | 108 |
| | BH57(0.2m) | SE239041.047 | % | 60 - 130% | 110 |
| | BH58(0.2m) | SE239041.048 | % | 60 - 130% | 110 |
| | BH59(0.2m) | SE239041.049 | % | 60 - 130% | 104 |
| | BH60(0.2m) | SE239041.050 | % | 60 - 130% | 105 |
| | BH61(0.5m) | SE239041.051 | % | 60 - 130% | 104 |
| | BH62(0.2m) | SE239041.052 | % | 60 - 130% | 106 |
| | BH63(0.2m) | SE239041.053 | % | 60 - 130% | 112 |
| | BH64(0.2m) | SE239041.054 | % | 60 - 130% | 99 |
| | BH65(0.9m) | SE239041.055 | % | 60 - 130% | 104 |
| | BH66(0.2m) | SE239041.056 | % | 60 - 130% | 109 |
| | BH67(0.2m) | SE239041.057 | % | 60 - 130% | 105 |
| | BH68(0.6m) | SE239041.058 | % | 60 - 130% | 106 |
| | BH69(0.2m) | SE239041.059 | % | 60 - 130% | 116 |
| | BH70(0.2m) | SE239041.060 | % | 60 - 130% | 113 |
| | BH71(0.2m) | SE239041.061 | % | 60 - 130% | 111 |

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

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

## OC Pesticides in Soil (continued)

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| Tetrachloro-m-xylene (TCMX) (Surrogate) | BH72(0.8m) | SE239041.062 | % | 60 - 130% | 109 |
| | BH73(0.2m) | SE239041.063 | % | 60 - 130% | 118 |
| | BH74(0.2m) | SE239041.064 | % | 60 - 130% | 107 |
| | BH75(1.0m) | SE239041.065 | % | 60 - 130% | 105 |
| | BH76(0.2m) | SE239041.066 | % | 60 - 130% | 112 |
| | BH77(0.2m) | SE239041.067 | % | 60 - 130% | 108 |
| | BH78(0.2m) | SE239041.068 | % | 60 - 130% | 112 |
| | BH79(0.2m) | SE239041.069 | % | 60 - 130% | 110 |
| | BH80(0.6m) | SE239041.070 | % | 60 - 130% | 111 |
| | BH81(0.8m) | SE239041.071 | % | 60 - 130% | 107 |
| | BH82(0.2m) | SE239041.072 | % | 60 - 130% | 109 |
| | BH83(0.2m) | SE239041.073 | % | 60 - 130% | 120 |
| | BH84(0.1m) | SE239041.074 | % | 60 - 130% | 108 |
| | BH85(0.2m) | SE239041.075 | % | 60 - 130% | 106 |
| | BH86(0.7m) | SE239041.076 | % | 60 - 130% | 106 |
| | BH87(0.8m) | SE239041.077 | % | 60 - 130% | 114 |
| | BH88(0.2m) | SE239041.078 | % | 60 - 130% | 113 |
| | BH89(0.2m) | SE239041.079 | % | 60 - 130% | 111 |
| | BH90(0.2m) | SE239041.080 | % | 60 - 130% | 111 |
| | BH91(1.0m) | SE239041.081 | % | 60 - 130% | 106 |
| | BH92(0.2m) | SE239041.082 | % | 60 - 130% | 114 |
| | BH93(0.2m) | SE239041.083 | % | 60 - 130% | 119 |
| | BH94(0.2m) | SE239041.084 | % | 60 - 130% | 111 |
| | BH95(0.2m) | SE239041.085 | % | 60 - 130% | 112 |
| | BH96(0.7m) | SE239041.086 | % | 60 - 130% | 112 |
| | BH97(0.2m) | SE239041.087 | % | 60 - 130% | 120 |
| | BH98(0.2m) | SE239041.088 | % | 60 - 130% | 118 |
| | BR1 | SE239041.089 | % | 60 - 130% | 117 |
| | BR2 | SE239041.090 | % | 60 - 130% | 116 |
| | BR3 | SE239041.091 | % | 60 - 130% | 118 |
| | BR4 | SE239041.092 | % | 60 - 130% | 113 |
| | WD1 | SE239041.093 | % | 60 - 130% | 122 |
| | WD2 | SE239041.094 | % | 60 - 130% | 112 |

## OC Pesticides in Water

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| Tetrachloro-m-xylene (TCMX) (Surrogate) | WD1 | SE239041.095 | % | 40 - 130% | 29 ④ |
| | WD2 | SE239041.096 | % | 40 - 130% | 69 |
| | RIN | SE239041.097 | % | 40 - 130% | 60 |

## OP Pesticides in Soil

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| 2-fluorobiphenyl (Surrogate) | BH11(0.2m) | SE239041.001 | % | 60 - 130% | 85 |
| | BH12(0.7m) | SE239041.002 | % | 60 - 130% | 98 |
| | BH13(0.2m) | SE239041.003 | % | 60 - 130% | 94 |
| | BH14(0.2m) | SE239041.004 | % | 60 - 130% | 97 |
| | BH15(0.5m) | SE239041.005 | % | 60 - 130% | 93 |
| | BH16(0.2m) | SE239041.006 | % | 60 - 130% | 71 |
| | BH17(0.7m) | SE239041.007 | % | 60 - 130% | 98 |
| | BH18(0.2m) | SE239041.008 | % | 60 - 130% | 100 |
| | BH19(0.2m) | SE239041.009 | % | 60 - 130% | 92 |
| | BH20(0.2m) | SE239041.010 | % | 60 - 130% | 94 |
| | BH21(0.5m) | SE239041.011 | % | 60 - 130% | 99 |
| | BH22(0.2m) | SE239041.012 | % | 60 - 130% | 98 |
| | BH23(0.2m) | SE239041.013 | % | 60 - 130% | 95 |
| | BH24(0.2m) | SE239041.014 | % | 60 - 130% | 97 |
| | BH25(0.2m) | SE239041.015 | % | 60 - 130% | 77 |
| | BH26(surface sample) | SE239041.016 | % | 60 - 130% | 96 |
| | BH27(0.2m) | SE239041.017 | % | 60 - 130% | 93 |
| | BH28(0.4m) | SE239041.018 | % | 60 - 130% | 96 |
| | BH29(0.5m) | SE239041.019 | % | 60 - 130% | 97 |
| | BH30(0.2m) | SE239041.020 | % | 60 - 130% | 93 |

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

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

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| 2-fluorobiphenyl (Surrogate) | BH31(0.2m) | SE239041.021 | % | 60 - 130% | 93 |
| | BH32(0.2m) | SE239041.022 | % | 60 - 130% | 94 |
| | BH33(0.2m) | SE239041.023 | % | 60 - 130% | 94 |
| | BH34(0.2m) | SE239041.024 | % | 60 - 130% | 95 |
| | BH35(0.2m) | SE239041.025 | % | 60 - 130% | 93 |
| | BH36(0.6m) | SE239041.026 | % | 60 - 130% | 92 |
| | BH37(0.6m) | SE239041.027 | % | 60 - 130% | 91 |
| | BH38(0.2m) | SE239041.028 | % | 60 - 130% | 93 |
| | BH39(0.2m) | SE239041.029 | % | 60 - 130% | 94 |
| | BH40(0.2m) | SE239041.030 | % | 60 - 130% | 94 |
| | BH41(0.5m) | SE239041.031 | % | 60 - 130% | 88 |
| | BH42(0.2m) | SE239041.032 | % | 60 - 130% | 93 |
| | BH43(0.2m) | SE239041.033 | % | 60 - 130% | 108 |
| | BH44(0.2m) | SE239041.034 | % | 60 - 130% | 93 |
| | BH45(0.2m) | SE239041.035 | % | 60 - 130% | 85 |
| | BH46(0.2m) | SE239041.036 | % | 60 - 130% | 93 |
| | BH47(0.7m) | SE239041.037 | % | 60 - 130% | 92 |
| | BH48(0.1m) | SE239041.038 | % | 60 - 130% | 95 |
| | BH49(0.5m) | SE239041.039 | % | 60 - 130% | 90 |
| | BH50(0.2m) | SE239041.040 | % | 60 - 130% | 94 |
| | BH51(0.2m) | SE239041.041 | % | 60 - 130% | 95 |
| | BH52(0.7m) | SE239041.042 | % | 60 - 130% | 90 |
| | BH53(0.2m) | SE239041.043 | % | 60 - 130% | 95 |
| | BH54(0.2m) | SE239041.044 | % | 60 - 130% | 90 |
| | BH55(0.7m) | SE239041.045 | % | 60 - 130% | 90 |
| | BH56(0.2m) | SE239041.046 | % | 60 - 130% | 94 |
| | BH57(0.2m) | SE239041.047 | % | 60 - 130% | 94 |
| | BH58(0.2m) | SE239041.048 | % | 60 - 130% | 94 |
| | BH59(0.2m) | SE239041.049 | % | 60 - 130% | 91 |
| | BH60(0.2m) | SE239041.050 | % | 60 - 130% | 78 |
| | BH61(0.5m) | SE239041.051 | % | 60 - 130% | 91 |
| | BH62(0.2m) | SE239041.052 | % | 60 - 130% | 97 |
| | BH63(0.2m) | SE239041.053 | % | 60 - 130% | 94 |
| | BH64(0.2m) | SE239041.054 | % | 60 - 130% | 88 |
| | BH65(0.9m) | SE239041.055 | % | 60 - 130% | 90 |
| | BH66(0.2m) | SE239041.056 | % | 60 - 130% | 92 |
| | BH67(0.2m) | SE239041.057 | % | 60 - 130% | 93 |
| | BH68(0.6m) | SE239041.058 | % | 60 - 130% | 93 |
| | BH69(0.2m) | SE239041.059 | % | 60 - 130% | 104 |
| | BH70(0.2m) | SE239041.060 | % | 60 - 130% | 93 |
| | BH71(0.2m) | SE239041.061 | % | 60 - 130% | 92 |
| | BH72(0.8m) | SE239041.062 | % | 60 - 130% | 92 |
| | BH73(0.2m) | SE239041.063 | % | 60 - 130% | 93 |
| | BH74(0.2m) | SE239041.064 | % | 60 - 130% | 92 |
| | BH75(1.0m) | SE239041.065 | % | 60 - 130% | 92 |
| | BH76(0.2m) | SE239041.066 | % | 60 - 130% | 100 |
| | BH77(0.2m) | SE239041.067 | % | 60 - 130% | 98 |
| | BH78(0.2m) | SE239041.068 | % | 60 - 130% | 94 |
| | BH79(0.2m) | SE239041.069 | % | 60 - 130% | 93 |
| | BH80(0.6m) | SE239041.070 | % | 60 - 130% | 90 |
| | BH81(0.8m) | SE239041.071 | % | 60 - 130% | 91 |
| | BH82(0.2m) | SE239041.072 | % | 60 - 130% | 95 |
| | BH83(0.2m) | SE239041.073 | % | 60 - 130% | 95 |
| | BH84(0.1m) | SE239041.074 | % | 60 - 130% | 99 |
| | BH85(0.2m) | SE239041.075 | % | 60 - 130% | 93 |
| | BH86(0.7m) | SE239041.076 | % | 60 - 130% | 86 |
| | BH87(0.8m) | SE239041.077 | % | 60 - 130% | 95 |
| | BH88(0.2m) | SE239041.078 | % | 60 - 130% | 97 |
| | BH89(0.2m) | SE239041.079 | % | 60 - 130% | 95 |
| | BH90(0.2m) | SE239041.080 | % | 60 - 130% | 95 |
| | BH91(1.0m) | SE239041.081 | % | 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 identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| 2-fluorobiphenyl (Surrogate) | BH92(0.2m) | SE239041.082 | % | 60 - 130% | 95 |
| | BH93(0.2m) | SE239041.083 | % | 60 - 130% | 95 |
| | BH94(0.2m) | SE239041.084 | % | 60 - 130% | 94 |
| | BH95(0.2m) | SE239041.085 | % | 60 - 130% | 95 |
| | BH96(0.7m) | SE239041.086 | % | 60 - 130% | 89 |
| | BH97(0.2m) | SE239041.087 | % | 60 - 130% | 94 |
| | BH98(0.2m) | SE239041.088 | % | 60 - 130% | 97 |
| | BR1 | SE239041.089 | % | 60 - 130% | 93 |
| | BR2 | SE239041.090 | % | 60 - 130% | 112 |
| | BR3 | SE239041.091 | % | 60 - 130% | 94 |
| | BR4 | SE239041.092 | % | 60 - 130% | 93 |
| | WD1 | SE239041.093 | % | 60 - 130% | 98 |
| | WD2 | SE239041.094 | % | 60 - 130% | 99 |
| d14-p-terphenyl (Surrogate) | BH11(0.2m) | SE239041.001 | % | 60 - 130% | 94 |
| | BH12(0.7m) | SE239041.002 | % | 60 - 130% | 102 |
| | BH13(0.2m) | SE239041.003 | % | 60 - 130% | 98 |
| | BH14(0.2m) | SE239041.004 | % | 60 - 130% | 101 |
| | BH15(0.5m) | SE239041.005 | % | 60 - 130% | 98 |
| | BH16(0.2m) | SE239041.006 | % | 60 - 130% | 70 |
| | BH17(0.7m) | SE239041.007 | % | 60 - 130% | 102 |
| | BH18(0.2m) | SE239041.008 | % | 60 - 130% | 104 |
| | BH19(0.2m) | SE239041.009 | % | 60 - 130% | 97 |
| | BH20(0.2m) | SE239041.010 | % | 60 - 130% | 99 |
| | BH21(0.5m) | SE239041.011 | % | 60 - 130% | 101 |
| | BH22(0.2m) | SE239041.012 | % | 60 - 130% | 100 |
| | BH23(0.2m) | SE239041.013 | % | 60 - 130% | 97 |
| | BH24(0.2m) | SE239041.014 | % | 60 - 130% | 101 |
| | BH25(0.2m) | SE239041.015 | % | 60 - 130% | 81 |
| | BH26(surface sample) | SE239041.016 | % | 60 - 130% | 101 |
| | BH27(0.2m) | SE239041.017 | % | 60 - 130% | 97 |
| | BH28(0.4m) | SE239041.018 | % | 60 - 130% | 100 |
| | BH29(0.5m) | SE239041.019 | % | 60 - 130% | 101 |
| | BH30(0.2m) | SE239041.020 | % | 60 - 130% | 96 |
| | BH31(0.2m) | SE239041.021 | % | 60 - 130% | 95 |
| | BH32(0.2m) | SE239041.022 | % | 60 - 130% | 97 |
| | BH33(0.2m) | SE239041.023 | % | 60 - 130% | 96 |
| | BH34(0.2m) | SE239041.024 | % | 60 - 130% | 98 |
| | BH35(0.2m) | SE239041.025 | % | 60 - 130% | 96 |
| | BH36(0.6m) | SE239041.026 | % | 60 - 130% | 96 |
| | BH37(0.6m) | SE239041.027 | % | 60 - 130% | 94 |
| | BH38(0.2m) | SE239041.028 | % | 60 - 130% | 95 |
| | BH39(0.2m) | SE239041.029 | % | 60 - 130% | 97 |
| | BH40(0.2m) | SE239041.030 | % | 60 - 130% | 97 |
| | BH41(0.5m) | SE239041.031 | % | 60 - 130% | 92 |
| | BH42(0.2m) | SE239041.032 | % | 60 - 130% | 97 |
| | BH43(0.2m) | SE239041.033 | % | 60 - 130% | 113 |
| | BH44(0.2m) | SE239041.034 | % | 60 - 130% | 97 |
| | BH45(0.2m) | SE239041.035 | % | 60 - 130% | 88 |
| | BH46(0.2m) | SE239041.036 | % | 60 - 130% | 96 |
| | BH47(0.7m) | SE239041.037 | % | 60 - 130% | 95 |
| | BH48(0.1m) | SE239041.038 | % | 60 - 130% | 98 |
| | BH49(0.5m) | SE239041.039 | % | 60 - 130% | 94 |
| | BH50(0.2m) | SE239041.040 | % | 60 - 130% | 96 |
| | BH51(0.2m) | SE239041.041 | % | 60 - 130% | 99 |
| | BH52(0.7m) | SE239041.042 | % | 60 - 130% | 93 |
| | BH53(0.2m) | SE239041.043 | % | 60 - 130% | 98 |
| | BH54(0.2m) | SE239041.044 | % | 60 - 130% | 93 |
| | BH55(0.7m) | SE239041.045 | % | 60 - 130% | 94 |
| | BH56(0.2m) | SE239041.046 | % | 60 - 130% | 98 |
| | BH57(0.2m) | SE239041.047 | % | 60 - 130% | 97 |
| | BH58(0.2m) | SE239041.048 | % | 60 - 130% | 96 |

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

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| d14-p-terphenyl (Surrogate) | BH59(0.2m) | SE239041.049 | % | 60 - 130% | 94 |
| | BH60(0.2m) | SE239041.050 | % | 60 - 130% | 72 |
| | BH61(0.5m) | SE239041.051 | % | 60 - 130% | 96 |
| | BH62(0.2m) | SE239041.052 | % | 60 - 130% | 100 |
| | BH63(0.2m) | SE239041.053 | % | 60 - 130% | 96 |
| | BH64(0.2m) | SE239041.054 | % | 60 - 130% | 91 |
| | BH65(0.9m) | SE239041.055 | % | 60 - 130% | 94 |
| | BH66(0.2m) | SE239041.056 | % | 60 - 130% | 96 |
| | BH67(0.2m) | SE239041.057 | % | 60 - 130% | 97 |
| | BH68(0.6m) | SE239041.058 | % | 60 - 130% | 96 |
| | BH69(0.2m) | SE239041.059 | % | 60 - 130% | 108 |
| | BH70(0.2m) | SE239041.060 | % | 60 - 130% | 97 |
| | BH71(0.2m) | SE239041.061 | % | 60 - 130% | 95 |
| | BH72(0.8m) | SE239041.062 | % | 60 - 130% | 96 |
| | BH73(0.2m) | SE239041.063 | % | 60 - 130% | 96 |
| | BH74(0.2m) | SE239041.064 | % | 60 - 130% | 97 |
| | BH75(1.0m) | SE239041.065 | % | 60 - 130% | 95 |
| | BH76(0.2m) | SE239041.066 | % | 60 - 130% | 102 |
| | BH77(0.2m) | SE239041.067 | % | 60 - 130% | 101 |
| | BH78(0.2m) | SE239041.068 | % | 60 - 130% | 97 |
| | BH79(0.2m) | SE239041.069 | % | 60 - 130% | 95 |
| | BH80(0.6m) | SE239041.070 | % | 60 - 130% | 92 |
| | BH81(0.8m) | SE239041.071 | % | 60 - 130% | 93 |
| | BH82(0.2m) | SE239041.072 | % | 60 - 130% | 98 |
| | BH83(0.2m) | SE239041.073 | % | 60 - 130% | 97 |
| | BH84(0.1m) | SE239041.074 | % | 60 - 130% | 100 |
| | BH85(0.2m) | SE239041.075 | % | 60 - 130% | 95 |
| | BH86(0.7m) | SE239041.076 | % | 60 - 130% | 90 |
| | BH87(0.8m) | SE239041.077 | % | 60 - 130% | 99 |
| | BH88(0.2m) | SE239041.078 | % | 60 - 130% | 100 |
| | BH89(0.2m) | SE239041.079 | % | 60 - 130% | 100 |
| | BH90(0.2m) | SE239041.080 | % | 60 - 130% | 99 |
| | BH91(1.0m) | SE239041.081 | % | 60 - 130% | 99 |
| | BH92(0.2m) | SE239041.082 | % | 60 - 130% | 100 |
| | BH93(0.2m) | SE239041.083 | % | 60 - 130% | 99 |
| | BH94(0.2m) | SE239041.084 | % | 60 - 130% | 99 |
| | BH95(0.2m) | SE239041.085 | % | 60 - 130% | 99 |
| | BH96(0.7m) | SE239041.086 | % | 60 - 130% | 96 |
| | BH97(0.2m) | SE239041.087 | % | 60 - 130% | 98 |
| | BH98(0.2m) | SE239041.088 | % | 60 - 130% | 100 |
| | BR1 | SE239041.089 | % | 60 - 130% | 97 |
| | BR2 | SE239041.090 | % | 60 - 130% | 120 |
| | BR3 | SE239041.091 | % | 60 - 130% | 98 |
| | BR4 | SE239041.092 | % | 60 - 130% | 98 |
| | WD1 | SE239041.093 | % | 60 - 130% | 102 |
| | WD2 | SE239041.094 | % | 60 - 130% | 103 |

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| 2-fluorobiphenyl (Surrogate) | WD1 | SE239041.095 | % | 40 - 130% | 26 ④ |
| | WD2 | SE239041.096 | % | 40 - 130% | 54 |
| | RIN | SE239041.097 | % | 40 - 130% | 62 |
| d14-p-terphenyl (Surrogate) | WD1 | SE239041.095 | % | 40 - 130% | 42 |
| | WD2 | SE239041.096 | % | 40 - 130% | 78 |
| | RIN | SE239041.097 | % | 40 - 130% | 76 |

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| 2-fluorobiphenyl (Surrogate) | BH11(0.2m) | SE239041.001 | % | 70 - 130% | 85 |
| | BH12(0.7m) | SE239041.002 | % | 70 - 130% | 98 |
| | BH13(0.2m) | SE239041.003 | % | 70 - 130% | 94 |
| | BH14(0.2m) | SE239041.004 | % | 70 - 130% | 97 |

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

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

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| 2-fluorobiphenyl (Surrogate) | BH15(0.5m) | SE239041.005 | % | 70 - 130% | 93 |
| | BH16(0.2m) | SE239041.006 | % | 70 - 130% | 71 |
| | BH17(0.7m) | SE239041.007 | % | 70 - 130% | 98 |
| | BH18(0.2m) | SE239041.008 | % | 70 - 130% | 100 |
| | BH19(0.2m) | SE239041.009 | % | 70 - 130% | 92 |
| | BH20(0.2m) | SE239041.010 | % | 70 - 130% | 94 |
| | BH21(0.5m) | SE239041.011 | % | 70 - 130% | 99 |
| | BH22(0.2m) | SE239041.012 | % | 70 - 130% | 98 |
| | BH23(0.2m) | SE239041.013 | % | 70 - 130% | 95 |
| | BH24(0.2m) | SE239041.014 | % | 70 - 130% | 97 |
| | BH25(0.2m) | SE239041.015 | % | 70 - 130% | 77 |
| | BH26(surface sample) | SE239041.016 | % | 70 - 130% | 96 |
| | BH27(0.2m) | SE239041.017 | % | 70 - 130% | 93 |
| | BH28(0.4m) | SE239041.018 | % | 70 - 130% | 96 |
| | BH29(0.5m) | SE239041.019 | % | 70 - 130% | 97 |
| | BH30(0.2m) | SE239041.020 | % | 70 - 130% | 93 |
| | BH31(0.2m) | SE239041.021 | % | 70 - 130% | 93 |
| | BH32(0.2m) | SE239041.022 | % | 70 - 130% | 94 |
| | BH33(0.2m) | SE239041.023 | % | 70 - 130% | 94 |
| | BH34(0.2m) | SE239041.024 | % | 70 - 130% | 95 |
| | BH35(0.2m) | SE239041.025 | % | 70 - 130% | 93 |
| | BH36(0.6m) | SE239041.026 | % | 70 - 130% | 92 |
| | BH37(0.6m) | SE239041.027 | % | 70 - 130% | 91 |
| | BH38(0.2m) | SE239041.028 | % | 70 - 130% | 93 |
| | BH39(0.2m) | SE239041.029 | % | 70 - 130% | 94 |
| | BH40(0.2m) | SE239041.030 | % | 70 - 130% | 94 |
| | BH41(0.5m) | SE239041.031 | % | 70 - 130% | 88 |
| | BH42(0.2m) | SE239041.032 | % | 70 - 130% | 93 |
| | BH43(0.2m) | SE239041.033 | % | 70 - 130% | 108 |
| | BH44(0.2m) | SE239041.034 | % | 70 - 130% | 93 |
| | BH45(0.2m) | SE239041.035 | % | 70 - 130% | 85 |
| | BH46(0.2m) | SE239041.036 | % | 70 - 130% | 93 |
| | BH47(0.7m) | SE239041.037 | % | 70 - 130% | 92 |
| | BH48(0.1m) | SE239041.038 | % | 70 - 130% | 95 |
| | BH49(0.5m) | SE239041.039 | % | 70 - 130% | 90 |
| | BH50(0.2m) | SE239041.040 | % | 70 - 130% | 94 |
| | BH51(0.2m) | SE239041.041 | % | 70 - 130% | 95 |
| | BH52(0.7m) | SE239041.042 | % | 70 - 130% | 90 |
| | BH53(0.2m) | SE239041.043 | % | 70 - 130% | 95 |
| | BH54(0.2m) | SE239041.044 | % | 70 - 130% | 90 |
| | BH55(0.7m) | SE239041.045 | % | 70 - 130% | 90 |
| | BH56(0.2m) | SE239041.046 | % | 70 - 130% | 94 |
| | BH57(0.2m) | SE239041.047 | % | 70 - 130% | 94 |
| | BH58(0.2m) | SE239041.048 | % | 70 - 130% | 94 |
| | BH59(0.2m) | SE239041.049 | % | 70 - 130% | 91 |
| | BH60(0.2m) | SE239041.050 | % | 70 - 130% | 78 |
| | BH61(0.5m) | SE239041.051 | % | 70 - 130% | 91 |
| | BH62(0.2m) | SE239041.052 | % | 70 - 130% | 97 |
| | BH63(0.2m) | SE239041.053 | % | 70 - 130% | 94 |
| | BH64(0.2m) | SE239041.054 | % | 70 - 130% | 88 |
| | BH65(0.9m) | SE239041.055 | % | 70 - 130% | 90 |
| | BH66(0.2m) | SE239041.056 | % | 70 - 130% | 92 |
| | BH67(0.2m) | SE239041.057 | % | 70 - 130% | 93 |
| | BH68(0.6m) | SE239041.058 | % | 70 - 130% | 93 |
| | BH69(0.2m) | SE239041.059 | % | 70 - 130% | 104 |
| | BH70(0.2m) | SE239041.060 | % | 70 - 130% | 93 |
| | BH71(0.2m) | SE239041.061 | % | 70 - 130% | 92 |
| | BH72(0.8m) | SE239041.062 | % | 70 - 130% | 92 |
| | BH73(0.2m) | SE239041.063 | % | 70 - 130% | 93 |
| | BH74(0.2m) | SE239041.064 | % | 70 - 130% | 92 |
| | BH75(1.0m) | SE239041.065 | % | 70 - 130% | 92 |

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

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

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| 2-fluorobiphenyl (Surrogate) | BH76(0.2m) | SE239041.066 | % | 70 - 130% | 100 |
| | BH77(0.2m) | SE239041.067 | % | 70 - 130% | 98 |
| | BH78(0.2m) | SE239041.068 | % | 70 - 130% | 94 |
| | BH79(0.2m) | SE239041.069 | % | 70 - 130% | 93 |
| | BH80(0.6m) | SE239041.070 | % | 70 - 130% | 90 |
| | BH81(0.8m) | SE239041.071 | % | 70 - 130% | 91 |
| | BH82(0.2m) | SE239041.072 | % | 70 - 130% | 95 |
| | BH83(0.2m) | SE239041.073 | % | 70 - 130% | 95 |
| | BH84(0.1m) | SE239041.074 | % | 70 - 130% | 99 |
| | BH85(0.2m) | SE239041.075 | % | 70 - 130% | 93 |
| | BH86(0.7m) | SE239041.076 | % | 70 - 130% | 86 |
| | BH87(0.8m) | SE239041.077 | % | 70 - 130% | 95 |
| | BH88(0.2m) | SE239041.078 | % | 70 - 130% | 97 |
| | BH89(0.2m) | SE239041.079 | % | 70 - 130% | 95 |
| | BH90(0.2m) | SE239041.080 | % | 70 - 130% | 95 |
| | BH91(1.0m) | SE239041.081 | % | 70 - 130% | 95 |
| | BH92(0.2m) | SE239041.082 | % | 70 - 130% | 95 |
| | BH93(0.2m) | SE239041.083 | % | 70 - 130% | 95 |
| | BH94(0.2m) | SE239041.084 | % | 70 - 130% | 94 |
| | BH95(0.2m) | SE239041.085 | % | 70 - 130% | 95 |
| | BH96(0.7m) | SE239041.086 | % | 70 - 130% | 89 |
| | BH97(0.2m) | SE239041.087 | % | 70 - 130% | 94 |
| | BH98(0.2m) | SE239041.088 | % | 70 - 130% | 97 |
| | BR1 | SE239041.089 | % | 70 - 130% | 93 |
| | BR2 | SE239041.090 | % | 70 - 130% | 112 |
| | BR3 | SE239041.091 | % | 70 - 130% | 94 |
| | BR4 | SE239041.092 | % | 70 - 130% | 93 |
| | WD1 | SE239041.093 | % | 70 - 130% | 98 |
| | WD2 | SE239041.094 | % | 70 - 130% | 99 |
| d14-p-terphenyl (Surrogate) | BH11(0.2m) | SE239041.001 | % | 70 - 130% | 94 |
| | BH12(0.7m) | SE239041.002 | % | 70 - 130% | 102 |
| | BH13(0.2m) | SE239041.003 | % | 70 - 130% | 98 |
| | BH14(0.2m) | SE239041.004 | % | 70 - 130% | 101 |
| | BH15(0.5m) | SE239041.005 | % | 70 - 130% | 98 |
| | BH16(0.2m) | SE239041.006 | % | 70 - 130% | 70 |
| | BH17(0.7m) | SE239041.007 | % | 70 - 130% | 102 |
| | BH18(0.2m) | SE239041.008 | % | 70 - 130% | 104 |
| | BH19(0.2m) | SE239041.009 | % | 70 - 130% | 97 |
| | BH20(0.2m) | SE239041.010 | % | 70 - 130% | 99 |
| | BH21(0.5m) | SE239041.011 | % | 70 - 130% | 101 |
| | BH22(0.2m) | SE239041.012 | % | 70 - 130% | 100 |
| | BH23(0.2m) | SE239041.013 | % | 70 - 130% | 97 |
| | BH24(0.2m) | SE239041.014 | % | 70 - 130% | 101 |
| | BH25(0.2m) | SE239041.015 | % | 70 - 130% | 81 |
| | BH26(surface sample) | SE239041.016 | % | 70 - 130% | 101 |
| | BH27(0.2m) | SE239041.017 | % | 70 - 130% | 97 |
| | BH28(0.4m) | SE239041.018 | % | 70 - 130% | 100 |
| | BH29(0.5m) | SE239041.019 | % | 70 - 130% | 101 |
| | BH30(0.2m) | SE239041.020 | % | 70 - 130% | 96 |
| | BH31(0.2m) | SE239041.021 | % | 70 - 130% | 95 |
| | BH32(0.2m) | SE239041.022 | % | 70 - 130% | 97 |
| | BH33(0.2m) | SE239041.023 | % | 70 - 130% | 96 |
| | BH34(0.2m) | SE239041.024 | % | 70 - 130% | 98 |
| | BH35(0.2m) | SE239041.025 | % | 70 - 130% | 96 |
| | BH36(0.6m) | SE239041.026 | % | 70 - 130% | 96 |
| | BH37(0.6m) | SE239041.027 | % | 70 - 130% | 94 |
| | BH38(0.2m) | SE239041.028 | % | 70 - 130% | 95 |
| | BH39(0.2m) | SE239041.029 | % | 70 - 130% | 97 |
| | BH40(0.2m) | SE239041.030 | % | 70 - 130% | 97 |
| | BH41(0.5m) | SE239041.031 | % | 70 - 130% | 92 |
| | BH42(0.2m) | SE239041.032 | % | 70 - 130% | 97 |

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

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

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| d14-p-terphenyl (Surrogate) | BH43(0.2m) | SE239041.033 | % | 70 - 130% | 113 |
| | BH44(0.2m) | SE239041.034 | % | 70 - 130% | 97 |
| | BH45(0.2m) | SE239041.035 | % | 70 - 130% | 88 |
| | BH46(0.2m) | SE239041.036 | % | 70 - 130% | 96 |
| | BH47(0.7m) | SE239041.037 | % | 70 - 130% | 95 |
| | BH48(0.1m) | SE239041.038 | % | 70 - 130% | 98 |
| | BH49(0.5m) | SE239041.039 | % | 70 - 130% | 94 |
| | BH50(0.2m) | SE239041.040 | % | 70 - 130% | 96 |
| | BH51(0.2m) | SE239041.041 | % | 70 - 130% | 99 |
| | BH52(0.7m) | SE239041.042 | % | 70 - 130% | 93 |
| | BH53(0.2m) | SE239041.043 | % | 70 - 130% | 98 |
| | BH54(0.2m) | SE239041.044 | % | 70 - 130% | 93 |
| | BH55(0.7m) | SE239041.045 | % | 70 - 130% | 94 |
| | BH56(0.2m) | SE239041.046 | % | 70 - 130% | 98 |
| | BH57(0.2m) | SE239041.047 | % | 70 - 130% | 97 |
| | BH58(0.2m) | SE239041.048 | % | 70 - 130% | 96 |
| | BH59(0.2m) | SE239041.049 | % | 70 - 130% | 94 |
| | BH60(0.2m) | SE239041.050 | % | 70 - 130% | 72 |
| | BH61(0.5m) | SE239041.051 | % | 70 - 130% | 96 |
| | BH62(0.2m) | SE239041.052 | % | 70 - 130% | 100 |
| | BH63(0.2m) | SE239041.053 | % | 70 - 130% | 96 |
| | BH64(0.2m) | SE239041.054 | % | 70 - 130% | 91 |
| | BH65(0.9m) | SE239041.055 | % | 70 - 130% | 94 |
| | BH66(0.2m) | SE239041.056 | % | 70 - 130% | 96 |
| | BH67(0.2m) | SE239041.057 | % | 70 - 130% | 97 |
| | BH68(0.6m) | SE239041.058 | % | 70 - 130% | 96 |
| | BH69(0.2m) | SE239041.059 | % | 70 - 130% | 108 |
| | BH70(0.2m) | SE239041.060 | % | 70 - 130% | 97 |
| | BH71(0.2m) | SE239041.061 | % | 70 - 130% | 95 |
| | BH72(0.8m) | SE239041.062 | % | 70 - 130% | 96 |
| | BH73(0.2m) | SE239041.063 | % | 70 - 130% | 96 |
| | BH74(0.2m) | SE239041.064 | % | 70 - 130% | 97 |
| | BH75(1.0m) | SE239041.065 | % | 70 - 130% | 95 |
| | BH76(0.2m) | SE239041.066 | % | 70 - 130% | 102 |
| | BH77(0.2m) | SE239041.067 | % | 70 - 130% | 101 |
| | BH78(0.2m) | SE239041.068 | % | 70 - 130% | 97 |
| | BH79(0.2m) | SE239041.069 | % | 70 - 130% | 95 |
| | BH80(0.6m) | SE239041.070 | % | 70 - 130% | 92 |
| | BH81(0.8m) | SE239041.071 | % | 70 - 130% | 93 |
| | BH82(0.2m) | SE239041.072 | % | 70 - 130% | 98 |
| | BH83(0.2m) | SE239041.073 | % | 70 - 130% | 97 |
| | BH84(0.1m) | SE239041.074 | % | 70 - 130% | 100 |
| | BH85(0.2m) | SE239041.075 | % | 70 - 130% | 95 |
| | BH86(0.7m) | SE239041.076 | % | 70 - 130% | 90 |
| | BH87(0.8m) | SE239041.077 | % | 70 - 130% | 99 |
| | BH88(0.2m) | SE239041.078 | % | 70 - 130% | 100 |
| | BH89(0.2m) | SE239041.079 | % | 70 - 130% | 100 |
| | BH90(0.2m) | SE239041.080 | % | 70 - 130% | 99 |
| | BH91(1.0m) | SE239041.081 | % | 70 - 130% | 99 |
| | BH92(0.2m) | SE239041.082 | % | 70 - 130% | 100 |
| | BH93(0.2m) | SE239041.083 | % | 70 - 130% | 99 |
| | BH94(0.2m) | SE239041.084 | % | 70 - 130% | 99 |
| | BH95(0.2m) | SE239041.085 | % | 70 - 130% | 99 |
| | BH96(0.7m) | SE239041.086 | % | 70 - 130% | 96 |
| | BH97(0.2m) | SE239041.087 | % | 70 - 130% | 98 |
| | BH98(0.2m) | SE239041.088 | % | 70 - 130% | 100 |
| | BR1 | SE239041.089 | % | 70 - 130% | 97 |
| | BR2 | SE239041.090 | % | 70 - 130% | 120 |
| | BR3 | SE239041.091 | % | 70 - 130% | 98 |
| | BR4 | SE239041.092 | % | 70 - 130% | 98 |
| | WD1 | SE239041.093 | % | 70 - 130% | 102 |

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

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

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| d14-p-terphenyl (Surrogate) | WD2 | SE239041.094 | % | 70 - 130% | 103 |
| d5-nitrobenzene (Surrogate) | BH11(0.2m) | SE239041.001 | % | 70 - 130% | 99 |
| | BH12(0.7m) | SE239041.002 | % | 70 - 130% | 111 |
| | BH13(0.2m) | SE239041.003 | % | 70 - 130% | 109 |
| | BH14(0.2m) | SE239041.004 | % | 70 - 130% | 108 |
| | BH15(0.5m) | SE239041.005 | % | 70 - 130% | 104 |
| | BH16(0.2m) | SE239041.006 | % | 70 - 130% | 75 |
| | BH17(0.7m) | SE239041.007 | % | 70 - 130% | 111 |
| | BH18(0.2m) | SE239041.008 | % | 70 - 130% | 114 |
| | BH19(0.2m) | SE239041.009 | % | 70 - 130% | 102 |
| | BH20(0.2m) | SE239041.010 | % | 70 - 130% | 107 |
| | BH21(0.5m) | SE239041.011 | % | 70 - 130% | 110 |
| | BH22(0.2m) | SE239041.012 | % | 70 - 130% | 110 |
| | BH23(0.2m) | SE239041.013 | % | 70 - 130% | 103 |
| | BH24(0.2m) | SE239041.014 | % | 70 - 130% | 109 |
| | BH25(0.2m) | SE239041.015 | % | 70 - 130% | 88 |
| | BH26(surface sample) | SE239041.016 | % | 70 - 130% | 108 |
| | BH27(0.2m) | SE239041.017 | % | 70 - 130% | 104 |
| | BH28(0.4m) | SE239041.018 | % | 70 - 130% | 108 |
| | BH29(0.5m) | SE239041.019 | % | 70 - 130% | 109 |
| | BH30(0.2m) | SE239041.020 | % | 70 - 130% | 106 |
| | BH31(0.2m) | SE239041.021 | % | 70 - 130% | 106 |
| | BH32(0.2m) | SE239041.022 | % | 70 - 130% | 108 |
| | BH33(0.2m) | SE239041.023 | % | 70 - 130% | 106 |
| | BH34(0.2m) | SE239041.024 | % | 70 - 130% | 108 |
| | BH35(0.2m) | SE239041.025 | % | 70 - 130% | 106 |
| | BH36(0.6m) | SE239041.026 | % | 70 - 130% | 106 |
| | BH37(0.6m) | SE239041.027 | % | 70 - 130% | 104 |
| | BH38(0.2m) | SE239041.028 | % | 70 - 130% | 105 |
| | BH39(0.2m) | SE239041.029 | % | 70 - 130% | 110 |
| | BH40(0.2m) | SE239041.030 | % | 70 - 130% | 108 |
| | BH41(0.5m) | SE239041.031 | % | 70 - 130% | 101 |
| | BH42(0.2m) | SE239041.032 | % | 70 - 130% | 105 |
| | BH43(0.2m) | SE239041.033 | % | 70 - 130% | 121 |
| | BH44(0.2m) | SE239041.034 | % | 70 - 130% | 105 |
| | BH45(0.2m) | SE239041.035 | % | 70 - 130% | 95 |
| | BH46(0.2m) | SE239041.036 | % | 70 - 130% | 104 |
| | BH47(0.7m) | SE239041.037 | % | 70 - 130% | 105 |
| | BH48(0.1m) | SE239041.038 | % | 70 - 130% | 108 |
| | BH49(0.5m) | SE239041.039 | % | 70 - 130% | 101 |
| | BH50(0.2m) | SE239041.040 | % | 70 - 130% | 104 |
| | BH51(0.2m) | SE239041.041 | % | 70 - 130% | 107 |
| | BH52(0.7m) | SE239041.042 | % | 70 - 130% | 104 |
| | BH53(0.2m) | SE239041.043 | % | 70 - 130% | 106 |
| | BH54(0.2m) | SE239041.044 | % | 70 - 130% | 103 |
| | BH55(0.7m) | SE239041.045 | % | 70 - 130% | 102 |
| | BH56(0.2m) | SE239041.046 | % | 70 - 130% | 105 |
| | BH57(0.2m) | SE239041.047 | % | 70 - 130% | 106 |
| | BH58(0.2m) | SE239041.048 | % | 70 - 130% | 106 |
| | BH59(0.2m) | SE239041.049 | % | 70 - 130% | 107 |
| | BH60(0.2m) | SE239041.050 | % | 70 - 130% | 71 |
| | BH61(0.5m) | SE239041.051 | % | 70 - 130% | 107 |
| | BH62(0.2m) | SE239041.052 | % | 70 - 130% | 110 |
| | BH63(0.2m) | SE239041.053 | % | 70 - 130% | 107 |
| | BH64(0.2m) | SE239041.054 | % | 70 - 130% | 101 |
| | BH65(0.9m) | SE239041.055 | % | 70 - 130% | 103 |
| | BH66(0.2m) | SE239041.056 | % | 70 - 130% | 101 |
| | BH67(0.2m) | SE239041.057 | % | 70 - 130% | 106 |
| | BH68(0.6m) | SE239041.058 | % | 70 - 130% | 104 |
| | BH69(0.2m) | SE239041.059 | % | 70 - 130% | 118 |
| | BH70(0.2m) | SE239041.060 | % | 70 - 130% | 109 |

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

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

## PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| d5-nitrobenzene (Surrogate) | BH71(0.2m) | SE239041.061 | % | 70 - 130% | 106 |
| | BH72(0.8m) | SE239041.062 | % | 70 - 130% | 105 |
| | BH73(0.2m) | SE239041.063 | % | 70 - 130% | 108 |
| | BH74(0.2m) | SE239041.064 | % | 70 - 130% | 105 |
| | BH75(1.0m) | SE239041.065 | % | 70 - 130% | 104 |
| | BH76(0.2m) | SE239041.066 | % | 70 - 130% | 113 |
| | BH77(0.2m) | SE239041.067 | % | 70 - 130% | 112 |
| | BH78(0.2m) | SE239041.068 | % | 70 - 130% | 107 |
| | BH79(0.2m) | SE239041.069 | % | 70 - 130% | 109 |
| | BH80(0.6m) | SE239041.070 | % | 70 - 130% | 105 |
| | BH81(0.8m) | SE239041.071 | % | 70 - 130% | 104 |
| | BH82(0.2m) | SE239041.072 | % | 70 - 130% | 108 |
| | BH83(0.2m) | SE239041.073 | % | 70 - 130% | 107 |
| | BH84(0.1m) | SE239041.074 | % | 70 - 130% | 113 |
| | BH85(0.2m) | SE239041.075 | % | 70 - 130% | 107 |
| | BH86(0.7m) | SE239041.076 | % | 70 - 130% | 100 |
| | BH87(0.8m) | SE239041.077 | % | 70 - 130% | 106 |
| | BH88(0.2m) | SE239041.078 | % | 70 - 130% | 108 |
| | BH89(0.2m) | SE239041.079 | % | 70 - 130% | 105 |
| | BH90(0.2m) | SE239041.080 | % | 70 - 130% | 104 |
| | BH91(1.0m) | SE239041.081 | % | 70 - 130% | 105 |
| | BH92(0.2m) | SE239041.082 | % | 70 - 130% | 104 |
| | BH93(0.2m) | SE239041.083 | % | 70 - 130% | 105 |
| | BH94(0.2m) | SE239041.084 | % | 70 - 130% | 106 |
| | BH95(0.2m) | SE239041.085 | % | 70 - 130% | 104 |
| | BH96(0.7m) | SE239041.086 | % | 70 - 130% | 100 |
| | BH97(0.2m) | SE239041.087 | % | 70 - 130% | 102 |
| | BH98(0.2m) | SE239041.088 | % | 70 - 130% | 106 |
| | BR1 | SE239041.089 | % | 70 - 130% | 104 |
| | BR2 | SE239041.090 | % | 70 - 130% | 129 |
| | BR3 | SE239041.091 | % | 70 - 130% | 104 |
| | BR4 | SE239041.092 | % | 70 - 130% | 103 |
| | WD1 | SE239041.093 | % | 70 - 130% | 108 |
| | WD2 | SE239041.094 | % | 70 - 130% | 110 |

## PAH (Polynuclear Aromatic Hydrocarbons) in Water

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| 2-fluorobiphenyl (Surrogate) | WD1 | SE239041.095 | % | 40 - 130% | 26 ④ |
| | WD2 | SE239041.096 | % | 40 - 130% | 54 |
| | RIN | SE239041.097 | % | 40 - 130% | 62 |
| d14-p-terphenyl (Surrogate) | WD1 | SE239041.095 | % | 40 - 130% | 42 |
| | WD2 | SE239041.096 | % | 40 - 130% | 78 |
| | RIN | SE239041.097 | % | 40 - 130% | 76 |
| d5-nitrobenzene (Surrogate) | WD1 | SE239041.095 | % | 40 - 130% | 24 ④ |
| | WD2 | SE239041.096 | % | 40 - 130% | 46 |
| | RIN | SE239041.097 | % | 40 - 130% | 56 |

## PCBs in Soil

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| TCMX (Surrogate) | BH11(0.2m) | SE239041.001 | % | 60 - 130% | 109 |
| | BH12(0.7m) | SE239041.002 | % | 60 - 130% | 108 |
| | BH13(0.2m) | SE239041.003 | % | 60 - 130% | 108 |
| | BH14(0.2m) | SE239041.004 | % | 60 - 130% | 110 |
| | BH15(0.5m) | SE239041.005 | % | 60 - 130% | 103 |
| | BH16(0.2m) | SE239041.006 | % | 60 - 130% | 113 |
| | BH17(0.7m) | SE239041.007 | % | 60 - 130% | 108 |
| | BH18(0.2m) | SE239041.008 | % | 60 - 130% | 109 |
| | BH19(0.2m) | SE239041.009 | % | 60 - 130% | 101 |
| | BH20(0.2m) | SE239041.010 | % | 60 - 130% | 102 |
| | BH21(0.5m) | SE239041.011 | % | 60 - 130% | 97 |
| | BH22(0.2m) | SE239041.012 | % | 60 - 130% | 96 |
| | BH23(0.2m) | SE239041.013 | % | 60 - 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 identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| TCMX (Surrogate) | BH24(0.2m) | SE239041.014 | % | 60 - 130% | 90 |
| | BH25(0.2m) | SE239041.015 | % | 60 - 130% | 83 |
| | BH26(surface sample) | SE239041.016 | % | 60 - 130% | 90 |
| | BH27(0.2m) | SE239041.017 | % | 60 - 130% | 85 |
| | BH28(0.4m) | SE239041.018 | % | 60 - 130% | 92 |
| | BH29(0.5m) | SE239041.019 | % | 60 - 130% | 93 |
| | BH30(0.2m) | SE239041.020 | % | 60 - 130% | 108 |
| | BH31(0.2m) | SE239041.021 | % | 60 - 130% | 113 |
| | BH32(0.2m) | SE239041.022 | % | 60 - 130% | 115 |
| | BH33(0.2m) | SE239041.023 | % | 60 - 130% | 110 |
| | BH34(0.2m) | SE239041.024 | % | 60 - 130% | 119 |
| | BH35(0.2m) | SE239041.025 | % | 60 - 130% | 128 |
| | BH36(0.6m) | SE239041.026 | % | 60 - 130% | 107 |
| | BH37(0.6m) | SE239041.027 | % | 60 - 130% | 107 |
| | BH38(0.2m) | SE239041.028 | % | 60 - 130% | 119 |
| | BH39(0.2m) | SE239041.029 | % | 60 - 130% | 109 |
| | BH40(0.2m) | SE239041.030 | % | 60 - 130% | 109 |
| | BH41(0.5m) | SE239041.031 | % | 60 - 130% | 109 |
| | BH42(0.2m) | SE239041.032 | % | 60 - 130% | 115 |
| | BH43(0.2m) | SE239041.033 | % | 60 - 130% | 109 |
| | BH44(0.2m) | SE239041.034 | % | 60 - 130% | 109 |
| | BH45(0.2m) | SE239041.035 | % | 60 - 130% | 108 |
| | BH46(0.2m) | SE239041.036 | % | 60 - 130% | 111 |
| | BH47(0.7m) | SE239041.037 | % | 60 - 130% | 102 |
| | BH48(0.1m) | SE239041.038 | % | 60 - 130% | 109 |
| | BH49(0.5m) | SE239041.039 | % | 60 - 130% | 99 |
| | BH50(0.2m) | SE239041.040 | % | 60 - 130% | 108 |
| | BH51(0.2m) | SE239041.041 | % | 60 - 130% | 112 |
| | BH52(0.7m) | SE239041.042 | % | 60 - 130% | 102 |
| | BH53(0.2m) | SE239041.043 | % | 60 - 130% | 109 |
| | BH54(0.2m) | SE239041.044 | % | 60 - 130% | 103 |
| | BH55(0.7m) | SE239041.045 | % | 60 - 130% | 101 |
| | BH56(0.2m) | SE239041.046 | % | 60 - 130% | 108 |
| | BH57(0.2m) | SE239041.047 | % | 60 - 130% | 110 |
| | BH58(0.2m) | SE239041.048 | % | 60 - 130% | 110 |
| | BH59(0.2m) | SE239041.049 | % | 60 - 130% | 104 |
| | BH60(0.2m) | SE239041.050 | % | 60 - 130% | 105 |
| | BH61(0.5m) | SE239041.051 | % | 60 - 130% | 104 |
| | BH62(0.2m) | SE239041.052 | % | 60 - 130% | 106 |
| | BH63(0.2m) | SE239041.053 | % | 60 - 130% | 112 |
| | BH64(0.2m) | SE239041.054 | % | 60 - 130% | 99 |
| | BH65(0.9m) | SE239041.055 | % | 60 - 130% | 104 |
| | BH66(0.2m) | SE239041.056 | % | 60 - 130% | 109 |
| | BH67(0.2m) | SE239041.057 | % | 60 - 130% | 105 |
| | BH68(0.6m) | SE239041.058 | % | 60 - 130% | 106 |
| | BH69(0.2m) | SE239041.059 | % | 60 - 130% | 116 |
| | BH70(0.2m) | SE239041.060 | % | 60 - 130% | 113 |
| | BH71(0.2m) | SE239041.061 | % | 60 - 130% | 111 |
| | BH72(0.8m) | SE239041.062 | % | 60 - 130% | 109 |
| | BH73(0.2m) | SE239041.063 | % | 60 - 130% | 118 |
| | BH74(0.2m) | SE239041.064 | % | 60 - 130% | 107 |
| | BH75(1.0m) | SE239041.065 | % | 60 - 130% | 105 |
| | BH76(0.2m) | SE239041.066 | % | 60 - 130% | 112 |
| | BH77(0.2m) | SE239041.067 | % | 60 - 130% | 108 |
| | BH78(0.2m) | SE239041.068 | % | 60 - 130% | 112 |
| | BH79(0.2m) | SE239041.069 | % | 60 - 130% | 110 |
| | BH80(0.6m) | SE239041.070 | % | 60 - 130% | 111 |
| | BH81(0.8m) | SE239041.071 | % | 60 - 130% | 107 |
| | BH82(0.2m) | SE239041.072 | % | 60 - 130% | 109 |
| | BH83(0.2m) | SE239041.073 | % | 60 - 130% | 120 |
| | BH84(0.1m) | SE239041.074 | % | 60 - 130% | 108 |

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

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

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| TCMX (Surrogate) | BH85(0.2m) | SE239041.075 | % | 60 - 130% | 106 |
| | BH86(0.7m) | SE239041.076 | % | 60 - 130% | 106 |
| | BH87(0.8m) | SE239041.077 | % | 60 - 130% | 113 |
| | BH88(0.2m) | SE239041.078 | % | 60 - 130% | 113 |
| | BH89(0.2m) | SE239041.079 | % | 60 - 130% | 111 |
| | BH90(0.2m) | SE239041.080 | % | 60 - 130% | 111 |
| | BH91(1.0m) | SE239041.081 | % | 60 - 130% | 106 |
| | BH92(0.2m) | SE239041.082 | % | 60 - 130% | 114 |
| | BH93(0.2m) | SE239041.083 | % | 60 - 130% | 119 |
| | BH94(0.2m) | SE239041.084 | % | 60 - 130% | 111 |
| | BH95(0.2m) | SE239041.085 | % | 60 - 130% | 112 |
| | BH96(0.7m) | SE239041.086 | % | 60 - 130% | 112 |
| | BH97(0.2m) | SE239041.087 | % | 60 - 130% | 120 |
| | BH98(0.2m) | SE239041.088 | % | 60 - 130% | 118 |
| | BR1 | SE239041.089 | % | 60 - 130% | 117 |
| | BR2 | SE239041.090 | % | 60 - 130% | 116 |
| | BR3 | SE239041.091 | % | 60 - 130% | 118 |
| | BR4 | SE239041.092 | % | 60 - 130% | 113 |
| | WD1 | SE239041.093 | % | 60 - 130% | 122 |
| | WD2 | SE239041.094 | % | 60 - 130% | 112 |

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| TCMX (Surrogate) | WD1 | SE239041.095 | % | 40 - 130% | 29 ⓓ |
| | WD2 | SE239041.096 | % | 40 - 130% | 69 |
| | RIN | SE239041.097 | % | 40 - 130% | 60 |

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| Bromofluorobenzene (Surrogate) | BH11(0.2m) | SE239041.001 | % | 60 - 130% | 83 |
| | BH12(0.7m) | SE239041.002 | % | 60 - 130% | 96 |
| | BH13(0.2m) | SE239041.003 | % | 60 - 130% | 103 |
| | BH14(0.2m) | SE239041.004 | % | 60 - 130% | 86 |
| | BH15(0.5m) | SE239041.005 | % | 60 - 130% | 101 |
| | BH16(0.2m) | SE239041.006 | % | 60 - 130% | 97 |
| | BH17(0.7m) | SE239041.007 | % | 60 - 130% | 94 |
| | BH18(0.2m) | SE239041.008 | % | 60 - 130% | 102 |
| | BH19(0.2m) | SE239041.009 | % | 60 - 130% | 95 |
| | BH20(0.2m) | SE239041.010 | % | 60 - 130% | 99 |
| | BH21(0.5m) | SE239041.011 | % | 60 - 130% | 96 |
| | BH22(0.2m) | SE239041.012 | % | 60 - 130% | 92 |
| | BH23(0.2m) | SE239041.013 | % | 60 - 130% | 92 |
| | BH24(0.2m) | SE239041.014 | % | 60 - 130% | 91 |
| | BH25(0.2m) | SE239041.015 | % | 60 - 130% | 83 |
| | BH26(surface sample) | SE239041.016 | % | 60 - 130% | 91 |
| | BH27(0.2m) | SE239041.017 | % | 60 - 130% | 91 |
| | BH28(0.4m) | SE239041.018 | % | 60 - 130% | 96 |
| | BH29(0.5m) | SE239041.019 | % | 60 - 130% | 98 |
| | BH30(0.2m) | SE239041.020 | % | 60 - 130% | 79 |
| | BH31(0.2m) | SE239041.021 | % | 60 - 130% | 79 |
| | BH32(0.2m) | SE239041.022 | % | 60 - 130% | 78 |
| | BH33(0.2m) | SE239041.023 | % | 60 - 130% | 77 |
| | BH34(0.2m) | SE239041.024 | % | 60 - 130% | 75 |
| | BH35(0.2m) | SE239041.025 | % | 60 - 130% | 77 |
| | BH36(0.6m) | SE239041.026 | % | 60 - 130% | 80 |
| | BH37(0.6m) | SE239041.027 | % | 60 - 130% | 81 |
| | BH38(0.2m) | SE239041.028 | % | 60 - 130% | 74 |
| | BH39(0.2m) | SE239041.029 | % | 60 - 130% | 78 |
| | BH40(0.2m) | SE239041.030 | % | 60 - 130% | 70 |
| | BH41(0.5m) | SE239041.031 | % | 60 - 130% | 78 |
| | BH42(0.2m) | SE239041.032 | % | 60 - 130% | 78 |
| | BH43(0.2m) | SE239041.033 | % | 60 - 130% | 75 |

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

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

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| Bromofluorobenzene (Surrogate) | BH44(0.2m) | SE239041.034 | % | 60 - 130% | 81 |
| | BH45(0.2m) | SE239041.035 | % | 60 - 130% | 78 |
| | BH46(0.2m) | SE239041.036 | % | 60 - 130% | 75 |
| | BH47(0.7m) | SE239041.037 | % | 60 - 130% | 79 |
| | BH48(0.1m) | SE239041.038 | % | 60 - 130% | 76 |
| | BH49(0.5m) | SE239041.039 | % | 60 - 130% | 97 |
| | BH50(0.2m) | SE239041.040 | % | 60 - 130% | 98 |
| | BH51(0.2m) | SE239041.041 | % | 60 - 130% | 89 |
| | BH52(0.7m) | SE239041.042 | % | 60 - 130% | 89 |
| | BH53(0.2m) | SE239041.043 | % | 60 - 130% | 87 |
| | BH54(0.2m) | SE239041.044 | % | 60 - 130% | 96 |
| | BH55(0.7m) | SE239041.045 | % | 60 - 130% | 93 |
| | BH56(0.2m) | SE239041.046 | % | 60 - 130% | 90 |
| | BH57(0.2m) | SE239041.047 | % | 60 - 130% | 91 |
| | BH58(0.2m) | SE239041.048 | % | 60 - 130% | 92 |
| | BH59(0.2m) | SE239041.049 | % | 60 - 130% | 86 |
| | BH60(0.2m) | SE239041.050 | % | 60 - 130% | 98 |
| | BH61(0.5m) | SE239041.051 | % | 60 - 130% | 91 |
| | BH62(0.2m) | SE239041.052 | % | 60 - 130% | 97 |
| | BH63(0.2m) | SE239041.053 | % | 60 - 130% | 78 |
| | BH64(0.2m) | SE239041.054 | % | 60 - 130% | 92 |
| | BH65(0.9m) | SE239041.055 | % | 60 - 130% | 99 |
| | BH66(0.2m) | SE239041.056 | % | 60 - 130% | 92 |
| | BH67(0.2m) | SE239041.057 | % | 60 - 130% | 92 |
| | BH68(0.6m) | SE239041.058 | % | 60 - 130% | 85 |
| | BH69(0.2m) | SE239041.059 | % | 60 - 130% | 79 |
| | BH70(0.2m) | SE239041.060 | % | 60 - 130% | 79 |
| | BH71(0.2m) | SE239041.061 | % | 60 - 130% | 75 |
| | BH72(0.8m) | SE239041.062 | % | 60 - 130% | 74 |
| | BH73(0.2m) | SE239041.063 | % | 60 - 130% | 75 |
| | BH74(0.2m) | SE239041.064 | % | 60 - 130% | 77 |
| | BH75(1.0m) | SE239041.065 | % | 60 - 130% | 80 |
| | BH76(0.2m) | SE239041.066 | % | 60 - 130% | 76 |
| | BH77(0.2m) | SE239041.067 | % | 60 - 130% | 80 |
| | BH78(0.2m) | SE239041.068 | % | 60 - 130% | 80 |
| | BH79(0.2m) | SE239041.069 | % | 60 - 130% | 78 |
| | BH80(0.6m) | SE239041.070 | % | 60 - 130% | 76 |
| | BH81(0.8m) | SE239041.071 | % | 60 - 130% | 76 |
| | BH82(0.2m) | SE239041.072 | % | 60 - 130% | 73 |
| | BH83(0.2m) | SE239041.073 | % | 60 - 130% | 78 |
| | BH84(0.1m) | SE239041.074 | % | 60 - 130% | 78 |
| | BH85(0.2m) | SE239041.075 | % | 60 - 130% | 81 |
| | BH86(0.7m) | SE239041.076 | % | 60 - 130% | 83 |
| | BH87(0.8m) | SE239041.077 | % | 60 - 130% | 101 |
| | BH88(0.2m) | SE239041.078 | % | 60 - 130% | 95 |
| | BH89(0.2m) | SE239041.079 | % | 60 - 130% | 108 |
| | BH90(0.2m) | SE239041.080 | % | 60 - 130% | 103 |
| | BH91(1.0m) | SE239041.081 | % | 60 - 130% | 107 |
| | BH92(0.2m) | SE239041.082 | % | 60 - 130% | 93 |
| | BH93(0.2m) | SE239041.083 | % | 60 - 130% | 99 |
| | BH94(0.2m) | SE239041.084 | % | 60 - 130% | 99 |
| | BH95(0.2m) | SE239041.085 | % | 60 - 130% | 103 |
| | BH96(0.7m) | SE239041.086 | % | 60 - 130% | 101 |
| | BH97(0.2m) | SE239041.087 | % | 60 - 130% | 94 |
| | BH98(0.2m) | SE239041.088 | % | 60 - 130% | 96 |
| | BR1 | SE239041.089 | % | 60 - 130% | 99 |
| | BR2 | SE239041.090 | % | 60 - 130% | 93 |
| | BR3 | SE239041.091 | % | 60 - 130% | 96 |
| | BR4 | SE239041.092 | % | 60 - 130% | 94 |
| | WD1 | SE239041.093 | % | 60 - 130% | 79 |
| | WD2 | SE239041.094 | % | 60 - 130% | 85 |

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

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

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| Bromofluorobenzene (Surrogate) | TRIP BLANK | SE239041.098 | % | 60 - 130% | 97 |
| | TRP SPIKE | SE239041.099 | % | 60 - 130% | 85 |
| d4-1,2-dichloroethane (Surrogate) | BH11(0.2m) | SE239041.001 | % | 60 - 130% | 100 |
| | BH12(0.7m) | SE239041.002 | % | 60 - 130% | 116 |
| | BH13(0.2m) | SE239041.003 | % | 60 - 130% | 123 |
| | BH14(0.2m) | SE239041.004 | % | 60 - 130% | 111 |
| | BH15(0.5m) | SE239041.005 | % | 60 - 130% | 120 |
| | BH16(0.2m) | SE239041.006 | % | 60 - 130% | 120 |
| | BH17(0.7m) | SE239041.007 | % | 60 - 130% | 118 |
| | BH18(0.2m) | SE239041.008 | % | 60 - 130% | 129 |
| | BH19(0.2m) | SE239041.009 | % | 60 - 130% | 118 |
| | BH20(0.2m) | SE239041.010 | % | 60 - 130% | 126 |
| | BH21(0.5m) | SE239041.011 | % | 60 - 130% | 123 |
| | BH22(0.2m) | SE239041.012 | % | 60 - 130% | 121 |
| | BH23(0.2m) | SE239041.013 | % | 60 - 130% | 122 |
| | BH24(0.2m) | SE239041.014 | % | 60 - 130% | 120 |
| | BH25(0.2m) | SE239041.015 | % | 60 - 130% | 110 |
| | BH26(surface sample) | SE239041.016 | % | 60 - 130% | 121 |
| | BH27(0.2m) | SE239041.017 | % | 60 - 130% | 120 |
| | BH28(0.4m) | SE239041.018 | % | 60 - 130% | 135 ① |
| | BH29(0.5m) | SE239041.019 | % | 60 - 130% | 129 |
| | BH30(0.2m) | SE239041.020 | % | 60 - 130% | 86 |
| | BH31(0.2m) | SE239041.021 | % | 60 - 130% | 86 |
| | BH32(0.2m) | SE239041.022 | % | 60 - 130% | 86 |
| | BH33(0.2m) | SE239041.023 | % | 60 - 130% | 86 |
| | BH34(0.2m) | SE239041.024 | % | 60 - 130% | 85 |
| | BH35(0.2m) | SE239041.025 | % | 60 - 130% | 87 |
| | BH36(0.6m) | SE239041.026 | % | 60 - 130% | 91 |
| | BH37(0.6m) | SE239041.027 | % | 60 - 130% | 90 |
| | BH38(0.2m) | SE239041.028 | % | 60 - 130% | 85 |
| | BH39(0.2m) | SE239041.029 | % | 60 - 130% | 88 |
| | BH40(0.2m) | SE239041.030 | % | 60 - 130% | 79 |
| | BH41(0.5m) | SE239041.031 | % | 60 - 130% | 87 |
| | BH42(0.2m) | SE239041.032 | % | 60 - 130% | 91 |
| | BH43(0.2m) | SE239041.033 | % | 60 - 130% | 85 |
| | BH44(0.2m) | SE239041.034 | % | 60 - 130% | 90 |
| | BH45(0.2m) | SE239041.035 | % | 60 - 130% | 90 |
| | BH46(0.2m) | SE239041.036 | % | 60 - 130% | 87 |
| | BH47(0.7m) | SE239041.037 | % | 60 - 130% | 88 |
| | BH48(0.1m) | SE239041.038 | % | 60 - 130% | 86 |
| | BH49(0.5m) | SE239041.039 | % | 60 - 130% | 96 |
| | BH50(0.2m) | SE239041.040 | % | 60 - 130% | 102 |
| | BH51(0.2m) | SE239041.041 | % | 60 - 130% | 92 |
| | BH52(0.7m) | SE239041.042 | % | 60 - 130% | 89 |
| | BH53(0.2m) | SE239041.043 | % | 60 - 130% | 88 |
| | BH54(0.2m) | SE239041.044 | % | 60 - 130% | 97 |
| | BH55(0.7m) | SE239041.045 | % | 60 - 130% | 93 |
| | BH56(0.2m) | SE239041.046 | % | 60 - 130% | 91 |
| | BH57(0.2m) | SE239041.047 | % | 60 - 130% | 95 |
| | BH58(0.2m) | SE239041.048 | % | 60 - 130% | 94 |
| | BH59(0.2m) | SE239041.049 | % | 60 - 130% | 87 |
| | BH60(0.2m) | SE239041.050 | % | 60 - 130% | 98 |
| | BH61(0.5m) | SE239041.051 | % | 60 - 130% | 91 |
| | BH62(0.2m) | SE239041.052 | % | 60 - 130% | 98 |
| | BH63(0.2m) | SE239041.053 | % | 60 - 130% | 80 |
| | BH64(0.2m) | SE239041.054 | % | 60 - 130% | 97 |
| | BH65(0.9m) | SE239041.055 | % | 60 - 130% | 97 |
| | BH66(0.2m) | SE239041.056 | % | 60 - 130% | 93 |
| | BH67(0.2m) | SE239041.057 | % | 60 - 130% | 83 |
| | BH68(0.6m) | SE239041.058 | % | 60 - 130% | 81 |
| | BH69(0.2m) | SE239041.059 | % | 60 - 130% | 80 |

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

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

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| d4-1,2-dichloroethane (Surrogate) | BH70(0.2m) | SE239041.060 | % | 60 - 130% | 81 |
| | BH71(0.2m) | SE239041.061 | % | 60 - 130% | 79 |
| | BH72(0.8m) | SE239041.062 | % | 60 - 130% | 80 |
| | BH73(0.2m) | SE239041.063 | % | 60 - 130% | 76 |
| | BH74(0.2m) | SE239041.064 | % | 60 - 130% | 80 |
| | BH75(1.0m) | SE239041.065 | % | 60 - 130% | 80 |
| | BH76(0.2m) | SE239041.066 | % | 60 - 130% | 73 |
| | BH77(0.2m) | SE239041.067 | % | 60 - 130% | 76 |
| | BH78(0.2m) | SE239041.068 | % | 60 - 130% | 76 |
| | BH79(0.2m) | SE239041.069 | % | 60 - 130% | 77 |
| | BH80(0.6m) | SE239041.070 | % | 60 - 130% | 72 |
| | BH81(0.8m) | SE239041.071 | % | 60 - 130% | 73 |
| | BH82(0.2m) | SE239041.072 | % | 60 - 130% | 79 |
| | BH83(0.2m) | SE239041.073 | % | 60 - 130% | 76 |
| | BH84(0.1m) | SE239041.074 | % | 60 - 130% | 79 |
| | BH85(0.2m) | SE239041.075 | % | 60 - 130% | 79 |
| | BH86(0.7m) | SE239041.076 | % | 60 - 130% | 81 |
| | BH87(0.8m) | SE239041.077 | % | 60 - 130% | 98 |
| | BH88(0.2m) | SE239041.078 | % | 60 - 130% | 100 |
| | BH89(0.2m) | SE239041.079 | % | 60 - 130% | 103 |
| | BH90(0.2m) | SE239041.080 | % | 60 - 130% | 107 |
| | BH91(1.0m) | SE239041.081 | % | 60 - 130% | 110 |
| | BH92(0.2m) | SE239041.082 | % | 60 - 130% | 96 |
| | BH93(0.2m) | SE239041.083 | % | 60 - 130% | 100 |
| | BH94(0.2m) | SE239041.084 | % | 60 - 130% | 98 |
| | BH95(0.2m) | SE239041.085 | % | 60 - 130% | 102 |
| | BH96(0.7m) | SE239041.086 | % | 60 - 130% | 101 |
| | BH97(0.2m) | SE239041.087 | % | 60 - 130% | 100 |
| | BH98(0.2m) | SE239041.088 | % | 60 - 130% | 98 |
| | BR1 | SE239041.089 | % | 60 - 130% | 102 |
| | BR2 | SE239041.090 | % | 60 - 130% | 95 |
| | BR3 | SE239041.091 | % | 60 - 130% | 98 |
| | BR4 | SE239041.092 | % | 60 - 130% | 96 |
| | WD1 | SE239041.093 | % | 60 - 130% | 83 |
| | WD2 | SE239041.094 | % | 60 - 130% | 87 |
| | TRIP BLANK | SE239041.098 | % | 60 - 130% | 101 |
| | TRP SPIKE | SE239041.099 | % | 60 - 130% | 113 |
| d8-toluene (Surrogate) | BH11(0.2m) | SE239041.001 | % | 60 - 130% | 75 |
| | BH12(0.7m) | SE239041.002 | % | 60 - 130% | 92 |
| | BH13(0.2m) | SE239041.003 | % | 60 - 130% | 98 |
| | BH14(0.2m) | SE239041.004 | % | 60 - 130% | 89 |
| | BH15(0.5m) | SE239041.005 | % | 60 - 130% | 97 |
| | BH16(0.2m) | SE239041.006 | % | 60 - 130% | 92 |
| | BH17(0.7m) | SE239041.007 | % | 60 - 130% | 90 |
| | BH18(0.2m) | SE239041.008 | % | 60 - 130% | 97 |
| | BH19(0.2m) | SE239041.009 | % | 60 - 130% | 96 |
| | BH20(0.2m) | SE239041.010 | % | 60 - 130% | 98 |
| | BH21(0.5m) | SE239041.011 | % | 60 - 130% | 96 |
| | BH22(0.2m) | SE239041.012 | % | 60 - 130% | 90 |
| | BH23(0.2m) | SE239041.013 | % | 60 - 130% | 87 |
| | BH24(0.2m) | SE239041.014 | % | 60 - 130% | 89 |
| | BH25(0.2m) | SE239041.015 | % | 60 - 130% | 79 |
| | BH26(surface sample) | SE239041.016 | % | 60 - 130% | 88 |
| | BH27(0.2m) | SE239041.017 | % | 60 - 130% | 89 |
| | BH28(0.4m) | SE239041.018 | % | 60 - 130% | 94 |
| | BH29(0.5m) | SE239041.019 | % | 60 - 130% | 96 |
| | BH30(0.2m) | SE239041.020 | % | 60 - 130% | 89 |
| | BH31(0.2m) | SE239041.021 | % | 60 - 130% | 89 |
| | BH32(0.2m) | SE239041.022 | % | 60 - 130% | 88 |
| | BH33(0.2m) | SE239041.023 | % | 60 - 130% | 88 |
| | BH34(0.2m) | SE239041.024 | % | 60 - 130% | 86 |

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

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

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| d8-toluene (Surrogate) | BH35(0.2m) | SE239041.025 | % | 60 - 130% | 87 |
| | BH36(0.6m) | SE239041.026 | % | 60 - 130% | 91 |
| | BH37(0.6m) | SE239041.027 | % | 60 - 130% | 92 |
| | BH38(0.2m) | SE239041.028 | % | 60 - 130% | 85 |
| | BH39(0.2m) | SE239041.029 | % | 60 - 130% | 90 |
| | BH40(0.2m) | SE239041.030 | % | 60 - 130% | 80 |
| | BH41(0.5m) | SE239041.031 | % | 60 - 130% | 89 |
| | BH42(0.2m) | SE239041.032 | % | 60 - 130% | 91 |
| | BH43(0.2m) | SE239041.033 | % | 60 - 130% | 85 |
| | BH44(0.2m) | SE239041.034 | % | 60 - 130% | 90 |
| | BH45(0.2m) | SE239041.035 | % | 60 - 130% | 90 |
| | BH46(0.2m) | SE239041.036 | % | 60 - 130% | 87 |
| | BH47(0.7m) | SE239041.037 | % | 60 - 130% | 92 |
| | BH48(0.1m) | SE239041.038 | % | 60 - 130% | 88 |
| | BH49(0.5m) | SE239041.039 | % | 60 - 130% | 95 |
| | BH50(0.2m) | SE239041.040 | % | 60 - 130% | 99 |
| | BH51(0.2m) | SE239041.041 | % | 60 - 130% | 91 |
| | BH52(0.7m) | SE239041.042 | % | 60 - 130% | 88 |
| | BH53(0.2m) | SE239041.043 | % | 60 - 130% | 87 |
| | BH54(0.2m) | SE239041.044 | % | 60 - 130% | 97 |
| | BH55(0.7m) | SE239041.045 | % | 60 - 130% | 93 |
| | BH56(0.2m) | SE239041.046 | % | 60 - 130% | 90 |
| | BH57(0.2m) | SE239041.047 | % | 60 - 130% | 93 |
| | BH58(0.2m) | SE239041.048 | % | 60 - 130% | 94 |
| | BH59(0.2m) | SE239041.049 | % | 60 - 130% | 85 |
| | BH60(0.2m) | SE239041.050 | % | 60 - 130% | 98 |
| | BH61(0.5m) | SE239041.051 | % | 60 - 130% | 89 |
| | BH62(0.2m) | SE239041.052 | % | 60 - 130% | 99 |
| | BH63(0.2m) | SE239041.053 | % | 60 - 130% | 78 |
| | BH64(0.2m) | SE239041.054 | % | 60 - 130% | 119 |
| | BH65(0.9m) | SE239041.055 | % | 60 - 130% | 96 |
| | BH66(0.2m) | SE239041.056 | % | 60 - 130% | 92 |
| | BH67(0.2m) | SE239041.057 | % | 60 - 130% | 110 |
| | BH68(0.6m) | SE239041.058 | % | 60 - 130% | 79 |
| | BH69(0.2m) | SE239041.059 | % | 60 - 130% | 76 |
| | BH70(0.2m) | SE239041.060 | % | 60 - 130% | 77 |
| | BH71(0.2m) | SE239041.061 | % | 60 - 130% | 78 |
| | BH72(0.8m) | SE239041.062 | % | 60 - 130% | 79 |
| | BH73(0.2m) | SE239041.063 | % | 60 - 130% | 73 |
| | BH74(0.2m) | SE239041.064 | % | 60 - 130% | 74 |
| | BH75(1.0m) | SE239041.065 | % | 60 - 130% | 78 |
| | BH76(0.2m) | SE239041.066 | % | 60 - 130% | 70 |
| | BH77(0.2m) | SE239041.067 | % | 60 - 130% | 74 |
| | BH78(0.2m) | SE239041.068 | % | 60 - 130% | 87 |
| | BH79(0.2m) | SE239041.069 | % | 60 - 130% | 78 |
| | BH80(0.6m) | SE239041.070 | % | 60 - 130% | 73 |
| | BH81(0.8m) | SE239041.071 | % | 60 - 130% | 74 |
| | BH82(0.2m) | SE239041.072 | % | 60 - 130% | 78 |
| | BH83(0.2m) | SE239041.073 | % | 60 - 130% | 74 |
| | BH84(0.1m) | SE239041.074 | % | 60 - 130% | 77 |
| | BH85(0.2m) | SE239041.075 | % | 60 - 130% | 81 |
| | BH86(0.7m) | SE239041.076 | % | 60 - 130% | 84 |
| | BH87(0.8m) | SE239041.077 | % | 60 - 130% | 97 |
| | BH88(0.2m) | SE239041.078 | % | 60 - 130% | 100 |
| | BH89(0.2m) | SE239041.079 | % | 60 - 130% | 101 |
| | BH90(0.2m) | SE239041.080 | % | 60 - 130% | 105 |
| | BH91(1.0m) | SE239041.081 | % | 60 - 130% | 107 |
| | BH92(0.2m) | SE239041.082 | % | 60 - 130% | 94 |
| | BH93(0.2m) | SE239041.083 | % | 60 - 130% | 98 |
| | BH94(0.2m) | SE239041.084 | % | 60 - 130% | 98 |
| | BH95(0.2m) | SE239041.085 | % | 60 - 130% | 101 |

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

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

## VOC's in Soil (continued)

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| d8-toluene (Surrogate) | BH96(0.7m) | SE239041.086 | % | 60 - 130% | 101 |
| | BH97(0.2m) | SE239041.087 | % | 60 - 130% | 127 |
| | BH98(0.2m) | SE239041.088 | % | 60 - 130% | 97 |
| | BR1 | SE239041.089 | % | 60 - 130% | 100 |
| | BR2 | SE239041.090 | % | 60 - 130% | 93 |
| | BR3 | SE239041.091 | % | 60 - 130% | 97 |
| | BR4 | SE239041.092 | % | 60 - 130% | 95 |
| | WD1 | SE239041.093 | % | 60 - 130% | 79 |
| | WD2 | SE239041.094 | % | 60 - 130% | 84 |
| | TRIP BLANK | SE239041.098 | % | 60 - 130% | 99 |
| | TRP SPIKE | SE239041.099 | % | 60 - 130% | 109 |

## VOCs in Water

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| Bromofluorobenzene (Surrogate) | WD1 | SE239041.095 | % | 40 - 130% | 103 |
| | WD2 | SE239041.096 | % | 40 - 130% | 102 |
| | RIN | SE239041.097 | % | 40 - 130% | 101 |
| d4-1,2-dichloroethane (Surrogate) | WD1 | SE239041.095 | % | 40 - 130% | 82 |
| | WD2 | SE239041.096 | % | 40 - 130% | 88 |
| | RIN | SE239041.097 | % | 40 - 130% | 88 |
| d8-toluene (Surrogate) | WD1 | SE239041.095 | % | 40 - 130% | 104 |
| | WD2 | SE239041.096 | % | 40 - 130% | 113 |
| | RIN | SE239041.097 | % | 40 - 130% | 108 |

## Volatile Petroleum Hydrocarbons in Soil

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| Bromofluorobenzene (Surrogate) | BH11(0.2m) | SE239041.001 | % | 60 - 130% | 83 |
| | BH12(0.7m) | SE239041.002 | % | 60 - 130% | 96 |
| | BH13(0.2m) | SE239041.003 | % | 60 - 130% | 103 |
| | BH14(0.2m) | SE239041.004 | % | 60 - 130% | 86 |
| | BH15(0.5m) | SE239041.005 | % | 60 - 130% | 101 |
| | BH16(0.2m) | SE239041.006 | % | 60 - 130% | 97 |
| | BH17(0.7m) | SE239041.007 | % | 60 - 130% | 94 |
| | BH18(0.2m) | SE239041.008 | % | 60 - 130% | 102 |
| | BH19(0.2m) | SE239041.009 | % | 60 - 130% | 95 |
| | BH20(0.2m) | SE239041.010 | % | 60 - 130% | 99 |
| | BH21(0.5m) | SE239041.011 | % | 60 - 130% | 96 |
| | BH22(0.2m) | SE239041.012 | % | 60 - 130% | 92 |
| | BH23(0.2m) | SE239041.013 | % | 60 - 130% | 92 |
| | BH24(0.2m) | SE239041.014 | % | 60 - 130% | 91 |
| | BH25(0.2m) | SE239041.015 | % | 60 - 130% | 83 |
| | BH26(surface sample) | SE239041.016 | % | 60 - 130% | 91 |
| | BH27(0.2m) | SE239041.017 | % | 60 - 130% | 91 |
| | BH28(0.4m) | SE239041.018 | % | 60 - 130% | 96 |
| | BH29(0.5m) | SE239041.019 | % | 60 - 130% | 98 |
| | BH30(0.2m) | SE239041.020 | % | 60 - 130% | 79 |
| | BH31(0.2m) | SE239041.021 | % | 60 - 130% | 79 |
| | BH32(0.2m) | SE239041.022 | % | 60 - 130% | 78 |
| | BH33(0.2m) | SE239041.023 | % | 60 - 130% | 77 |
| | BH34(0.2m) | SE239041.024 | % | 60 - 130% | 75 |
| | BH35(0.2m) | SE239041.025 | % | 60 - 130% | 77 |
| | BH36(0.6m) | SE239041.026 | % | 60 - 130% | 80 |
| | BH37(0.6m) | SE239041.027 | % | 60 - 130% | 81 |
| | BH38(0.2m) | SE239041.028 | % | 60 - 130% | 74 |
| | BH39(0.2m) | SE239041.029 | % | 60 - 130% | 78 |
| | BH40(0.2m) | SE239041.030 | % | 60 - 130% | 70 |
| | BH41(0.5m) | SE239041.031 | % | 60 - 130% | 78 |
| | BH42(0.2m) | SE239041.032 | % | 60 - 130% | 78 |
| | BH43(0.2m) | SE239041.033 | % | 60 - 130% | 75 |
| | BH44(0.2m) | SE239041.034 | % | 60 - 130% | 81 |
| | BH45(0.2m) | SE239041.035 | % | 60 - 130% | 78 |
| | BH46(0.2m) | SE239041.036 | % | 60 - 130% | 75 |

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

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

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| Bromofluorobenzene (Surrogate) | BH47(0.7m) | SE239041.037 | % | 60 - 130% | 79 |
| | BH48(0.1m) | SE239041.038 | % | 60 - 130% | 76 |
| | BH49(0.5m) | SE239041.039 | % | 60 - 130% | 97 |
| | BH50(0.2m) | SE239041.040 | % | 60 - 130% | 98 |
| | BH51(0.2m) | SE239041.041 | % | 60 - 130% | 89 |
| | BH52(0.7m) | SE239041.042 | % | 60 - 130% | 89 |
| | BH53(0.2m) | SE239041.043 | % | 60 - 130% | 87 |
| | BH54(0.2m) | SE239041.044 | % | 60 - 130% | 96 |
| | BH55(0.7m) | SE239041.045 | % | 60 - 130% | 93 |
| | BH56(0.2m) | SE239041.046 | % | 60 - 130% | 90 |
| | BH57(0.2m) | SE239041.047 | % | 60 - 130% | 91 |
| | BH58(0.2m) | SE239041.048 | % | 60 - 130% | 92 |
| | BH59(0.2m) | SE239041.049 | % | 60 - 130% | 86 |
| | BH60(0.2m) | SE239041.050 | % | 60 - 130% | 98 |
| | BH61(0.5m) | SE239041.051 | % | 60 - 130% | 91 |
| | BH62(0.2m) | SE239041.052 | % | 60 - 130% | 97 |
| | BH63(0.2m) | SE239041.053 | % | 60 - 130% | 78 |
| | BH64(0.2m) | SE239041.054 | % | 60 - 130% | 92 |
| | BH65(0.9m) | SE239041.055 | % | 60 - 130% | 99 |
| | BH66(0.2m) | SE239041.056 | % | 60 - 130% | 92 |
| | BH67(0.2m) | SE239041.057 | % | 60 - 130% | 92 |
| | BH68(0.6m) | SE239041.058 | % | 60 - 130% | 85 |
| | BH69(0.2m) | SE239041.059 | % | 60 - 130% | 79 |
| | BH70(0.2m) | SE239041.060 | % | 60 - 130% | 79 |
| | BH71(0.2m) | SE239041.061 | % | 60 - 130% | 75 |
| | BH72(0.8m) | SE239041.062 | % | 60 - 130% | 74 |
| | BH73(0.2m) | SE239041.063 | % | 60 - 130% | 75 |
| | BH74(0.2m) | SE239041.064 | % | 60 - 130% | 77 |
| | BH75(1.0m) | SE239041.065 | % | 60 - 130% | 80 |
| | BH76(0.2m) | SE239041.066 | % | 60 - 130% | 76 |
| | BH77(0.2m) | SE239041.067 | % | 60 - 130% | 80 |
| | BH78(0.2m) | SE239041.068 | % | 60 - 130% | 80 |
| | BH79(0.2m) | SE239041.069 | % | 60 - 130% | 78 |
| | BH80(0.6m) | SE239041.070 | % | 60 - 130% | 76 |
| | BH81(0.8m) | SE239041.071 | % | 60 - 130% | 76 |
| | BH82(0.2m) | SE239041.072 | % | 60 - 130% | 73 |
| | BH83(0.2m) | SE239041.073 | % | 60 - 130% | 78 |
| | BH84(0.1m) | SE239041.074 | % | 60 - 130% | 78 |
| | BH85(0.2m) | SE239041.075 | % | 60 - 130% | 81 |
| | BH86(0.7m) | SE239041.076 | % | 60 - 130% | 83 |
| | BH87(0.8m) | SE239041.077 | % | 60 - 130% | 101 |
| | BH88(0.2m) | SE239041.078 | % | 60 - 130% | 95 |
| | BH89(0.2m) | SE239041.079 | % | 60 - 130% | 108 |
| | BH90(0.2m) | SE239041.080 | % | 60 - 130% | 103 |
| | BH91(1.0m) | SE239041.081 | % | 60 - 130% | 107 |
| | BH92(0.2m) | SE239041.082 | % | 60 - 130% | 93 |
| | BH93(0.2m) | SE239041.083 | % | 60 - 130% | 99 |
| | BH94(0.2m) | SE239041.084 | % | 60 - 130% | 99 |
| | BH95(0.2m) | SE239041.085 | % | 60 - 130% | 103 |
| | BH96(0.7m) | SE239041.086 | % | 60 - 130% | 101 |
| | BH97(0.2m) | SE239041.087 | % | 60 - 130% | 94 |
| | BH98(0.2m) | SE239041.088 | % | 60 - 130% | 96 |
| | BR1 | SE239041.089 | % | 60 - 130% | 99 |
| | BR2 | SE239041.090 | % | 60 - 130% | 93 |
| | BR3 | SE239041.091 | % | 60 - 130% | 96 |
| | BR4 | SE239041.092 | % | 60 - 130% | 94 |
| | WD1 | SE239041.093 | % | 60 - 130% | 79 |
| | WD2 | SE239041.094 | % | 60 - 130% | 85 |
| | TRIP BLANK | SE239041.098 | % | 60 - 130% | 97 |
| d4-1,2-dichloroethane (Surrogate) | BH11(0.2m) | SE239041.001 | % | 60 - 130% | 100 |
| | BH12(0.7m) | SE239041.002 | % | 60 - 130% | 116 |

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

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

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| d4-1,2-dichloroethane (Surrogate) | BH13(0.2m) | SE239041.003 | % | 60 - 130% | 123 |
| | BH14(0.2m) | SE239041.004 | % | 60 - 130% | 111 |
| | BH15(0.5m) | SE239041.005 | % | 60 - 130% | 120 |
| | BH16(0.2m) | SE239041.006 | % | 60 - 130% | 120 |
| | BH17(0.7m) | SE239041.007 | % | 60 - 130% | 118 |
| | BH18(0.2m) | SE239041.008 | % | 60 - 130% | 129 |
| | BH19(0.2m) | SE239041.009 | % | 60 - 130% | 118 |
| | BH20(0.2m) | SE239041.010 | % | 60 - 130% | 126 |
| | BH21(0.5m) | SE239041.011 | % | 60 - 130% | 123 |
| | BH22(0.2m) | SE239041.012 | % | 60 - 130% | 121 |
| | BH23(0.2m) | SE239041.013 | % | 60 - 130% | 122 |
| | BH24(0.2m) | SE239041.014 | % | 60 - 130% | 120 |
| | BH25(0.2m) | SE239041.015 | % | 60 - 130% | 110 |
| | BH26(surface sample) | SE239041.016 | % | 60 - 130% | 121 |
| | BH27(0.2m) | SE239041.017 | % | 60 - 130% | 120 |
| | BH28(0.4m) | SE239041.018 | % | 60 - 130% | 135 ① |
| | BH29(0.5m) | SE239041.019 | % | 60 - 130% | 129 |
| | BH30(0.2m) | SE239041.020 | % | 60 - 130% | 86 |
| | BH31(0.2m) | SE239041.021 | % | 60 - 130% | 86 |
| | BH32(0.2m) | SE239041.022 | % | 60 - 130% | 86 |
| | BH33(0.2m) | SE239041.023 | % | 60 - 130% | 86 |
| | BH34(0.2m) | SE239041.024 | % | 60 - 130% | 85 |
| | BH35(0.2m) | SE239041.025 | % | 60 - 130% | 87 |
| | BH36(0.6m) | SE239041.026 | % | 60 - 130% | 91 |
| | BH37(0.6m) | SE239041.027 | % | 60 - 130% | 90 |
| | BH38(0.2m) | SE239041.028 | % | 60 - 130% | 85 |
| | BH39(0.2m) | SE239041.029 | % | 60 - 130% | 88 |
| | BH40(0.2m) | SE239041.030 | % | 60 - 130% | 79 |
| | BH41(0.5m) | SE239041.031 | % | 60 - 130% | 87 |
| | BH42(0.2m) | SE239041.032 | % | 60 - 130% | 91 |
| | BH43(0.2m) | SE239041.033 | % | 60 - 130% | 85 |
| | BH44(0.2m) | SE239041.034 | % | 60 - 130% | 90 |
| | BH45(0.2m) | SE239041.035 | % | 60 - 130% | 90 |
| | BH46(0.2m) | SE239041.036 | % | 60 - 130% | 87 |
| | BH47(0.7m) | SE239041.037 | % | 60 - 130% | 88 |
| | BH48(0.1m) | SE239041.038 | % | 60 - 130% | 86 |
| | BH49(0.5m) | SE239041.039 | % | 60 - 130% | 96 |
| | BH50(0.2m) | SE239041.040 | % | 60 - 130% | 102 |
| | BH51(0.2m) | SE239041.041 | % | 60 - 130% | 92 |
| | BH52(0.7m) | SE239041.042 | % | 60 - 130% | 89 |
| | BH53(0.2m) | SE239041.043 | % | 60 - 130% | 88 |
| | BH54(0.2m) | SE239041.044 | % | 60 - 130% | 97 |
| | BH55(0.7m) | SE239041.045 | % | 60 - 130% | 93 |
| | BH56(0.2m) | SE239041.046 | % | 60 - 130% | 91 |
| | BH57(0.2m) | SE239041.047 | % | 60 - 130% | 95 |
| | BH58(0.2m) | SE239041.048 | % | 60 - 130% | 94 |
| | BH59(0.2m) | SE239041.049 | % | 60 - 130% | 87 |
| | BH60(0.2m) | SE239041.050 | % | 60 - 130% | 98 |
| | BH61(0.5m) | SE239041.051 | % | 60 - 130% | 91 |
| | BH62(0.2m) | SE239041.052 | % | 60 - 130% | 98 |
| | BH63(0.2m) | SE239041.053 | % | 60 - 130% | 80 |
| | BH64(0.2m) | SE239041.054 | % | 60 - 130% | 97 |
| | BH65(0.9m) | SE239041.055 | % | 60 - 130% | 97 |
| | BH66(0.2m) | SE239041.056 | % | 60 - 130% | 93 |
| | BH67(0.2m) | SE239041.057 | % | 60 - 130% | 83 |
| | BH68(0.6m) | SE239041.058 | % | 60 - 130% | 81 |
| | BH69(0.2m) | SE239041.059 | % | 60 - 130% | 80 |
| | BH70(0.2m) | SE239041.060 | % | 60 - 130% | 81 |
| | BH71(0.2m) | SE239041.061 | % | 60 - 130% | 79 |
| | BH72(0.8m) | SE239041.062 | % | 60 - 130% | 80 |
| | BH73(0.2m) | SE239041.063 | % | 60 - 130% | 76 |

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

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

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| d4-1,2-dichloroethane (Surrogate) | BH74(0.2m) | SE239041.064 | % | 60 - 130% | 80 |
| | BH75(1.0m) | SE239041.065 | % | 60 - 130% | 80 |
| | BH76(0.2m) | SE239041.066 | % | 60 - 130% | 73 |
| | BH77(0.2m) | SE239041.067 | % | 60 - 130% | 76 |
| | BH78(0.2m) | SE239041.068 | % | 60 - 130% | 76 |
| | BH79(0.2m) | SE239041.069 | % | 60 - 130% | 77 |
| | BH80(0.6m) | SE239041.070 | % | 60 - 130% | 72 |
| | BH81(0.8m) | SE239041.071 | % | 60 - 130% | 73 |
| | BH82(0.2m) | SE239041.072 | % | 60 - 130% | 79 |
| | BH83(0.2m) | SE239041.073 | % | 60 - 130% | 76 |
| | BH84(0.1m) | SE239041.074 | % | 60 - 130% | 79 |
| | BH85(0.2m) | SE239041.075 | % | 60 - 130% | 79 |
| | BH86(0.7m) | SE239041.076 | % | 60 - 130% | 81 |
| | BH87(0.8m) | SE239041.077 | % | 60 - 130% | 98 |
| | BH88(0.2m) | SE239041.078 | % | 60 - 130% | 100 |
| | BH89(0.2m) | SE239041.079 | % | 60 - 130% | 103 |
| | BH90(0.2m) | SE239041.080 | % | 60 - 130% | 107 |
| | BH91(1.0m) | SE239041.081 | % | 60 - 130% | 110 |
| | BH92(0.2m) | SE239041.082 | % | 60 - 130% | 96 |
| | BH93(0.2m) | SE239041.083 | % | 60 - 130% | 100 |
| | BH94(0.2m) | SE239041.084 | % | 60 - 130% | 98 |
| | BH95(0.2m) | SE239041.085 | % | 60 - 130% | 102 |
| | BH96(0.7m) | SE239041.086 | % | 60 - 130% | 101 |
| | BH97(0.2m) | SE239041.087 | % | 60 - 130% | 100 |
| | BH98(0.2m) | SE239041.088 | % | 60 - 130% | 98 |
| | BR1 | SE239041.089 | % | 60 - 130% | 102 |
| | BR2 | SE239041.090 | % | 60 - 130% | 95 |
| | BR3 | SE239041.091 | % | 60 - 130% | 98 |
| | BR4 | SE239041.092 | % | 60 - 130% | 96 |
| | WD1 | SE239041.093 | % | 60 - 130% | 83 |
| | WD2 | SE239041.094 | % | 60 - 130% | 87 |
| | TRIP BLANK | SE239041.098 | % | 60 - 130% | 101 |
| d8-toluene (Surrogate) | BH11(0.2m) | SE239041.001 | % | 60 - 130% | 75 |
| | BH12(0.7m) | SE239041.002 | % | 60 - 130% | 92 |
| | BH13(0.2m) | SE239041.003 | % | 60 - 130% | 98 |
| | BH14(0.2m) | SE239041.004 | % | 60 - 130% | 89 |
| | BH15(0.5m) | SE239041.005 | % | 60 - 130% | 97 |
| | BH16(0.2m) | SE239041.006 | % | 60 - 130% | 92 |
| | BH17(0.7m) | SE239041.007 | % | 60 - 130% | 90 |
| | BH18(0.2m) | SE239041.008 | % | 60 - 130% | 97 |
| | BH19(0.2m) | SE239041.009 | % | 60 - 130% | 96 |
| | BH20(0.2m) | SE239041.010 | % | 60 - 130% | 98 |
| | BH21(0.5m) | SE239041.011 | % | 60 - 130% | 96 |
| | BH22(0.2m) | SE239041.012 | % | 60 - 130% | 90 |
| | BH23(0.2m) | SE239041.013 | % | 60 - 130% | 87 |
| | BH24(0.2m) | SE239041.014 | % | 60 - 130% | 89 |
| | BH25(0.2m) | SE239041.015 | % | 60 - 130% | 79 |
| | BH26(surface sample) | SE239041.016 | % | 60 - 130% | 88 |
| | BH27(0.2m) | SE239041.017 | % | 60 - 130% | 89 |
| | BH28(0.4m) | SE239041.018 | % | 60 - 130% | 94 |
| | BH29(0.5m) | SE239041.019 | % | 60 - 130% | 96 |
| | BH30(0.2m) | SE239041.020 | % | 60 - 130% | 89 |
| | BH31(0.2m) | SE239041.021 | % | 60 - 130% | 89 |
| | BH32(0.2m) | SE239041.022 | % | 60 - 130% | 88 |
| | BH33(0.2m) | SE239041.023 | % | 60 - 130% | 88 |
| | BH34(0.2m) | SE239041.024 | % | 60 - 130% | 86 |
| | BH35(0.2m) | SE239041.025 | % | 60 - 130% | 87 |
| | BH36(0.6m) | SE239041.026 | % | 60 - 130% | 91 |
| | BH37(0.6m) | SE239041.027 | % | 60 - 130% | 92 |
| | BH38(0.2m) | SE239041.028 | % | 60 - 130% | 85 |
| | BH39(0.2m) | SE239041.029 | % | 60 - 130% | 90 |

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

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

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| d8-toluene (Surrogate) | BH40(0.2m) | SE239041.030 | % | 60 - 130% | 80 |
| | BH41(0.5m) | SE239041.031 | % | 60 - 130% | 89 |
| | BH42(0.2m) | SE239041.032 | % | 60 - 130% | 91 |
| | BH43(0.2m) | SE239041.033 | % | 60 - 130% | 85 |
| | BH44(0.2m) | SE239041.034 | % | 60 - 130% | 90 |
| | BH45(0.2m) | SE239041.035 | % | 60 - 130% | 90 |
| | BH46(0.2m) | SE239041.036 | % | 60 - 130% | 87 |
| | BH47(0.7m) | SE239041.037 | % | 60 - 130% | 92 |
| | BH48(0.1m) | SE239041.038 | % | 60 - 130% | 88 |
| | BH49(0.5m) | SE239041.039 | % | 60 - 130% | 95 |
| | BH50(0.2m) | SE239041.040 | % | 60 - 130% | 99 |
| | BH51(0.2m) | SE239041.041 | % | 60 - 130% | 91 |
| | BH52(0.7m) | SE239041.042 | % | 60 - 130% | 88 |
| | BH53(0.2m) | SE239041.043 | % | 60 - 130% | 87 |
| | BH54(0.2m) | SE239041.044 | % | 60 - 130% | 97 |
| | BH55(0.7m) | SE239041.045 | % | 60 - 130% | 93 |
| | BH56(0.2m) | SE239041.046 | % | 60 - 130% | 90 |
| | BH57(0.2m) | SE239041.047 | % | 60 - 130% | 93 |
| | BH58(0.2m) | SE239041.048 | % | 60 - 130% | 94 |
| | BH59(0.2m) | SE239041.049 | % | 60 - 130% | 85 |
| | BH60(0.2m) | SE239041.050 | % | 60 - 130% | 98 |
| | BH61(0.5m) | SE239041.051 | % | 60 - 130% | 89 |
| | BH62(0.2m) | SE239041.052 | % | 60 - 130% | 99 |
| | BH63(0.2m) | SE239041.053 | % | 60 - 130% | 78 |
| | BH64(0.2m) | SE239041.054 | % | 60 - 130% | 119 |
| | BH65(0.9m) | SE239041.055 | % | 60 - 130% | 96 |
| | BH66(0.2m) | SE239041.056 | % | 60 - 130% | 92 |
| | BH67(0.2m) | SE239041.057 | % | 60 - 130% | 110 |
| | BH68(0.6m) | SE239041.058 | % | 60 - 130% | 79 |
| | BH69(0.2m) | SE239041.059 | % | 60 - 130% | 76 |
| | BH70(0.2m) | SE239041.060 | % | 60 - 130% | 77 |
| | BH71(0.2m) | SE239041.061 | % | 60 - 130% | 78 |
| | BH72(0.8m) | SE239041.062 | % | 60 - 130% | 79 |
| | BH73(0.2m) | SE239041.063 | % | 60 - 130% | 73 |
| | BH74(0.2m) | SE239041.064 | % | 60 - 130% | 74 |
| | BH75(1.0m) | SE239041.065 | % | 60 - 130% | 78 |
| | BH76(0.2m) | SE239041.066 | % | 60 - 130% | 70 |
| | BH77(0.2m) | SE239041.067 | % | 60 - 130% | 74 |
| | BH78(0.2m) | SE239041.068 | % | 60 - 130% | 87 |
| | BH79(0.2m) | SE239041.069 | % | 60 - 130% | 78 |
| | BH80(0.6m) | SE239041.070 | % | 60 - 130% | 73 |
| | BH81(0.8m) | SE239041.071 | % | 60 - 130% | 74 |
| | BH82(0.2m) | SE239041.072 | % | 60 - 130% | 78 |
| | BH83(0.2m) | SE239041.073 | % | 60 - 130% | 74 |
| | BH84(0.1m) | SE239041.074 | % | 60 - 130% | 77 |
| | BH85(0.2m) | SE239041.075 | % | 60 - 130% | 81 |
| | BH86(0.7m) | SE239041.076 | % | 60 - 130% | 84 |
| | BH87(0.8m) | SE239041.077 | % | 60 - 130% | 97 |
| | BH88(0.2m) | SE239041.078 | % | 60 - 130% | 100 |
| | BH89(0.2m) | SE239041.079 | % | 60 - 130% | 101 |
| | BH90(0.2m) | SE239041.080 | % | 60 - 130% | 105 |
| | BH91(1.0m) | SE239041.081 | % | 60 - 130% | 107 |
| | BH92(0.2m) | SE239041.082 | % | 60 - 130% | 94 |
| | BH93(0.2m) | SE239041.083 | % | 60 - 130% | 98 |
| | BH94(0.2m) | SE239041.084 | % | 60 - 130% | 98 |
| | BH95(0.2m) | SE239041.085 | % | 60 - 130% | 101 |
| | BH96(0.7m) | SE239041.086 | % | 60 - 130% | 101 |
| | BH97(0.2m) | SE239041.087 | % | 60 - 130% | 127 |
| | BH98(0.2m) | SE239041.088 | % | 60 - 130% | 97 |
| | BR1 | SE239041.089 | % | 60 - 130% | 100 |
| | BR2 | SE239041.090 | % | 60 - 130% | 93 |

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

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

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| d8-toluene (Surrogate) | BR3 | SE239041.091 | % | 60 - 130% | 97 |
| | BR4 | SE239041.092 | % | 60 - 130% | 95 |
| | WD1 | SE239041.093 | % | 60 - 130% | 79 |
| | WD2 | SE239041.094 | % | 60 - 130% | 84 |
| | TRIP BLANK | SE239041.098 | % | 60 - 130% | 99 |

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| Bromofluorobenzene (Surrogate) | WD1 | SE239041.095 | % | 40 - 130% | 103 |
| | WD2 | SE239041.096 | % | 40 - 130% | 102 |
| | RIN | SE239041.097 | % | 40 - 130% | 101 |
| d4-1,2-dichloroethane (Surrogate) | WD1 | SE239041.095 | % | 60 - 130% | 82 |
| | WD2 | SE239041.096 | % | 60 - 130% | 88 |
| | RIN | SE239041.097 | % | 60 - 130% | 88 |
| d8-toluene (Surrogate) | WD1 | SE239041.095 | % | 40 - 130% | 104 |
| | WD2 | SE239041.096 | % | 40 - 130% | 113 |
| | RIN | SE239041.097 | % | 40 - 130% | 108 |

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 (dissolved) in Water

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

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB263955.001 | Mercury | mg/L | 0.0001 | <0.0001 |

## Mercury in Soil

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

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB264256.001 | Mercury | mg/kg | 0.05 | <0.05 |
| LB264257.001 | Mercury | mg/kg | 0.05 | <0.05 |
| LB264259.001 | Mercury | mg/kg | 0.05 | <0.05 |
| LB264260.001 | Mercury | mg/kg | 0.05 | <0.05 |
| LB264261.001 | Mercury | mg/kg | 0.05 | <0.05 |

## OC Pesticides in Soil

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

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB263988.001 | | Alpha BHC | mg/kg | 0.1 | <0.1 |
| | | Hexachlorobenzene (HCB) | mg/kg | 0.1 | <0.1 |
| | | Beta BHC | mg/kg | 0.1 | <0.1 |
| | | Lindane (gamma BHC) | mg/kg | 0.1 | <0.1 |
| | | Delta BHC | mg/kg | 0.1 | <0.1 |
| | | Heptachlor | mg/kg | 0.1 | <0.1 |
| | | Aldrin | mg/kg | 0.1 | <0.1 |
| | | Isodrin | mg/kg | 0.1 | <0.1 |
| | | Heptachlor epoxide | mg/kg | 0.1 | <0.1 |
| | | Gamma Chlordane | mg/kg | 0.1 | <0.1 |
| | | Alpha Chlordane | mg/kg | 0.1 | <0.1 |
| | | Alpha Endosulfan | mg/kg | 0.2 | <0.2 |
| | | 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 |
| | | Endrin aldehyde | mg/kg | 0.1 | <0.1 |
| | | Endosulfan sulphate | mg/kg | 0.1 | <0.1 |
| | | p,p'-DDT | mg/kg | 0.1 | <0.1 |
| | | Endrin ketone | mg/kg | 0.1 | <0.1 |
| | | Methoxychlor | mg/kg | 0.1 | <0.1 |
| | | Mirex | mg/kg | 0.1 | <0.1 |
| | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | % | - | 102 |
| LB263989.001 | | Alpha BHC | mg/kg | 0.1 | <0.1 |
| | | Hexachlorobenzene (HCB) | mg/kg | 0.1 | <0.1 |
| | | Beta BHC | mg/kg | 0.1 | <0.1 |
| | | Lindane (gamma BHC) | mg/kg | 0.1 | <0.1 |
| | | Delta BHC | mg/kg | 0.1 | <0.1 |
| | | Heptachlor | mg/kg | 0.1 | <0.1 |
| | | Aldrin | mg/kg | 0.1 | <0.1 |
| | | Isodrin | mg/kg | 0.1 | <0.1 |
| | | Heptachlor epoxide | mg/kg | 0.1 | <0.1 |
| | | Gamma Chlordane | mg/kg | 0.1 | <0.1 |
| | | Alpha Chlordane | mg/kg | 0.1 | <0.1 |
| | | Alpha Endosulfan | mg/kg | 0.2 | <0.2 |
| | | 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 |
| | | Endrin aldehyde | mg/kg | 0.1 | <0.1 |
| | | Endosulfan sulphate | mg/kg | 0.1 | <0.1 |
| | | p,p'-DDT | mg/kg | 0.1 | <0.1 |
| | | Endrin ketone | mg/kg | 0.1 | <0.1 |
| | | Methoxychlor | mg/kg | 0.1 | <0.1 |
| | | Mirex | mg/kg | 0.1 | <0.1 |
| | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | % | - | 98 |

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

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

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

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB263997.001 | | Alpha BHC | mg/kg | 0.1 | <0.1 |
| | | Hexachlorobenzene (HCB) | mg/kg | 0.1 | <0.1 |
| | | Beta BHC | mg/kg | 0.1 | <0.1 |
| | | Lindane (gamma BHC) | mg/kg | 0.1 | <0.1 |
| | | Delta BHC | mg/kg | 0.1 | <0.1 |
| | | Heptachlor | mg/kg | 0.1 | <0.1 |
| | | Aldrin | mg/kg | 0.1 | <0.1 |
| | | Isodrin | mg/kg | 0.1 | <0.1 |
| | | Heptachlor epoxide | mg/kg | 0.1 | <0.1 |
| | | Gamma Chlordane | mg/kg | 0.1 | <0.1 |
| | | Alpha Chlordane | mg/kg | 0.1 | <0.1 |
| | | Alpha Endosulfan | mg/kg | 0.2 | <0.2 |
| | | 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 |
| | | Endrin aldehyde | mg/kg | 0.1 | <0.1 |
| | | Endosulfan sulphate | mg/kg | 0.1 | <0.1 |
| | | p,p'-DDT | mg/kg | 0.1 | <0.1 |
| | | Endrin ketone | mg/kg | 0.1 | <0.1 |
| | | Methoxychlor | mg/kg | 0.1 | <0.1 |
| | | Mirex | mg/kg | 0.1 | <0.1 |
| | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | % | - | 99 |
| LB263998.001 | | Alpha BHC | mg/kg | 0.1 | <0.1 |
| | | Hexachlorobenzene (HCB) | mg/kg | 0.1 | <0.1 |
| | | Beta BHC | mg/kg | 0.1 | <0.1 |
| | | Lindane (gamma BHC) | mg/kg | 0.1 | <0.1 |
| | | Delta BHC | mg/kg | 0.1 | <0.1 |
| | | Heptachlor | mg/kg | 0.1 | <0.1 |
| | | Aldrin | mg/kg | 0.1 | <0.1 |
| | | Isodrin | mg/kg | 0.1 | <0.1 |
| | | Heptachlor epoxide | mg/kg | 0.1 | <0.1 |
| | | Gamma Chlordane | mg/kg | 0.1 | <0.1 |
| | | Alpha Chlordane | mg/kg | 0.1 | <0.1 |
| | | Alpha Endosulfan | mg/kg | 0.2 | <0.2 |
| | | 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 |
| | | Endrin aldehyde | mg/kg | 0.1 | <0.1 |
| | | Endosulfan sulphate | mg/kg | 0.1 | <0.1 |
| | | p,p'-DDT | mg/kg | 0.1 | <0.1 |
| | | Endrin ketone | mg/kg | 0.1 | <0.1 |
| | | Methoxychlor | mg/kg | 0.1 | <0.1 |
| | | Mirex | mg/kg | 0.1 | <0.1 |
| | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | % | - | 106 |
| LB263999.001 | | Alpha BHC | mg/kg | 0.1 | <0.1 |
| | | Hexachlorobenzene (HCB) | mg/kg | 0.1 | <0.1 |
| | | Beta BHC | mg/kg | 0.1 | <0.1 |
| | | Lindane (gamma BHC) | mg/kg | 0.1 | <0.1 |
| | | Delta BHC | mg/kg | 0.1 | <0.1 |
| | | Heptachlor | mg/kg | 0.1 | <0.1 |
| | | Aldrin | mg/kg | 0.1 | <0.1 |
| | | Isodrin | mg/kg | 0.1 | <0.1 |
| | | Heptachlor epoxide | mg/kg | 0.1 | <0.1 |
| | | Gamma Chlordane | mg/kg | 0.1 | <0.1 |
| | | Alpha Chlordane | mg/kg | 0.1 | <0.1 |
| | | Alpha Endosulfan | mg/kg | 0.2 | <0.2 |
| | | p,p'-DDE | mg/kg | 0.1 | <0.1 |

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

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

## OC Pesticides in Soil (continued)

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

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB263999.001 | | 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 |
| | | Endrin aldehyde | mg/kg | 0.1 | <0.1 |
| | | Endosulfan sulphate | mg/kg | 0.1 | <0.1 |
| | | p,p'-DDT | mg/kg | 0.1 | <0.1 |
| | | Endrin ketone | mg/kg | 0.1 | <0.1 |
| | | Methoxychlor | mg/kg | 0.1 | <0.1 |
| | | Mirex | mg/kg | 0.1 | <0.1 |
| | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | % | - | 105 |

## OC Pesticides in Water

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

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB263924.001 | | Alpha BHC | µg/L | 0.1 | <0.1 |
| | | Hexachlorobenzene (HCB) | µg/L | 0.1 | <0.1 |
| | | Beta BHC | µg/L | 0.1 | <0.1 |
| | | Lindane (gamma BHC) | µg/L | 0.1 | <0.1 |
| | | Delta BHC | µg/L | 0.1 | <0.1 |
| | | Heptachlor | µg/L | 0.1 | <0.1 |
| | | Aldrin | µg/L | 0.1 | <0.1 |
| | | Isodrin | µg/L | 0.1 | <0.1 |
| | | Heptachlor epoxide | µg/L | 0.1 | <0.1 |
| | | Gamma Chlordane | µg/L | 0.1 | <0.1 |
| | | Alpha Chlordane | µg/L | 0.1 | <0.1 |
| | | Alpha Endosulfan | µg/L | 0.1 | <0.1 |
| | | p,p'-DDE | µg/L | 0.1 | <0.1 |
| | | Dieldrin | µg/L | 0.1 | <0.1 |
| | | Endrin | µg/L | 0.1 | <0.1 |
| | | Beta Endosulfan | µg/L | 0.1 | <0.1 |
| | | p,p'-DDD | µg/L | 0.1 | <0.1 |
| | | Endrin aldehyde | µg/L | 0.1 | <0.1 |
| | | Endosulfan sulphate | µg/L | 0.1 | <0.1 |
| | | p,p'-DDT | µg/L | 0.1 | <0.1 |
| | | Endrin ketone | µg/L | 0.1 | <0.1 |
| | | Methoxychlor | µg/L | 0.1 | <0.1 |
| | | Mirex | µg/L | 0.1 | <0.1 |
| | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | % | - | 93 |

## OP Pesticides in Soil

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

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB263988.001 | | Azinphos-methyl (Guthion) | mg/kg | 0.2 | <0.2 |
| | | Bromophos Ethyl | mg/kg | 0.2 | <0.2 |
| | | Chlorpyrifos (Chlorpyrifos Ethyl) | mg/kg | 0.2 | <0.2 |
| | | Diazinon (Dimpylate) | mg/kg | 0.5 | <0.5 |
| | | Dichlorvos | mg/kg | 0.5 | <0.5 |
| | | Dimethoate | mg/kg | 0.5 | <0.5 |
| | | Ethion | mg/kg | 0.2 | <0.2 |
| | | Fenitrothion | mg/kg | 0.2 | <0.2 |
| | | Malathion | mg/kg | 0.2 | <0.2 |
| | | Methidathion | mg/kg | 0.5 | <0.5 |
| | | Parathion-ethyl (Parathion) | mg/kg | 0.2 | <0.2 |
| | Surrogates | 2-fluorobiphenyl (Surrogate) | % | - | 94 |
| | | d14-p-terphenyl (Surrogate) | % | - | 101 |
| LB263989.001 | | Azinphos-methyl (Guthion) | mg/kg | 0.2 | <0.2 |
| | | Bromophos Ethyl | mg/kg | 0.2 | <0.2 |
| | | Chlorpyrifos (Chlorpyrifos Ethyl) | mg/kg | 0.2 | <0.2 |
| | | Diazinon (Dimpylate) | mg/kg | 0.5 | <0.5 |
| | | Dichlorvos | mg/kg | 0.5 | <0.5 |
| | | Dimethoate | mg/kg | 0.5 | <0.5 |
| | | Ethion | mg/kg | 0.2 | <0.2 |
| | | 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)-[ENV]AN420

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB263989.001 | | Malathion | mg/kg | 0.2 | <0.2 |
| | | Methidathion | mg/kg | 0.5 | <0.5 |
| | | Parathion-ethyl (Parathion) | mg/kg | 0.2 | <0.2 |
| | Surrogates | 2-fluorobiphenyl (Surrogate) | % | - | 94 |
| | | d14-p-terphenyl (Surrogate) | % | - | 97 |
| LB263997.001 | | Azinphos-methyl (Guthion) | mg/kg | 0.2 | <0.2 |
| | | Bromophos Ethyl | mg/kg | 0.2 | <0.2 |
| | | Chlorpyrifos (Chlorpyrifos Ethyl) | mg/kg | 0.2 | <0.2 |
| | | Diazinon (Dimpylate) | mg/kg | 0.5 | <0.5 |
| | | Dichlorvos | mg/kg | 0.5 | <0.5 |
| | | Dimethoate | mg/kg | 0.5 | <0.5 |
| | | Ethion | mg/kg | 0.2 | <0.2 |
| | | Fenitrothion | mg/kg | 0.2 | <0.2 |
| | | Malathion | mg/kg | 0.2 | <0.2 |
| | | Methidathion | mg/kg | 0.5 | <0.5 |
| | | Parathion-ethyl (Parathion) | mg/kg | 0.2 | <0.2 |
| | Surrogates | 2-fluorobiphenyl (Surrogate) | % | - | 95 |
| | | d14-p-terphenyl (Surrogate) | % | - | 99 |
| LB263998.001 | | Azinphos-methyl (Guthion) | mg/kg | 0.2 | <0.2 |
| | | Bromophos Ethyl | mg/kg | 0.2 | <0.2 |
| | | Chlorpyrifos (Chlorpyrifos Ethyl) | mg/kg | 0.2 | <0.2 |
| | | Diazinon (Dimpylate) | mg/kg | 0.5 | <0.5 |
| | | Dichlorvos | mg/kg | 0.5 | <0.5 |
| | | Dimethoate | mg/kg | 0.5 | <0.5 |
| | | Ethion | mg/kg | 0.2 | <0.2 |
| | | Fenitrothion | mg/kg | 0.2 | <0.2 |
| | | Malathion | mg/kg | 0.2 | <0.2 |
| | | Methidathion | mg/kg | 0.5 | <0.5 |
| | | Parathion-ethyl (Parathion) | mg/kg | 0.2 | <0.2 |
| | Surrogates | 2-fluorobiphenyl (Surrogate) | % | - | 92 |
| | | d14-p-terphenyl (Surrogate) | % | - | 96 |
| LB263999.001 | | Azinphos-methyl (Guthion) | mg/kg | 0.2 | <0.2 |
| | | Bromophos Ethyl | mg/kg | 0.2 | <0.2 |
| | | Chlorpyrifos (Chlorpyrifos Ethyl) | mg/kg | 0.2 | <0.2 |
| | | Diazinon (Dimpylate) | mg/kg | 0.5 | <0.5 |
| | | Dichlorvos | mg/kg | 0.5 | <0.5 |
| | | Dimethoate | mg/kg | 0.5 | <0.5 |
| | | Ethion | mg/kg | 0.2 | <0.2 |
| | | Fenitrothion | mg/kg | 0.2 | <0.2 |
| | | Malathion | mg/kg | 0.2 | <0.2 |
| | | Methidathion | mg/kg | 0.5 | <0.5 |
| | | Parathion-ethyl (Parathion) | mg/kg | 0.2 | <0.2 |
| | Surrogates | 2-fluorobiphenyl (Surrogate) | % | - | 115 |
| | | d14-p-terphenyl (Surrogate) | % | - | 117 |

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

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB263924.001 | | Azinphos-methyl | µg/L | 0.2 | <0.2 |
| | | Bromophos Ethyl | µg/L | 0.2 | <0.2 |
| | | Chlorpyrifos (Chlorpyrifos Ethyl) | µg/L | 0.2 | <0.2 |
| | | Diazinon (Dimpylate) | µg/L | 0.5 | <0.5 |
| | | Dichlorvos | µg/L | 0.5 | <0.5 |
| | | Dimethoate | µg/L | 0.5 | <0.5 |
| | | Ethion | µg/L | 0.2 | <0.2 |
| | | Fenitrothion | µg/L | 0.2 | <0.2 |
| | | Malathion | µg/L | 0.2 | <0.2 |
| | | Methidathion | µg/L | 0.5 | <0.5 |
| | | Parathion-ethyl (Parathion) | µg/L | 0.2 | <0.2 |
| | Surrogates | 2-fluorobiphenyl (Surrogate) | % | - | 68 |
| | | d14-p-terphenyl (Surrogate) | % | - | 82 |

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** — **Method: ME-(AU)-[ENV]AN420**

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB263988.001 | | 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) | % | - | 107 |
| | | 2-fluorobiphenyl (Surrogate) | % | - | 94 |
| | | d14-p-terphenyl (Surrogate) | % | - | 101 |
| LB263989.001 | | 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) | % | - | 107 |
| | | 2-fluorobiphenyl (Surrogate) | % | - | 94 |
| | | d14-p-terphenyl (Surrogate) | % | - | 97 |
| LB263997.001 | | 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) | % | - | 111 |
| | | 2-fluorobiphenyl (Surrogate) | % | - | 95 |
| | | d14-p-terphenyl (Surrogate) | % | - | 99 |
| LB263998.001 | | Naphthalene | 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 |
|---|---|---|---|---|---|
| LB263998.001 | | 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) | % | - | 110 |
| | | 2-fluorobiphenyl (Surrogate) | % | - | 92 |
| | | d14-p-terphenyl (Surrogate) | % | - | 96 |
| LB263999.001 | | 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) | % | - | 127 |
| | | 2-fluorobiphenyl (Surrogate) | % | - | 115 |
| | | d14-p-terphenyl (Surrogate) | % | - | 117 |

## PAH (Polynuclear Aromatic Hydrocarbons) in Water

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

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB263924.001 | | Naphthalene | µg/L | 0.1 | <0.1 |
| | | 2-methylnaphthalene | µg/L | 0.1 | <0.1 |
| | | 1-methylnaphthalene | µg/L | 0.1 | <0.1 |
| | | Acenaphthylene | µg/L | 0.1 | <0.1 |
| | | Acenaphthene | µg/L | 0.1 | <0.1 |
| | | Fluorene | µg/L | 0.1 | <0.1 |
| | | Phenanthrene | µg/L | 0.1 | <0.1 |
| | | Anthracene | µg/L | 0.1 | <0.1 |
| | | Fluoranthene | µg/L | 0.1 | <0.1 |
| | | Pyrene | µg/L | 0.1 | <0.1 |
| | | Benzo(a)anthracene | µg/L | 0.1 | <0.1 |
| | | Chrysene | µg/L | 0.1 | <0.1 |
| | | Benzo(a)pyrene | µg/L | 0.1 | <0.1 |
| | | Indeno(1,2,3-cd)pyrene | µg/L | 0.1 | <0.1 |
| | | Dibenzo(ah)anthracene | µg/L | 0.1 | <0.1 |
| | | Benzo(ghi)perylene | µg/L | 0.1 | <0.1 |
| | Surrogates | d5-nitrobenzene (Surrogate) | % | - | 56 |
| | | 2-fluorobiphenyl (Surrogate) | % | - | 68 |
| | | d14-p-terphenyl (Surrogate) | % | - | 82 |

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

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

## PCBs in Soil

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

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB263988.001 | | Arochlor 1016 | mg/kg | 0.2 | <0.2 |
| | | Arochlor 1221 | mg/kg | 0.2 | <0.2 |
| | | Arochlor 1232 | mg/kg | 0.2 | <0.2 |
| | | Arochlor 1242 | mg/kg | 0.2 | <0.2 |
| | | Arochlor 1248 | mg/kg | 0.2 | <0.2 |
| | | Arochlor 1254 | mg/kg | 0.2 | <0.2 |
| | | Arochlor 1260 | mg/kg | 0.2 | <0.2 |
| | | Arochlor 1262 | mg/kg | 0.2 | <0.2 |
| | | Arochlor 1268 | mg/kg | 0.2 | <0.2 |
| | | Total PCBs (Arochlors) | mg/kg | 1 | <1 |
| | Surrogates | TCMX (Surrogate) | % | - | 98 |
| LB263989.001 | | Arochlor 1016 | mg/kg | 0.2 | <0.2 |
| | | Arochlor 1221 | mg/kg | 0.2 | <0.2 |
| | | Arochlor 1232 | mg/kg | 0.2 | <0.2 |
| | | Arochlor 1242 | mg/kg | 0.2 | <0.2 |
| | | Arochlor 1248 | mg/kg | 0.2 | <0.2 |
| | | Arochlor 1254 | mg/kg | 0.2 | <0.2 |
| | | Arochlor 1260 | mg/kg | 0.2 | <0.2 |
| | | Arochlor 1262 | mg/kg | 0.2 | <0.2 |
| | | Arochlor 1268 | mg/kg | 0.2 | <0.2 |
| | | Total PCBs (Arochlors) | mg/kg | 1 | <1 |
| | Surrogates | TCMX (Surrogate) | % | - | 98 |
| LB263997.001 | | Arochlor 1016 | mg/kg | 0.2 | <0.2 |
| | | Arochlor 1221 | mg/kg | 0.2 | <0.2 |
| | | Arochlor 1232 | mg/kg | 0.2 | <0.2 |
| | | Arochlor 1242 | mg/kg | 0.2 | <0.2 |
| | | Arochlor 1248 | mg/kg | 0.2 | <0.2 |
| | | Arochlor 1254 | mg/kg | 0.2 | <0.2 |
| | | Arochlor 1260 | mg/kg | 0.2 | <0.2 |
| | | Arochlor 1262 | mg/kg | 0.2 | <0.2 |
| | | Arochlor 1268 | mg/kg | 0.2 | <0.2 |
| | | Total PCBs (Arochlors) | mg/kg | 1 | <1 |
| | Surrogates | TCMX (Surrogate) | % | - | 99 |
| LB263998.001 | | Arochlor 1016 | mg/kg | 0.2 | <0.2 |
| | | Arochlor 1221 | mg/kg | 0.2 | <0.2 |
| | | Arochlor 1232 | mg/kg | 0.2 | <0.2 |
| | | Arochlor 1242 | mg/kg | 0.2 | <0.2 |
| | | Arochlor 1248 | mg/kg | 0.2 | <0.2 |
| | | Arochlor 1254 | mg/kg | 0.2 | <0.2 |
| | | Arochlor 1260 | mg/kg | 0.2 | <0.2 |
| | | Arochlor 1262 | mg/kg | 0.2 | <0.2 |
| | | Arochlor 1268 | mg/kg | 0.2 | <0.2 |
| | | Total PCBs (Arochlors) | mg/kg | 1 | <1 |
| | Surrogates | TCMX (Surrogate) | % | - | 106 |
| LB263999.001 | | Arochlor 1016 | mg/kg | 0.2 | <0.2 |
| | | Arochlor 1221 | mg/kg | 0.2 | <0.2 |
| | | Arochlor 1232 | mg/kg | 0.2 | <0.2 |
| | | Arochlor 1242 | mg/kg | 0.2 | <0.2 |
| | | Arochlor 1248 | mg/kg | 0.2 | <0.2 |
| | | Arochlor 1254 | mg/kg | 0.2 | <0.2 |
| | | Arochlor 1260 | mg/kg | 0.2 | <0.2 |
| | | Arochlor 1262 | mg/kg | 0.2 | <0.2 |
| | | Arochlor 1268 | mg/kg | 0.2 | <0.2 |
| | | Total PCBs (Arochlors) | mg/kg | 1 | <1 |
| | Surrogates | TCMX (Surrogate) | % | - | 105 |

## PCBs in Water

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

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB263924.001 | Arochlor 1016 | µg/L | 1 | <1 |
| | Arochlor 1221 | µg/L | 1 | <1 |
| | Arochlor 1232 | µg/L | 1 | <1 |

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

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

### PCBs in Water (continued)

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

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB263924.001 | Arochlor 1242 | µg/L | 1 | <1 |
| | Arochlor 1248 | µg/L | 1 | <1 |
| | Arochlor 1254 | µg/L | 1 | <1 |
| | Arochlor 1260 | µg/L | 1 | <1 |
| | Arochlor 1262 | µg/L | 1 | <1 |
| | Arochlor 1268 | µg/L | 1 | <1 |

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

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

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB264247.001 | 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 |
| LB264249.001 | 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 |
| LB264250.001 | 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 |
| LB264253.001 | 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 |
| LB264254.001 | Arsenic, As | mg/kg | 1 | <1 |
| | Cadmium, Cd | mg/kg | 0.3 | <0.3 |
| | Chromium, Cr | mg/kg | 0.5 | <0.5 |
| | Copper, Cu | mg/kg | 0.5 | <0.5 |
| | Nickel, Ni | mg/kg | 0.5 | <0.5 |
| | Lead, Pb | mg/kg | 1 | <1 |
| | Zinc, Zn | mg/kg | 2 | <2.0 |

### Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB263915.001 | Arsenic | µg/L | 1 | <1 |
| | Cadmium | µg/L | 0.1 | <0.1 |
| | Chromium | µg/L | 1 | <1 |
| | Copper | µg/L | 1 | <1 |
| | Lead | µg/L | 1 | <1 |
| | Nickel | µg/L | 1 | <1 |
| | Zinc | µg/L | 5 | <5 |

### TRH (Total Recoverable Hydrocarbons) in Soil

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

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB263988.001 | 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 |

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.

### TRH (Total Recoverable Hydrocarbons) in Soil (continued)

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

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB263989.001 | 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 |
| LB263997.001 | 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 |
| LB263998.001 | 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 |
| LB263999.001 | TRH C10-C14 | mg/kg | 20 | <20 |
| | TRH C15-C28 | mg/kg | 45 | <45 |
| | TRH C29-C36 | mg/kg | 45 | <45 |
| | TRH C37-C40 | mg/kg | 100 | <100 |
| | TRH C10-C36 Total | mg/kg | 110 | <110 |

### TRH (Total Recoverable Hydrocarbons) in Water

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

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB263924.001 | TRH C10-C14 | µg/L | 50 | <50 |
| | TRH C15-C28 | µg/L | 200 | <200 |
| | TRH C29-C36 | µg/L | 200 | <200 |
| | TRH C37-C40 | µg/L | 200 | <200 |

### VOC's in Soil

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

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB264031.001 | 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) | % | - | 130 |
| | | d8-toluene (Surrogate) | % | - | 101 |
| | | Bromofluorobenzene (Surrogate) | % | - | 111 |
| | Totals | Total BTEX* | mg/kg | 0.6 | <0.6 |
| LB264032.001 | 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) | % | - | 93 |
| | | d8-toluene (Surrogate) | % | - | 93 |
| | | Bromofluorobenzene (Surrogate) | % | - | 81 |
| | Totals | Total BTEX* | mg/kg | 0.6 | <0.6 |
| LB264033.001 | 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) | % | - | 95 |
| | | d8-toluene (Surrogate) | % | - | 91 |
| | | Bromofluorobenzene (Surrogate) | % | - | 87 |
| | Totals | Total BTEX* | mg/kg | 0.6 | <0.6 |
| LB264034.001 | Monocyclic Aromatic Hydrocarbons | Benzene | mg/kg | 0.1 | <0.1 |
| | | Toluene | 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)-[ENV]AN433

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB264034.001 | Monocyclic Aromatic Hydrocarbons | Ethylbenzene | mg/kg | 0.1 | <0.1 |
| | | m/p-xylene | mg/kg | 0.2 | <0.2 |
| | | o-xylene | mg/kg | 0.1 | <0.1 |
| | Polycyclic VOCs | Naphthalene (VOC)* | mg/kg | 0.1 | <0.1 |
| | Surrogates | d4-1,2-dichloroethane (Surrogate) | % | - | 88 |
| | | d8-toluene (Surrogate) | % | - | 85 |
| | | Bromofluorobenzene (Surrogate) | % | - | 83 |
| | Totals | Total BTEX* | mg/kg | 0.6 | <0.6 |
| LB264035.001 | 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) | % | - | 109 |
| | | d8-toluene (Surrogate) | % | - | 112 |
| | | Bromofluorobenzene (Surrogate) | % | - | 114 |
| | Totals | Total BTEX* | mg/kg | 0.6 | <0.6 |

## VOCs in Water

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

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB264092.001 | Monocyclic Aromatic Hydrocarbons | Benzene | µg/L | 0.5 | <0.5 |
| | | Toluene | µg/L | 0.5 | <0.5 |
| | | Ethylbenzene | µg/L | 0.5 | <0.5 |
| | | m/p-xylene | µg/L | 1 | <1 |
| | | o-xylene | µg/L | 0.5 | <0.5 |
| | Polycyclic VOCs | Naphthalene (VOC)* | µg/L | 0.5 | <0.5 |
| | Surrogates | d4-1,2-dichloroethane (Surrogate) | % | - | 95 |
| | | d8-toluene (Surrogate) | % | - | 98 |
| | | Bromofluorobenzene (Surrogate) | % | - | 99 |

## Volatile Petroleum Hydrocarbons in Soil

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

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB264031.001 | | TRH C6-C9 | mg/kg | 20 | <20 |
| | Surrogates | d4-1,2-dichloroethane (Surrogate) | % | - | 130 |
| LB264032.001 | | TRH C6-C9 | mg/kg | 20 | <20 |
| | Surrogates | d4-1,2-dichloroethane (Surrogate) | % | - | 93 |
| LB264033.001 | | TRH C6-C9 | mg/kg | 20 | <20 |
| | Surrogates | d4-1,2-dichloroethane (Surrogate) | % | - | 95 |
| LB264034.001 | | TRH C6-C9 | mg/kg | 20 | <20 |
| | Surrogates | d4-1,2-dichloroethane (Surrogate) | % | - | 88 |
| LB264035.001 | | TRH C6-C9 | mg/kg | 20 | <20 |
| | Surrogates | d4-1,2-dichloroethane (Surrogate) | % | - | 109 |

## Volatile Petroleum Hydrocarbons in Water

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

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB264092.001 | | TRH C6-C9 | µg/L | 40 | <40 |
| | Surrogates | d4-1,2-dichloroethane (Surrogate) | % | - | 95 |
| | | d8-toluene (Surrogate) | % | - | 98 |
| | | Bromofluorobenzene (Surrogate) | % | - | 99 |

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

## Mercury (dissolved) in Water

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

| Original | Duplicate | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|
| SE239071.006 | LB263955.014 | Mercury | µg/L | 0.0001 | <0.0001 | <0.0001 | 200 | 195 |
| SE239071.009 | LB263955.018 | Mercury | µg/L | 0.0001 | <0.0001 | <0.0001 | 200 | 18 |

## Mercury in Soil

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

| Original | Duplicate | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|
| SE239041.010 | LB264256.014 | Mercury | mg/kg | 0.05 | <0.05 | <0.05 | 200 | 0 |
| SE239041.019 | LB264256.024 | Mercury | mg/kg | 0.05 | <0.05 | <0.05 | 191 | 0 |
| SE239041.029 | LB264257.014 | Mercury | mg/kg | 0.05 | <0.05 | <0.05 | 200 | 0 |
| SE239041.038 | LB264257.024 | Mercury | mg/kg | 0.05 | <0.05 | <0.05 | 200 | 0 |
| SE239041.048 | LB264259.014 | Mercury | mg/kg | 0.05 | <0.05 | <0.05 | 200 | 0 |
| SE239041.057 | LB264259.024 | Mercury | mg/kg | 0.05 | <0.05 | <0.05 | 200 | 0 |
| SE239041.067 | LB264260.014 | Mercury | mg/kg | 0.05 | <0.05 | <0.05 | 200 | 0 |
| SE239041.076 | LB264260.024 | Mercury | mg/kg | 0.05 | <0.05 | <0.05 | 180 | 0 |
| SE239041.086 | LB264261.014 | Mercury | mg/kg | 0.05 | <0.05 | <0.05 | 200 | 0 |
| SE239041.098 | LB264261.024 | Mercury | mg/kg | 0.05 | <0.05 | <0.05 | 200 | 0 |

## Moisture Content

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

| Original | Duplicate | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|
| SE239041.010 | LB264044.011 | % Moisture | %w/w | 1 | 13.5 | 13.8 | 37 | 2 |
| SE239041.019 | LB264044.021 | % Moisture | %w/w | 1 | 20.2 | 21.6 | 35 | 6 |
| SE239041.029 | LB264048.011 | % Moisture | %w/w | 1 | 20.6 | 21.2 | 35 | 3 |
| SE239041.038 | LB264048.021 | % Moisture | %w/w | 1 | 16.4 | 17.3 | 36 | 5 |
| SE239041.048 | LB264049.011 | % Moisture | %w/w | 1 | 20.9 | 21.9 | 35 | 4 |
| SE239041.067 | LB264050.011 | % Moisture | %w/w | 1 | 27.1 | 25.4 | 34 | 6 |
| SE239041.076 | LB264050.021 | % Moisture | %w/w | 1 | 23.0 | 22.9 | 34 | 1 |
| SE239041.086 | LB264052.011 | % Moisture | %w/w | 1 | 23.2 | 23.0 | 34 | 1 |
| SE239041.098 | LB264052.021 | % Moisture | %w/w | 1 | <1 | <1 | 200 | 0 |

## OC Pesticides in Soil

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE239041.010 | LB263988.014 | | Alpha BHC | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Hexachlorobenzene (HCB) | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Beta BHC | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Lindane (gamma BHC) | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Delta BHC | 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 |
| | | | Isodrin | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Heptachlor epoxide | mg/kg | 0.1 | <0.1 | <0.1 | 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 |
| | | | Alpha Endosulfan | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | o,p'-DDE* | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | p,p'-DDE | mg/kg | 0.1 | 0.4 | 0.4 | 55 | 19 |
| | | | Dieldrin | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Endrin | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Beta Endosulfan | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | o,p'-DDD* | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | p,p'-DDD | mg/kg | 0.1 | <0.1 | <0.1 | 192 | 0 |
| | | | Endrin aldehyde | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Endosulfan sulphate | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | o,p'-DDT* | mg/kg | 0.1 | <0.1 | <0.1 | 192 | 0 |
| | | | p,p'-DDT | mg/kg | 0.1 | <0.1 | <0.1 | 183 | 0 |
| | | | Endrin ketone | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Methoxychlor | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Mirex | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | trans-Nonachlor | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Total CLP OC Pesticides | mg/kg | 1 | <1 | <1 | 200 | 0 |
| | | | Total OC VIC EPA | mg/kg | 1 | <1 | <1 | 200 | 0 |
| | | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | mg/kg | - | 0.16 | 0.16 | 30 | 2 |
| SE239041.019 | LB263988.024 | | Alpha BHC | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE239041.019 | LB263988.024 | | Hexachlorobenzene (HCB) | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Beta BHC | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Lindane (gamma BHC) | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Delta BHC | 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 |
| | | | Isodrin | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Heptachlor epoxide | mg/kg | 0.1 | <0.1 | <0.1 | 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 |
| | | | Alpha Endosulfan | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | o,p'-DDE* | 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 |
| | | | Beta Endosulfan | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | o,p'-DDD* | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | p,p'-DDD | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Endrin aldehyde | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Endosulfan sulphate | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | o,p'-DDT* | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | p,p'-DDT | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Endrin ketone | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Methoxychlor | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Mirex | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | trans-Nonachlor | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Total CLP OC Pesticides | mg/kg | 1 | <1 | <1 | 200 | 0 |
| | | | Total OC VIC EPA | mg/kg | 1 | <1 | <1 | 200 | 0 |
| | | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | mg/kg | - | 0.14 | 0.15 | 30 | 4 |
| SE239041.029 | LB263989.014 | | Alpha BHC | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Hexachlorobenzene (HCB) | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Beta BHC | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Lindane (gamma BHC) | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Delta BHC | 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 |
| | | | Isodrin | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Heptachlor epoxide | mg/kg | 0.1 | <0.1 | <0.1 | 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 |
| | | | Alpha Endosulfan | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | o,p'-DDE* | 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 |
| | | | Beta Endosulfan | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | o,p'-DDD* | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | p,p'-DDD | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Endrin aldehyde | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Endosulfan sulphate | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | o,p'-DDT* | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | p,p'-DDT | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Endrin ketone | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Methoxychlor | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Mirex | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | trans-Nonachlor | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Total CLP OC Pesticides | mg/kg | 1 | <1 | <1 | 200 | 0 |
| | | | Total OC VIC EPA | mg/kg | 1 | <1 | <1 | 200 | 0 |
| | | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | mg/kg | - | 0.16 | 0.17 | 30 | 5 |
| SE239041.038 | LB263989.024 | | Alpha BHC | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Hexachlorobenzene (HCB) | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE239041.038 | LB263989.024 | | Beta BHC | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Lindane (gamma BHC) | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Delta BHC | 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 |
| | | | Isodrin | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Heptachlor epoxide | mg/kg | 0.1 | <0.1 | <0.1 | 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 |
| | | | Alpha Endosulfan | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | o,p'-DDE* | 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 |
| | | | Beta Endosulfan | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | o,p'-DDD* | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | p,p'-DDD | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Endrin aldehyde | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Endosulfan sulphate | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | o,p'-DDT* | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | p,p'-DDT | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Endrin ketone | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Methoxychlor | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Mirex | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | trans-Nonachlor | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Total CLP OC Pesticides | mg/kg | 1 | <1 | <1 | 200 | 0 |
| | | | Total OC VIC EPA | mg/kg | 1 | <1 | <1 | 200 | 0 |
| | | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | mg/kg | - | 0.16 | 0.16 | 30 | 4 |
| SE239041.048 | LB263997.014 | | Alpha BHC | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Hexachlorobenzene (HCB) | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Beta BHC | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Lindane (gamma BHC) | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Delta BHC | 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 |
| | | | Isodrin | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Heptachlor epoxide | mg/kg | 0.1 | <0.1 | <0.1 | 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 |
| | | | Alpha Endosulfan | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | o,p'-DDE* | 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 |
| | | | Beta Endosulfan | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | o,p'-DDD* | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | p,p'-DDD | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Endrin aldehyde | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Endosulfan sulphate | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | o,p'-DDT* | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | p,p'-DDT | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Endrin ketone | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Methoxychlor | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Mirex | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | trans-Nonachlor | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Total CLP OC Pesticides | mg/kg | 1 | <1 | <1 | 200 | 0 |
| | | | Total OC VIC EPA | mg/kg | 1 | <1 | <1 | 200 | 0 |
| | | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | mg/kg | - | 0.16 | 0.17 | 30 | 1 |
| SE239041.057 | LB263997.024 | | Alpha BHC | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Hexachlorobenzene (HCB) | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Beta BHC | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE239041.057 | LB263997.024 | | Lindane (gamma BHC) | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Delta BHC | 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 |
| | | | Isodrin | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Heptachlor epoxide | mg/kg | 0.1 | <0.1 | <0.1 | 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 |
| | | | Alpha Endosulfan | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | o,p'-DDE* | 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 |
| | | | Beta Endosulfan | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | o,p'-DDD* | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | p,p'-DDD | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Endrin aldehyde | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Endosulfan sulphate | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | o,p'-DDT* | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | p,p'-DDT | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Endrin ketone | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Methoxychlor | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Mirex | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | trans-Nonachlor | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Total CLP OC Pesticides | mg/kg | 1 | <1 | <1 | 200 | 0 |
| | | | Total OC VIC EPA | mg/kg | 1 | <1 | <1 | 200 | 0 |
| | | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | mg/kg | - | 0.16 | 0.16 | 30 | 0 |
| SE239041.067 | LB263998.014 | | Alpha BHC | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Hexachlorobenzene (HCB) | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Beta BHC | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Lindane (gamma BHC) | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Delta BHC | 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 |
| | | | Isodrin | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Heptachlor epoxide | mg/kg | 0.1 | <0.1 | <0.1 | 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 |
| | | | Alpha Endosulfan | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | o,p'-DDE* | 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 |
| | | | Beta Endosulfan | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | o,p'-DDD* | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | p,p'-DDD | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Endrin aldehyde | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Endosulfan sulphate | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | o,p'-DDT* | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | p,p'-DDT | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Endrin ketone | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Methoxychlor | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Mirex | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | trans-Nonachlor | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Total CLP OC Pesticides | mg/kg | 1 | <1 | <1 | 200 | 0 |
| | | | Total OC VIC EPA | mg/kg | 1 | <1 | <1 | 200 | 0 |
| | | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | mg/kg | - | 0.16 | 0.17 | 30 | 5 |
| SE239041.076 | LB263998.024 | | Alpha BHC | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Hexachlorobenzene (HCB) | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Beta BHC | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Lindane (gamma BHC) | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE239041.076 | LB263998.024 | | Delta BHC | 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 |
| | | | Isodrin | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Heptachlor epoxide | mg/kg | 0.1 | <0.1 | <0.1 | 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 |
| | | | Alpha Endosulfan | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | o,p'-DDE* | 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 |
| | | | Beta Endosulfan | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | o,p'-DDD* | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | p,p'-DDD | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Endrin aldehyde | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Endosulfan sulphate | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | o,p'-DDT* | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | p,p'-DDT | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Endrin ketone | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Methoxychlor | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Mirex | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | trans-Nonachlor | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Total CLP OC Pesticides | mg/kg | 1 | <1 | <1 | 200 | 0 |
| | | | Total OC VIC EPA | mg/kg | 1 | <1 | <1 | 200 | 0 |
| | | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | mg/kg | - | 0.16 | 0.16 | 30 | 2 |
| SE239041.086 | LB263999.014 | | Alpha BHC | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Hexachlorobenzene (HCB) | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Beta BHC | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Lindane (gamma BHC) | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Delta BHC | 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 |
| | | | Isodrin | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Heptachlor epoxide | mg/kg | 0.1 | <0.1 | <0.1 | 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 |
| | | | Alpha Endosulfan | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | o,p'-DDE* | 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 |
| | | | Beta Endosulfan | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | o,p'-DDD* | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | p,p'-DDD | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Endrin aldehyde | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Endosulfan sulphate | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | o,p'-DDT* | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | p,p'-DDT | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Endrin ketone | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Methoxychlor | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Mirex | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | trans-Nonachlor | 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 | - | 0.17 | 0.18 | 30 | 5 |
| SE239041.094 | LB263999.026 | | Alpha BHC | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Hexachlorobenzene (HCB) | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Beta BHC | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Lindane (gamma BHC) | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Delta BHC | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

## OC Pesticides in Soil (continued)

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE239041.094 | LB263999.026 | | Heptachlor | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Aldrin | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Isodrin | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Heptachlor epoxide | mg/kg | 0.1 | <0.1 | <0.1 | 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 |
| | | | Alpha Endosulfan | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | o,p'-DDE* | 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 |
| | | | Beta Endosulfan | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | o,p'-DDD* | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | p,p'-DDD | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Endrin aldehyde | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Endosulfan sulphate | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | o,p'-DDT* | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | p,p'-DDT | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Endrin ketone | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Methoxychlor | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Mirex | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | trans-Nonachlor | 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 | - | 0.17 | 0.17 | 30 | 0 |

## OP Pesticides in Soil

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE239041.010 | LB263988.014 | | Azinphos-methyl (Guthion) | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Bromophos Ethyl | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Chlorpyrifos (Chlorpyrifos Ethyl) | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Diazinon (Dimpylate) | mg/kg | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | Dichlorvos | mg/kg | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | Dimethoate | mg/kg | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | Ethion | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Fenitrothion | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Malathion | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Methidathion | mg/kg | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | Parathion-ethyl (Parathion) | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Total OP Pesticides* | mg/kg | 1.7 | <1.7 | <1.7 | 200 | 0 |
| | | Surrogates | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | 30 | 1 |
| | | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | 30 | 0 |
| SE239041.019 | LB263988.024 | | Azinphos-methyl (Guthion) | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Bromophos Ethyl | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Chlorpyrifos (Chlorpyrifos Ethyl) | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Diazinon (Dimpylate) | mg/kg | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | Dichlorvos | mg/kg | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | Dimethoate | mg/kg | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | Ethion | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Fenitrothion | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Malathion | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Methidathion | mg/kg | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | Parathion-ethyl (Parathion) | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Total OP Pesticides* | mg/kg | 1.7 | <1.7 | <1.7 | 200 | 0 |
| | | Surrogates | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | 30 | 1 |
| | | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | 30 | 1 |
| SE239041.029 | LB263989.014 | | Azinphos-methyl (Guthion) | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Bromophos Ethyl | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Chlorpyrifos (Chlorpyrifos Ethyl) | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Diazinon (Dimpylate) | mg/kg | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | Dichlorvos | mg/kg | 0.5 | <0.5 | <0.5 | 200 | 0 |

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE239041.029 | LB263989.014 | | Dimethoate | mg/kg | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | Ethion | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Fenitrothion | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Malathion | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Methidathion | mg/kg | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | Parathion-ethyl (Parathion) | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Total OP Pesticides* | mg/kg | 1.7 | <1.7 | <1.7 | 200 | 0 |
| | | Surrogates | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | 30 | 1 |
| | | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | 30 | 0 |
| SE239041.038 | LB263989.024 | | Azinphos-methyl (Guthion) | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Bromophos Ethyl | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Chlorpyrifos (Chlorpyrifos Ethyl) | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Diazinon (Dimpylate) | mg/kg | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | Dichlorvos | mg/kg | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | Dimethoate | mg/kg | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | Ethion | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Fenitrothion | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Malathion | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Methidathion | mg/kg | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | Parathion-ethyl (Parathion) | 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 | 3 |
| SE239041.048 | LB263997.014 | | Azinphos-methyl (Guthion) | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Bromophos Ethyl | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Chlorpyrifos (Chlorpyrifos Ethyl) | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Diazinon (Dimpylate) | mg/kg | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | Dichlorvos | mg/kg | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | Dimethoate | mg/kg | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | Ethion | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Fenitrothion | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Malathion | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Methidathion | mg/kg | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | Parathion-ethyl (Parathion) | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Total OP Pesticides* | mg/kg | 1.7 | <1.7 | <1.7 | 200 | 0 |
| | | Surrogates | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | 30 | 1 |
| | | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | 30 | 0 |
| SE239041.057 | LB263997.024 | | Azinphos-methyl (Guthion) | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Bromophos Ethyl | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Chlorpyrifos (Chlorpyrifos Ethyl) | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Diazinon (Dimpylate) | mg/kg | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | Dichlorvos | mg/kg | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | Dimethoate | mg/kg | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | Ethion | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Fenitrothion | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Malathion | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Methidathion | mg/kg | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | Parathion-ethyl (Parathion) | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Total OP Pesticides* | mg/kg | 1.7 | <1.7 | <1.7 | 200 | 0 |
| | | Surrogates | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | 30 | 1 |
| | | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | 30 | 2 |
| SE239041.067 | LB263998.014 | | Azinphos-methyl (Guthion) | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Bromophos Ethyl | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Chlorpyrifos (Chlorpyrifos Ethyl) | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Diazinon (Dimpylate) | mg/kg | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | Dichlorvos | mg/kg | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | Dimethoate | mg/kg | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | Ethion | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Fenitrothion | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Malathion | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Methidathion | mg/kg | 0.5 | <0.5 | <0.5 | 200 | 0 |

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE239041.067 | LB263998.014 | | Parathion-ethyl (Parathion) | 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 | 6 |
| | | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | 30 | 6 |
| SE239041.076 | LB263998.024 | | Azinphos-methyl (Guthion) | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Bromophos Ethyl | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Chlorpyrifos (Chlorpyrifos Ethyl) | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Diazinon (Dimpylate) | mg/kg | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | Dichlorvos | mg/kg | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | Dimethoate | mg/kg | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | Ethion | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Fenitrothion | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Malathion | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Methidathion | mg/kg | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | Parathion-ethyl (Parathion) | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Total OP Pesticides* | mg/kg | 1.7 | <1.7 | <1.7 | 200 | 0 |
| | | Surrogates | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.4 | 0.5 | 30 | 8 |
| | | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.4 | 0.5 | 30 | 6 |
| SE239041.086 | LB263999.014 | | Azinphos-methyl (Guthion) | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Bromophos Ethyl | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Chlorpyrifos (Chlorpyrifos Ethyl) | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Diazinon (Dimpylate) | mg/kg | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | Dichlorvos | mg/kg | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | Dimethoate | mg/kg | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | Ethion | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Fenitrothion | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Malathion | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Methidathion | mg/kg | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | Parathion-ethyl (Parathion) | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Total OP Pesticides* | mg/kg | 1.7 | <1.7 | <1.7 | 200 | 0 |
| | | Surrogates | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.4 | 0.5 | 30 | 4 |
| | | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | 30 | 3 |
| SE239041.094 | LB263999.027 | | Azinphos-methyl (Guthion) | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Bromophos Ethyl | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Chlorpyrifos (Chlorpyrifos Ethyl) | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Diazinon (Dimpylate) | mg/kg | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | Dichlorvos | mg/kg | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | Dimethoate | mg/kg | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | Ethion | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Fenitrothion | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Malathion | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Methidathion | mg/kg | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | Parathion-ethyl (Parathion) | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Total OP Pesticides* | mg/kg | 1.7 | <1.7 | <1.7 | 200 | 0 |
| | | Surrogates | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | 30 | 1 |
| | | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | 30 | 2 |

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

| Original | Duplicate | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|
| SE239041.010 | LB263988.014 | 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 |

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE239041.010 | LB263988.014 | | 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/2* | mg/kg | 0.2 | <0.2 | <0.2 | 175 | 0 |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=LOR* | mg/kg | 0.3 | <0.3 | <0.3 | 134 | 0 |
| | | | Total PAH (18) | mg/kg | 0.8 | <0.8 | <0.8 | 200 | 0 |
| | | Surrogates | d5-nitrobenzene (Surrogate) | mg/kg | - | 0.5 | 0.5 | 30 | 1 |
| | | | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | 30 | 1 |
| | | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | 30 | 0 |
| SE239041.019 | LB263988.024 | | Naphthalene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | 2-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | 1-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Acenaphthylene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Acenaphthene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Fluorene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Phenanthrene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Anthracene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Fluoranthene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Pyrene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Benzo(a)anthracene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Chrysene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Benzo(b&j)fluoranthene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Benzo(k)fluoranthene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Benzo(a)pyrene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Indeno(1,2,3-cd)pyrene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Dibenzo(ah)anthracene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Benzo(ghi)perylene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=0* | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=LOR/2* | mg/kg | 0.2 | <0.2 | <0.2 | 175 | 0 |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=LOR* | mg/kg | 0.3 | <0.3 | <0.3 | 134 | 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 | 1 |
| | | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | 30 | 1 |
| SE239041.029 | LB263989.014 | | 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/2* | mg/kg | 0.2 | <0.2 | <0.2 | 175 | 0 |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=LOR* | mg/kg | 0.3 | <0.3 | <0.3 | 134 | 0 |
| | | | Total PAH (18) | mg/kg | 0.8 | <0.8 | <0.8 | 200 | 0 |
| | | Surrogates | d5-nitrobenzene (Surrogate) | mg/kg | - | 0.5 | 0.5 | 30 | 1 |

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE239041.029 | LB263989.014 | Surrogates | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | 30 | 1 |
| | | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | 30 | 0 |
| SE239041.038 | LB263989.024 | | Naphthalene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | 2-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | 1-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Acenaphthylene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Acenaphthene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Fluorene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Phenanthrene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Anthracene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Fluoranthene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Pyrene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Benzo(a)anthracene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Chrysene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Benzo(b&j)fluoranthene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Benzo(k)fluoranthene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Benzo(a)pyrene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Indeno(1,2,3-cd)pyrene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Dibenzo(ah)anthracene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Benzo(ghi)perylene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=0* | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=LOR/2* | mg/kg | 0.2 | <0.2 | <0.2 | 175 | 0 |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=LOR* | mg/kg | 0.3 | <0.3 | <0.3 | 134 | 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 | 3 |
| SE239041.048 | LB263997.014 | | 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/2* | mg/kg | 0.2 | <0.2 | <0.2 | 175 | 0 |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=LOR* | mg/kg | 0.3 | <0.3 | <0.3 | 134 | 0 |
| | | | Total PAH (18) | mg/kg | 0.8 | <0.8 | <0.8 | 200 | 0 |
| | | Surrogates | d5-nitrobenzene (Surrogate) | mg/kg | - | 0.5 | 0.5 | 30 | 0 |
| | | | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | 30 | 1 |
| | | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | 30 | 0 |
| SE239041.057 | LB263997.024 | | Naphthalene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | 2-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | 1-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Acenaphthylene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Acenaphthene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Fluorene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Phenanthrene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Anthracene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Fluoranthene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE239041.057 | LB263997.024 | | 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/2* | mg/kg | 0.2 | <0.2 | <0.2 | 175 | 0 |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=LOR* | mg/kg | 0.3 | <0.3 | <0.3 | 134 | 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 | 1 |
| | | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | 30 | 2 |
| SE239041.067 | LB263998.014 | | 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/2* | mg/kg | 0.2 | <0.2 | <0.2 | 175 | 0 |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=LOR* | mg/kg | 0.3 | <0.3 | <0.3 | 134 | 0 |
| | | | Total PAH (18) | mg/kg | 0.8 | <0.8 | <0.8 | 200 | 0 |
| | | Surrogates | d5-nitrobenzene (Surrogate) | mg/kg | - | 0.6 | 0.5 | 30 | 4 |
| | | | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | 30 | 6 |
| | | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | 30 | 6 |
| SE239041.076 | LB263998.024 | | Naphthalene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | 2-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | 1-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Acenaphthylene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Acenaphthene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Fluorene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Phenanthrene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Anthracene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Fluoranthene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Pyrene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Benzo(a)anthracene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Chrysene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Benzo(b&j)fluoranthene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Benzo(k)fluoranthene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Benzo(a)pyrene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Indeno(1,2,3-cd)pyrene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Dibenzo(ah)anthracene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Benzo(ghi)perylene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=0* | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=LOR/2* | mg/kg | 0.2 | <0.2 | <0.2 | 175 | 0 |

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

## PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE239041.076 | LB263998.024 | | Carcinogenic PAHs, BaP TEQ <LOR=LOR* | mg/kg | 0.3 | <0.3 | <0.3 | 134 | 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 | 4 |
| | | | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.4 | 0.5 | 30 | 8 |
| | | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.4 | 0.5 | 30 | 6 |
| SE239041.086 | LB263999.014 | | 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/2* | mg/kg | 0.2 | <0.2 | <0.2 | 175 | 0 |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=LOR* | mg/kg | 0.3 | <0.3 | <0.3 | 134 | 0 |
| | | | Total PAH (18) | mg/kg | 0.8 | <0.8 | <0.8 | 200 | 0 |
| | | Surrogates | d5-nitrobenzene (Surrogate) | mg/kg | - | 0.5 | 0.5 | 30 | 0 |
| | | | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.4 | 0.5 | 30 | 4 |
| | | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | 30 | 3 |
| SE239041.094 | LB263999.027 | | 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/2* | mg/kg | 0.2 | <0.2 | <0.2 | 175 | 0 |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=LOR* | mg/kg | 0.3 | <0.3 | <0.3 | 134 | 0 |
| | | | Total PAH (18) | mg/kg | 0.8 | <0.8 | <0.8 | 200 | 0 |
| | | Surrogates | d5-nitrobenzene (Surrogate) | mg/kg | - | 0.6 | 0.6 | 30 | 1 |
| | | | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | 30 | 1 |
| | | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | 30 | 2 |

## PCBs in Soil

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

| Original | Duplicate | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|
| SE239041.010 | LB263988.014 | 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 |

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE239041.010 | LB263988.014 | | Arochlor 1242 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1248 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1254 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1260 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1262 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1268 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Total PCBs (Arochlors) | mg/kg | 1 | <1 | <1 | 200 | 0 |
| | | Surrogates | TCMX (Surrogate) | mg/kg | - | 0 | 0 | 30 | 2 |
| SE239041.019 | LB263988.024 | | Arochlor 1016 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1221 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1232 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1242 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1248 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1254 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1260 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1262 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1268 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Total PCBs (Arochlors) | mg/kg | 1 | <1 | <1 | 200 | 0 |
| | | Surrogates | TCMX (Surrogate) | mg/kg | - | 0 | 0 | 30 | 4 |
| SE239041.029 | LB263989.014 | | Arochlor 1016 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1221 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1232 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1242 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1248 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1254 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1260 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1262 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1268 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Total PCBs (Arochlors) | mg/kg | 1 | <1 | <1 | 200 | 0 |
| | | Surrogates | TCMX (Surrogate) | mg/kg | - | 0 | 0 | 30 | 5 |
| SE239041.038 | LB263989.024 | | Arochlor 1016 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1221 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1232 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1242 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1248 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1254 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1260 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1262 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1268 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Total PCBs (Arochlors) | mg/kg | 1 | <1 | <1 | 200 | 0 |
| | | Surrogates | TCMX (Surrogate) | mg/kg | - | 0 | 0 | 30 | 4 |
| SE239041.048 | LB263997.014 | | Arochlor 1016 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1221 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1232 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1242 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1248 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1254 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1260 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1262 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1268 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Total PCBs (Arochlors) | mg/kg | 1 | <1 | <1 | 200 | 0 |
| | | Surrogates | TCMX (Surrogate) | mg/kg | - | 0 | 0 | 30 | 1 |
| SE239041.057 | LB263997.024 | | Arochlor 1016 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1221 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1232 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1242 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1248 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1254 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1260 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1262 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1268 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE239041.057 | LB263997.024 | | Total PCBs (Arochlors) | mg/kg | 1 | <1 | <1 | 200 | 0 |
| | | Surrogates | TCMX (Surrogate) | mg/kg | - | 0 | 0 | 30 | 0 |
| SE239041.067 | LB263998.014 | | Arochlor 1016 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1221 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1232 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1242 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1248 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1254 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1260 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1262 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1268 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Total PCBs (Arochlors) | mg/kg | 1 | <1 | <1 | 200 | 0 |
| | | Surrogates | TCMX (Surrogate) | mg/kg | - | 0 | 0 | 30 | 5 |
| SE239041.076 | LB263998.024 | | Arochlor 1016 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1221 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1232 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1242 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1248 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1254 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1260 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1262 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1268 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Total PCBs (Arochlors) | mg/kg | 1 | <1 | <1 | 200 | 0 |
| | | Surrogates | TCMX (Surrogate) | mg/kg | - | 0 | 0 | 30 | 2 |
| SE239041.086 | LB263999.014 | | Arochlor 1016 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1221 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1232 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1242 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1248 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1254 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1260 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1262 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1268 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Total PCBs (Arochlors) | mg/kg | 1 | <1 | <1 | 200 | 0 |
| | | Surrogates | TCMX (Surrogate) | mg/kg | - | 0 | 0 | 30 | 4 |
| SE239041.094 | LB263999.026 | | Arochlor 1016 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1221 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1232 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1242 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1248 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1254 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1260 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1262 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1268 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Total PCBs (Arochlors) | mg/kg | 1 | <1 | <1 | 200 | 0 |
| | | Surrogates | TCMX (Surrogate) | mg/kg | - | 0 | 0 | 30 | 1 |

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

| Original | Duplicate | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|
| SE239041.010 | LB264249.014 | Arsenic, As | mg/kg | 1 | 10 | 9 | 41 | 3 |
| | | Cadmium, Cd | mg/kg | 0.3 | 0.4 | 0.4 | 113 | 2 |
| | | Chromium, Cr | mg/kg | 0.5 | 75 | 74 | 31 | 2 |
| | | Copper, Cu | mg/kg | 0.5 | 13 | 12 | 34 | 2 |
| | | Nickel, Ni | mg/kg | 0.5 | 13 | 14 | 34 | 3 |
| | | Lead, Pb | mg/kg | 1 | 29 | 30 | 33 | 3 |
| | | Zinc, Zn | mg/kg | 2 | 43 | 46 | 34 | 7 |
| SE239041.019 | LB264249.024 | Arsenic, As | mg/kg | 1 | 3 | 2 | 69 | 17 |
| | | Cadmium, Cd | mg/kg | 0.3 | <0.3 | <0.3 | 200 | 0 |
| | | Chromium, Cr | mg/kg | 0.5 | 64 | 63 | 31 | 3 |
| | | Copper, Cu | mg/kg | 0.5 | 20 | 19 | 33 | 4 |
| | | Nickel, Ni | mg/kg | 0.5 | 34 | 32 | 32 | 4 |

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

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

| Original | Duplicate | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|
| SE239041.019 | LB264249.024 | Lead, Pb | mg/kg | 1 | 13 | 12 | 38 | 7 |
| | | Zinc, Zn | mg/kg | 2 | 30 | 34 | 36 | 12 |
| SE239041.029 | LB264250.014 | Arsenic, As | mg/kg | 1 | 3 | 3 | 65 | 17 |
| | | Cadmium, Cd | mg/kg | 0.3 | <0.3 | <0.3 | 200 | 0 |
| | | Chromium, Cr | mg/kg | 0.5 | 38 | 45 | 31 | 16 |
| | | Copper, Cu | mg/kg | 0.5 | 11 | 8.5 | 35 | 25 |
| | | Nickel, Ni | mg/kg | 0.5 | 7.8 | 6.3 | 37 | 22 |
| | | Lead, Pb | mg/kg | 1 | 14 | 15 | 37 | 5 |
| | | Zinc, Zn | mg/kg | 2 | 12 | 15 | 45 | 19 |
| SE239041.038 | LB264250.024 | Arsenic, As | mg/kg | 1 | 3 | 3 | 68 | 4 |
| | | Cadmium, Cd | mg/kg | 0.3 | <0.3 | <0.3 | 200 | 0 |
| | | Chromium, Cr | mg/kg | 0.5 | 33 | 31 | 32 | 6 |
| | | Copper, Cu | mg/kg | 0.5 | 1.9 | 2.1 | 55 | 8 |
| | | Nickel, Ni | mg/kg | 0.5 | 1.9 | 2.1 | 55 | 12 |
| | | Lead, Pb | mg/kg | 1 | 12 | 14 | 38 | 10 |
| | | Zinc, Zn | mg/kg | 2 | 4.2 | 4.6 | 76 | 10 |
| SE239041.048 | LB264247.014 | Arsenic, As | mg/kg | 1 | 3 | 2 | 72 | 20 |
| | | Cadmium, Cd | mg/kg | 0.3 | <0.3 | <0.3 | 200 | 0 |
| | | Chromium, Cr | mg/kg | 0.5 | 110 | 110 | 30 | 3 |
| | | Copper, Cu | mg/kg | 0.5 | 18 | 16 | 33 | 12 |
| | | Nickel, Ni | mg/kg | 0.5 | 55 | 52 | 31 | 5 |
| | | Lead, Pb | mg/kg | 1 | 11 | 12 | 39 | 7 |
| | | Zinc, Zn | mg/kg | 2 | 27 | 25 | 38 | 6 |
| SE239041.057 | LB264247.024 | Arsenic, As | mg/kg | 1 | 3 | 3 | 64 | 28 |
| | | Cadmium, Cd | mg/kg | 0.3 | <0.3 | <0.3 | 200 | 0 |
| | | Chromium, Cr | mg/kg | 0.5 | 87 | 75 | 31 | 15 |
| | | Copper, Cu | mg/kg | 0.5 | 28 | 13 | 32 | 71 ② |
| | | Nickel, Ni | mg/kg | 0.5 | 68 | 31 | 31 | 75 ② |
| | | Lead, Pb | mg/kg | 1 | 8 | 11 | 40 | 33 |
| | | Zinc, Zn | mg/kg | 2 | 25 | 15 | 40 | 52 ② |
| SE239041.067 | LB264253.014 | Arsenic, As | mg/kg | 1 | 5 | 6 | 49 | 22 |
| | | Cadmium, Cd | mg/kg | 0.3 | <0.3 | <0.3 | 200 | 0 |
| | | Chromium, Cr | mg/kg | 0.5 | 37 | 49 | 31 | 29 |
| | | Copper, Cu | mg/kg | 0.5 | 6.0 | 5.2 | 39 | 15 |
| | | Nickel, Ni | mg/kg | 0.5 | 3.8 | 3.4 | 44 | 10 |
| | | Lead, Pb | mg/kg | 1 | 17 | 20 | 35 | 16 |
| | | Zinc, Zn | mg/kg | 2 | 10 | 10 | 49 | 2 |
| SE239041.076 | LB264253.024 | Arsenic, As | mg/kg | 1 | 3 | 3 | 66 | 5 |
| | | Cadmium, Cd | mg/kg | 0.3 | <0.3 | <0.3 | 200 | 0 |
| | | Chromium, Cr | mg/kg | 0.5 | 12 | 15 | 34 | 24 |
| | | Copper, Cu | mg/kg | 0.5 | 9.4 | 12 | 35 | 21 |
| | | Nickel, Ni | mg/kg | 0.5 | 5.6 | 7.1 | 38 | 23 |
| | | Lead, Pb | mg/kg | 1 | 6 | 7 | 44 | 15 |
| | | Zinc, Zn | mg/kg | 2 | 8.9 | 11 | 50 | 23 |
| SE239041.098 | LB264254.024 | Arsenic, As | mg/kg | 1 | <1 | <1 | 200 | 0 |
| | | Cadmium, Cd | mg/kg | 0.3 | <0.3 | <0.3 | 200 | 0 |
| | | Chromium, Cr | mg/kg | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | Copper, Cu | mg/kg | 0.5 | <0.5 | <0.5 | 161 | 0 |
| | | Nickel, Ni | mg/kg | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | Lead, Pb | mg/kg | 1 | <1 | <1 | 200 | 0 |
| | | Zinc, Zn | mg/kg | 2 | <2 | <2 | 200 | 0 |

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

| Original | Duplicate | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|
| SE239071.003 | LB263915.014 | Cadmium | µg/L | 0.1 | 0.0 | <0.1 | 200 | 199 |
| | | Chromium | µg/L | 1 | 0 | <1 | 200 | 199 |
| | | Copper | µg/L | 1 | 2 | 2 | 66 | 3 |
| | | Lead | µg/L | 1 | 0 | <1 | 200 | 179 |
| | | Nickel | µg/L | 1 | 4 | 4 | 41 | 1 |
| | | Zinc | µg/L | 5 | 6 | 6 | 95 | 7 |
| SE239110.002 | LB263915.023 | Copper | µg/L | 1 | 2 | 3 | 57 | 10 |

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE239110.002 | LB263915.023 | | Zinc | µg/L | 5 | 9 | 10 | 68 | 1 |

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE239041.010 | LB263988.014 | | 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 |
| SE239041.019 | LB263988.024 | | 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 |
| SE239041.029 | LB263989.014 | | 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 |
| SE239041.038 | LB263989.024 | | 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 |
| SE239041.048 | LB263997.014 | | 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 |
| SE239041.057 | LB263997.024 | | 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 |

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

## TRH (Total Recoverable Hydrocarbons) in Soil (continued)

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE239041.057 | LB263997.024 | TRH F Bands | 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 |
| SE239041.067 | LB263998.014 | | 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 |
| SE239041.076 | LB263998.024 | | 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 |
| SE239041.086 | LB263999.014 | | 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 |
| SE239041.094 | LB263999.026 | | 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)-[ENV]AN433

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE239041.010 | LB264031.014 | Monocyclic | Benzene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Aromatic | Toluene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Hydrocarbons | Ethylbenzene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | m/p-xylene | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | o-xylene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Polycyclic | Naphthalene (VOC)* | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 12.6 | 12.0 | 50 | 5 |
| | | | d8-toluene (Surrogate) | mg/kg | - | 9.8 | 9.0 | 50 | 8 |
| | | | Bromofluorobenzene (Surrogate) | mg/kg | - | 9.9 | 9.5 | 50 | 5 |
| | | Totals | Total BTEX* | mg/kg | 0.6 | <0.6 | <0.6 | 200 | 0 |
| | | | Total Xylenes* | mg/kg | 0.3 | <0.3 | <0.3 | 200 | 0 |
| SE239041.019 | LB264031.024 | Monocyclic | Benzene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Aromatic | Toluene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Hydrocarbons | Ethylbenzene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | m/p-xylene | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE239041.019 | LB264031.024 | Monocyclic | 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 | - | 12.9 | 12.2 | 50 | 5 |
| | | | d8-toluene (Surrogate) | mg/kg | - | 9.6 | 9.0 | 50 | 6 |
| | | | Bromofluorobenzene (Surrogate) | mg/kg | - | 9.8 | 9.3 | 50 | 5 |
| | | Totals | Total BTEX* | mg/kg | 0.6 | <0.6 | <0.6 | 200 | 0 |
| | | | Total Xylenes* | mg/kg | 0.3 | <0.3 | <0.3 | 200 | 0 |
| SE239041.029 | LB264032.014 | Monocyclic | Benzene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Aromatic | Toluene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Hydrocarbons | Ethylbenzene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | m/p-xylene | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | o-xylene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Polycyclic | Naphthalene (VOC)* | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 8.8 | 8.9 | 50 | 1 |
| | | | d8-toluene (Surrogate) | mg/kg | - | 9.0 | 9.1 | 50 | 2 |
| | | | Bromofluorobenzene (Surrogate) | mg/kg | - | 7.8 | 7.9 | 50 | 2 |
| | | Totals | Total BTEX* | mg/kg | 0.6 | <0.6 | <0.6 | 200 | 0 |
| | | | Total Xylenes* | mg/kg | 0.3 | <0.3 | <0.3 | 200 | 0 |
| SE239041.038 | LB264032.024 | Monocyclic | Benzene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Aromatic | Toluene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Hydrocarbons | Ethylbenzene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | m/p-xylene | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | o-xylene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Polycyclic | Naphthalene (VOC)* | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 8.6 | 8.9 | 50 | 4 |
| | | | d8-toluene (Surrogate) | mg/kg | - | 8.8 | 9.0 | 50 | 2 |
| | | | Bromofluorobenzene (Surrogate) | mg/kg | - | 7.6 | 7.8 | 50 | 3 |
| | | Totals | Total BTEX* | mg/kg | 0.6 | <0.6 | <0.6 | 200 | 0 |
| | | | Total Xylenes* | mg/kg | 0.3 | <0.3 | <0.3 | 200 | 0 |
| SE239041.048 | LB264033.014 | Monocyclic | Benzene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Aromatic | Toluene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Hydrocarbons | Ethylbenzene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | m/p-xylene | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | o-xylene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Polycyclic | Naphthalene (VOC)* | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 9.4 | 9.3 | 50 | 0 |
| | | | d8-toluene (Surrogate) | mg/kg | - | 9.4 | 9.3 | 50 | 1 |
| | | | Bromofluorobenzene (Surrogate) | mg/kg | - | 9.2 | 9.4 | 50 | 1 |
| | | Totals | Total BTEX* | mg/kg | 0.6 | <0.6 | <0.6 | 200 | 0 |
| | | | Total Xylenes* | mg/kg | 0.3 | <0.3 | <0.3 | 200 | 0 |
| SE239041.057 | LB264033.024 | Monocyclic | Benzene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Aromatic | Toluene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Hydrocarbons | Ethylbenzene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | m/p-xylene | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | o-xylene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Polycyclic | Naphthalene (VOC)* | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 8.3 | 9.7 | 50 | 16 |
| | | | d8-toluene (Surrogate) | mg/kg | - | 11.0 | 9.8 | 50 | 12 |
| | | | Bromofluorobenzene (Surrogate) | mg/kg | - | 9.2 | 9.6 | 50 | 4 |
| | | Totals | Total BTEX* | mg/kg | 0.6 | <0.6 | <0.6 | 200 | 0 |
| | | | Total Xylenes* | mg/kg | 0.3 | <0.3 | <0.3 | 200 | 0 |
| SE239041.067 | LB264034.014 | Monocyclic | Benzene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Aromatic | Toluene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Hydrocarbons | Ethylbenzene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | m/p-xylene | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | o-xylene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Polycyclic | Naphthalene (VOC)* | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 7.6 | 7.1 | 50 | 6 |
| | | | d8-toluene (Surrogate) | mg/kg | - | 7.4 | 7.2 | 50 | 3 |
| | | | Bromofluorobenzene (Surrogate) | mg/kg | - | 8.0 | 7.4 | 50 | 8 |
| | | Totals | Total BTEX* | mg/kg | 0.6 | <0.6 | <0.6 | 200 | 0 |

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

## VOC's in Soil (continued)

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE239041.067 | LB264034.014 | Totals | Total Xylenes* | mg/kg | 0.3 | <0.3 | <0.3 | 200 | 0 |
| SE239041.076 | LB264034.024 | Monocyclic | Benzene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Aromatic | Toluene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Hydrocarbons | Ethylbenzene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | m/p-xylene | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | o-xylene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Polycyclic | Naphthalene (VOC)* | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 8.1 | 8.0 | 50 | 2 |
| | | | d8-toluene (Surrogate) | mg/kg | - | 8.4 | 8.8 | 50 | 5 |
| | | | Bromofluorobenzene (Surrogate) | mg/kg | - | 8.3 | 8.3 | 50 | 0 |
| | | Totals | Total BTEX* | mg/kg | 0.6 | <0.6 | <0.6 | 200 | 0 |
| | | | Total Xylenes* | mg/kg | 0.3 | <0.3 | <0.3 | 200 | 0 |
| SE239041.086 | LB264035.014 | Monocyclic | Benzene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Aromatic | Toluene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Hydrocarbons | Ethylbenzene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | m/p-xylene | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | o-xylene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Polycyclic | Naphthalene (VOC)* | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 10.1 | 9.6 | 50 | 5 |
| | | | d8-toluene (Surrogate) | mg/kg | - | 10.1 | 9.6 | 50 | 5 |
| | | | Bromofluorobenzene (Surrogate) | mg/kg | - | 10.1 | 9.5 | 50 | 6 |
| | | Totals | Total BTEX* | mg/kg | 0.6 | <0.6 | <0.6 | 200 | 0 |
| | | | Total Xylenes* | mg/kg | 0.3 | <0.3 | <0.3 | 200 | 0 |
| SE239041.093 | LB264035.027 | Monocyclic | Benzene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Aromatic | Toluene | mg/kg | 0.1 | 0.2 | 0.2 | 86 | 21 |
| | | Hydrocarbons | Ethylbenzene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | m/p-xylene | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | o-xylene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Polycyclic | Naphthalene (VOC)* | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 8.3 | 8.2 | 50 | 1 |
| | | | d8-toluene (Surrogate) | mg/kg | - | 7.9 | 8.0 | 50 | 1 |
| | | | Bromofluorobenzene (Surrogate) | mg/kg | - | 7.9 | 8.0 | 50 | 1 |
| | | Totals | Total BTEX* | mg/kg | 0.6 | <0.6 | <0.6 | 197 | 0 |
| | | | Total Xylenes* | mg/kg | 0.3 | <0.3 | <0.3 | 200 | 0 |

## VOCs in Water

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE239041.096 | LB264092.022 | Monocyclic | Benzene | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | Aromatic | Toluene | µg/L | 0.5 | 4.6 | 4.8 | 41 | 4 |
| | | Hydrocarbons | Ethylbenzene | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | m/p-xylene | µg/L | 1 | <1 | <1 | 200 | 0 |
| | | | o-xylene | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | Polycyclic | Naphthalene (VOC)* | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | µg/L | - | 8.8 | 10.7 | 30 | 19 |
| | | | d8-toluene (Surrogate) | µg/L | - | 11.3 | 10.5 | 30 | 7 |
| | | | Bromofluorobenzene (Surrogate) | µg/L | - | 10.2 | 10.1 | 30 | 1 |
| | | Totals | Total BTEX | µg/L | 3 | 5 | 5 | 94 | 4 |

## Volatile Petroleum Hydrocarbons in Soil

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE239041.010 | LB264031.014 | | TRH C6-C10 raw | µg/L | 0.05 | 8.1 | 8.9 | 200 | 9 |
| | | | TRH C6-C9 raw | µg/L | 0.05 | 7.4 | 8.0 | 200 | 7 |
| | | | 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 | - | 12.6 | 12.0 | 30 | 5 |
| | | | d8-toluene (Surrogate) | mg/kg | - | 9.8 | 9.0 | 30 | 8 |
| | | | Bromofluorobenzene (Surrogate) | mg/kg | - | 9.9 | 9.5 | 30 | 5 |
| | | 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 |
| SE239041.019 | LB264031.024 | | TRH C6-C10 raw | µg/L | 0.05 | 8.8 | 6.5 | 200 | 31 |
| | | | TRH C6-C9 raw | µg/L | 0.05 | 8.1 | 5.8 | 200 | 33 |
| | | | TRH C6-C10 | mg/kg | 25 | <25 | <25 | 200 | 0 |

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE239041.019 | LB264031.024 | | TRH C6-C9 | mg/kg | 20 | <20 | <20 | 200 | 0 |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 12.9 | 12.2 | 30 | 5 |
| | | | d8-toluene (Surrogate) | mg/kg | - | 9.6 | 9.0 | 30 | 6 |
| | | | Bromofluorobenzene (Surrogate) | mg/kg | - | 9.8 | 9.3 | 30 | 5 |
| | | 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 |
| SE239041.029 | LB264032.014 | | TRH C6-C10 raw | µg/L | 0.05 | <0.05 | <0.05 | 200 | 0 |
| | | | TRH C6-C9 raw | µg/L | 0.05 | <0.05 | <0.05 | 200 | 0 |
| | | | TRH C6-C10 | mg/kg | 25 | <25 | <25 | 200 | 0 |
| | | | TRH C6-C9 | mg/kg | 20 | <20 | <20 | 200 | 0 |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 8.8 | 8.9 | 30 | 1 |
| | | | d8-toluene (Surrogate) | mg/kg | - | 9.0 | 9.1 | 30 | 2 |
| | | | Bromofluorobenzene (Surrogate) | mg/kg | - | 7.8 | 7.9 | 30 | 2 |
| | | VPH F Bands | Benzene (F0) | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | TRH C6-C10 minus BTEX (F1) | mg/kg | 25 | <25 | <25 | 200 | 0 |
| SE239041.038 | LB264032.024 | | TRH C6-C10 raw | µg/L | 0.05 | <0.05 | 0.17 | 200 | 111 |
| | | | TRH C6-C9 raw | µg/L | 0.05 | 0.083 | 0.24 | 200 | 98 |
| | | | TRH C6-C10 | mg/kg | 25 | <25 | <25 | 200 | 0 |
| | | | TRH C6-C9 | mg/kg | 20 | <20 | <20 | 200 | 0 |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 8.6 | 8.9 | 30 | 4 |
| | | | d8-toluene (Surrogate) | mg/kg | - | 8.8 | 9.0 | 30 | 2 |
| | | | Bromofluorobenzene (Surrogate) | mg/kg | - | 7.6 | 7.8 | 30 | 3 |
| | | 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 |
| SE239041.048 | LB264033.014 | | TRH C6-C10 raw | µg/L | 0.05 | <0.05 | <0.05 | 200 | 0 |
| | | | TRH C6-C9 raw | µg/L | 0.05 | <0.05 | <0.05 | 200 | 0 |
| | | | 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 | - | 9.4 | 9.3 | 30 | 0 |
| | | | d8-toluene (Surrogate) | mg/kg | - | 9.4 | 9.3 | 30 | 1 |
| | | | Bromofluorobenzene (Surrogate) | mg/kg | - | 9.2 | 9.4 | 30 | 1 |
| | | 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 |
| SE239041.057 | LB264033.024 | | TRH C6-C10 raw | µg/L | 0.05 | <0.05 | <0.05 | 200 | 0 |
| | | | TRH C6-C9 raw | µg/L | 0.05 | <0.05 | <0.05 | 200 | 0 |
| | | | TRH C6-C10 | mg/kg | 25 | <25 | <25 | 200 | 0 |
| | | | TRH C6-C9 | mg/kg | 20 | <20 | <20 | 200 | 0 |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 8.3 | 9.7 | 30 | 16 |
| | | | d8-toluene (Surrogate) | mg/kg | - | 11.0 | 9.8 | 30 | 12 |
| | | | Bromofluorobenzene (Surrogate) | mg/kg | - | 9.2 | 9.6 | 30 | 4 |
| | | VPH F Bands | Benzene (F0) | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | TRH C6-C10 minus BTEX (F1) | mg/kg | 25 | <25 | <25 | 200 | 0 |
| SE239041.067 | LB264034.014 | | TRH C6-C10 raw | µg/L | 0.05 | <0.05 | <0.05 | 200 | 0 |
| | | | TRH C6-C9 raw | µg/L | 0.05 | <0.05 | <0.05 | 200 | 0 |
| | | | TRH C6-C10 | mg/kg | 25 | <25 | <25 | 200 | 0 |
| | | | TRH C6-C9 | mg/kg | 20 | <20 | <20 | 200 | 0 |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 7.6 | 7.1 | 30 | 6 |
| | | | d8-toluene (Surrogate) | mg/kg | - | 7.4 | 7.2 | 30 | 3 |
| | | | Bromofluorobenzene (Surrogate) | mg/kg | - | 8.0 | 7.4 | 30 | 8 |
| | | 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 |
| SE239041.076 | LB264034.024 | | TRH C6-C10 raw | µg/L | 0.05 | <0.05 | <0.05 | 200 | 0 |
| | | | TRH C6-C9 raw | µg/L | 0.05 | <0.05 | <0.05 | 200 | 0 |
| | | | TRH C6-C10 | mg/kg | 25 | <25 | <25 | 200 | 0 |
| | | | TRH C6-C9 | mg/kg | 20 | <20 | <20 | 200 | 0 |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 8.1 | 8.0 | 30 | 2 |
| | | | d8-toluene (Surrogate) | mg/kg | - | 8.4 | 8.8 | 30 | 5 |
| | | | Bromofluorobenzene (Surrogate) | mg/kg | - | 8.3 | 8.3 | 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 |
| SE239041.086 | LB264035.014 | | TRH C6-C10 raw | µg/L | 0.05 | <0.05 | <0.05 | 200 | 0 |

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

## Volatile Petroleum Hydrocarbons in Soil (continued)

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE239041.086 | LB264035.014 | | TRH C6-C9 raw | µg/L | 0.05 | <0.05 | <0.05 | 200 | 0 |
| | | | TRH C6-C10 | mg/kg | 25 | <25 | <25 | 200 | 0 |
| | | | TRH C6-C9 | mg/kg | 20 | <20 | <20 | 200 | 0 |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 10.1 | 9.6 | 30 | 5 |
| | | | d8-toluene (Surrogate) | mg/kg | - | 10.1 | 9.6 | 30 | 5 |
| | | | Bromofluorobenzene (Surrogate) | mg/kg | - | 10.1 | 9.5 | 30 | 6 |
| | | VPH F Bands | Benzene (F0) | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | TRH C6-C10 minus BTEX (F1) | mg/kg | 25 | <25 | <25 | 200 | 0 |
| SE239041.093 | LB264035.027 | | TRH C6-C10 raw | µg/L | 0.05 | <0.05 | 4.4 | 200 | 196 |
| | | | TRH C6-C9 raw | µg/L | 0.05 | <0.05 | 1.7 | 200 | 189 |
| | | | TRH C6-C10 | mg/kg | 25 | <25 | <25 | 200 | 0 |
| | | | TRH C6-C9 | mg/kg | 20 | <20 | <20 | 200 | 0 |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 8.3 | 8.2 | 30 | 1 |
| | | | d8-toluene (Surrogate) | mg/kg | - | 7.9 | 8.0 | 30 | 1 |
| | | | Bromofluorobenzene (Surrogate) | mg/kg | - | 7.9 | 8.0 | 30 | 1 |
| | | VPH F Bands | Benzene (F0) | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | TRH C6-C10 minus BTEX (F1) | mg/kg | 25 | <25 | <25 | 200 | 0 |

## Volatile Petroleum Hydrocarbons in Water

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE239041.096 | LB264092.022 | | TRH C6-C10 | µg/L | 50 | <50 | <50 | 200 | 0 |
| | | | TRH C6-C9 | µg/L | 40 | <40 | <40 | 200 | 0 |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | µg/L | - | 8.8 | 10.7 | 30 | 19 |
| | | | d8-toluene (Surrogate) | µg/L | - | 11.3 | 10.5 | 30 | 7 |
| | | | Bromofluorobenzene (Surrogate) | µg/L | - | 10.2 | 10.1 | 30 | 1 |
| | | VPH F Bands | Benzene (F0) | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | TRH C6-C10 minus BTEX (F1) | µg/L | 50 | <50 | <50 | 200 | 0 |
| SE239051.001 | LB264092.023 | | TRH C6-C10 | µg/L | 50 | <50 | <50 | 200 | 0 |
| | | | TRH C6-C9 | µg/L | 40 | <40 | <40 | 200 | 0 |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | µg/L | - | 8.8 | 10.2 | 30 | 15 |
| | | | d8-toluene (Surrogate) | µg/L | - | 10.6 | 10.2 | 30 | 4 |
| | | | Bromofluorobenzene (Surrogate) | µg/L | - | 10.1 | 10.2 | 30 | 1 |
| | | VPH F Bands | Benzene (F0) | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | TRH C6-C10 minus BTEX (F1) | µg/L | 50 | <50 | <50 | 200 | 0 |

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 % |
|---|---|---|---|---|---|---|---|
| LB264256.002 | Mercury | mg/kg | 0.05 | 0.19 | 0.2 | 70 - 130 | 97 |
| LB264257.002 | Mercury | mg/kg | 0.05 | 0.19 | 0.2 | 70 - 130 | 94 |
| LB264259.002 | Mercury | mg/kg | 0.05 | 0.19 | 0.2 | 70 - 130 | 96 |
| LB264260.002 | Mercury | mg/kg | 0.05 | 0.19 | 0.2 | 70 - 130 | 97 |
| LB264261.002 | Mercury | mg/kg | 0.05 | 0.19 | 0.2 | 70 - 130 | 94 |

## OC Pesticides in Soil

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

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB263988.002 | | Delta BHC | mg/kg | 0.1 | 0.2 | 0.2 | 60 - 140 | 93 |
| | | Heptachlor | mg/kg | 0.1 | 0.2 | 0.2 | 60 - 140 | 94 |
| | | Aldrin | mg/kg | 0.1 | 0.2 | 0.2 | 60 - 140 | 93 |
| | | Dieldrin | mg/kg | 0.2 | <0.2 | 0.2 | 60 - 140 | 89 |
| | | Endrin | mg/kg | 0.2 | <0.2 | 0.2 | 60 - 140 | 94 |
| | | p,p'-DDT | mg/kg | 0.1 | 0.1 | 0.2 | 60 - 140 | 62 |
| | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | mg/kg | - | 0.16 | 0.15 | 40 - 130 | 109 |
| LB263989.002 | | Delta BHC | mg/kg | 0.1 | 0.2 | 0.2 | 60 - 140 | 98 |
| | | Heptachlor | mg/kg | 0.1 | 0.2 | 0.2 | 60 - 140 | 102 |
| | | Aldrin | mg/kg | 0.1 | 0.2 | 0.2 | 60 - 140 | 98 |
| | | Dieldrin | mg/kg | 0.2 | <0.2 | 0.2 | 60 - 140 | 97 |
| | | Endrin | mg/kg | 0.2 | <0.2 | 0.2 | 60 - 140 | 95 |
| | | p,p'-DDT | mg/kg | 0.1 | 0.2 | 0.2 | 60 - 140 | 84 |
| | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | mg/kg | - | 0.16 | 0.15 | 40 - 130 | 106 |
| LB263997.002 | | Delta BHC | mg/kg | 0.1 | 0.2 | 0.2 | 60 - 140 | 96 |
| | | Heptachlor | mg/kg | 0.1 | 0.2 | 0.2 | 60 - 140 | 101 |
| | | Aldrin | mg/kg | 0.1 | 0.2 | 0.2 | 60 - 140 | 98 |
| | | Dieldrin | mg/kg | 0.2 | 0.2 | 0.2 | 60 - 140 | 102 |
| | | Endrin | mg/kg | 0.2 | 0.2 | 0.2 | 60 - 140 | 100 |
| | | p,p'-DDT | mg/kg | 0.1 | 0.2 | 0.2 | 60 - 140 | 98 |
| | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | mg/kg | - | 0.15 | 0.15 | 40 - 130 | 101 |
| LB263998.002 | | Delta BHC | mg/kg | 0.1 | 0.2 | 0.2 | 60 - 140 | 89 |
| | | Heptachlor | mg/kg | 0.1 | 0.2 | 0.2 | 60 - 140 | 93 |
| | | Aldrin | mg/kg | 0.1 | 0.2 | 0.2 | 60 - 140 | 94 |
| | | Dieldrin | mg/kg | 0.2 | <0.2 | 0.2 | 60 - 140 | 91 |
| | | Endrin | mg/kg | 0.2 | <0.2 | 0.2 | 60 - 140 | 97 |
| | | p,p'-DDT | mg/kg | 0.1 | 0.2 | 0.2 | 60 - 140 | 103 |
| | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | mg/kg | - | 0.16 | 0.15 | 40 - 130 | 104 |
| LB263999.002 | | Delta BHC | mg/kg | 0.1 | 0.2 | 0.2 | 60 - 140 | 89 |
| | | Heptachlor | mg/kg | 0.1 | 0.2 | 0.2 | 60 - 140 | 101 |
| | | Aldrin | mg/kg | 0.1 | 0.2 | 0.2 | 60 - 140 | 100 |
| | | Dieldrin | mg/kg | 0.2 | 0.2 | 0.2 | 60 - 140 | 102 |
| | | Endrin | mg/kg | 0.2 | 0.2 | 0.2 | 60 - 140 | 107 |
| | | p,p'-DDT | mg/kg | 0.1 | 0.2 | 0.2 | 60 - 140 | 108 |
| | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | mg/kg | - | 0.17 | 0.15 | 40 - 130 | 112 |

## OC Pesticides in Water

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

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB263924.002 | | Delta BHC | µg/L | 0.1 | 0.2 | 0.2 | 60 - 140 | 110 |
| | | Heptachlor | µg/L | 0.1 | 0.2 | 0.2 | 60 - 140 | 109 |
| | | Aldrin | µg/L | 0.1 | 0.2 | 0.2 | 60 - 140 | 90 |
| | | Dieldrin | µg/L | 0.1 | 0.2 | 0.2 | 60 - 140 | 108 |
| | | Endrin | µg/L | 0.1 | 0.2 | 0.2 | 60 - 140 | 104 |
| | | p,p'-DDT | µg/L | 0.1 | 0.2 | 0.2 | 60 - 140 | 117 |
| | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | µg/L | - | 0.16 | 0.15 | 40 - 130 | 108 |

## OP Pesticides in Soil

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

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB263988.002 | | Chlorpyrifos (Chlorpyrifos Ethyl) | mg/kg | 0.2 | 2.3 | 2 | 60 - 140 | 114 |
| | | Diazinon (Dimpylate) | mg/kg | 0.5 | 2.3 | 2 | 60 - 140 | 116 |
| | | Dichlorvos | mg/kg | 0.5 | 1.8 | 2 | 60 - 140 | 88 |
| | | Ethion | mg/kg | 0.2 | 2.3 | 2 | 60 - 140 | 116 |
| | Surrogates | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | 40 - 130 | 102 |
| | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.6 | 0.5 | 40 - 130 | 116 |

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

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

## OP Pesticides in Soil (continued)

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

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB263989.002 | | Chlorpyrifos (Chlorpyrifos Ethyl) | mg/kg | 0.2 | 1.7 | 2 | 60 - 140 | 85 |
| | | Diazinon (Dimpylate) | mg/kg | 0.5 | 1.7 | 2 | 60 - 140 | 86 |
| | | Dichlorvos | mg/kg | 0.5 | 1.6 | 2 | 60 - 140 | 78 |
| | | Ethion | mg/kg | 0.2 | 1.4 | 2 | 60 - 140 | 69 |
| | Surrogates | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | 40 - 130 | 92 |
| | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | 40 - 130 | 95 |
| LB263997.002 | | Chlorpyrifos (Chlorpyrifos Ethyl) | mg/kg | 0.2 | 1.7 | 2 | 60 - 140 | 84 |
| | | Diazinon (Dimpylate) | mg/kg | 0.5 | 1.7 | 2 | 60 - 140 | 83 |
| | | Dichlorvos | mg/kg | 0.5 | 1.5 | 2 | 60 - 140 | 75 |
| | | Ethion | mg/kg | 0.2 | 1.3 | 2 | 60 - 140 | 67 |
| | Surrogates | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | 40 - 130 | 91 |
| | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | 40 - 130 | 96 |
| LB263998.002 | | Chlorpyrifos (Chlorpyrifos Ethyl) | mg/kg | 0.2 | 1.7 | 2 | 60 - 140 | 84 |
| | | Diazinon (Dimpylate) | mg/kg | 0.5 | 1.7 | 2 | 60 - 140 | 84 |
| | | Dichlorvos | mg/kg | 0.5 | 1.5 | 2 | 60 - 140 | 75 |
| | | Ethion | mg/kg | 0.2 | 1.3 | 2 | 60 - 140 | 67 |
| | Surrogates | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | 40 - 130 | 93 |
| | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | 40 - 130 | 98 |
| LB263999.002 | | Chlorpyrifos (Chlorpyrifos Ethyl) | mg/kg | 0.2 | 1.9 | 2 | 60 - 140 | 95 |
| | | Diazinon (Dimpylate) | mg/kg | 0.5 | 2.0 | 2 | 60 - 140 | 101 |
| | | Dichlorvos | mg/kg | 0.5 | 1.7 | 2 | 60 - 140 | 83 |
| | | Ethion | mg/kg | 0.2 | 1.8 | 2 | 60 - 140 | 91 |
| | Surrogates | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | 40 - 130 | 98 |
| | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | 40 - 130 | 97 |

## OP Pesticides in Water

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

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB263924.002 | | Chlorpyrifos (Chlorpyrifos Ethyl) | µg/L | 0.2 | 10 | 8 | 60 - 140 | 126 |
| | | Diazinon (Dimpylate) | µg/L | 0.5 | 9.9 | 8 | 60 - 140 | 123 |
| | | Dichlorvos | µg/L | 0.5 | 9.6 | 8 | 60 - 140 | 120 |
| | | Ethion | µg/L | 0.2 | 9.8 | 8 | 60 - 140 | 122 |
| | Surrogates | 2-fluorobiphenyl (Surrogate) | µg/L | - | 0.4 | 0.5 | 40 - 130 | 72 |
| | | d14-p-terphenyl (Surrogate) | µg/L | - | 0.4 | 0.5 | 40 - 130 | 84 |

## PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB263988.002 | | Naphthalene | mg/kg | 0.1 | 5.2 | 4 | 60 - 140 | 129 |
| | | Acenaphthylene | mg/kg | 0.1 | 4.6 | 4 | 60 - 140 | 114 |
| | | Acenaphthene | mg/kg | 0.1 | 4.8 | 4 | 60 - 140 | 120 |
| | | Phenanthrene | mg/kg | 0.1 | 4.9 | 4 | 60 - 140 | 121 |
| | | Anthracene | mg/kg | 0.1 | 4.8 | 4 | 60 - 140 | 120 |
| | | Fluoranthene | mg/kg | 0.1 | 4.7 | 4 | 60 - 140 | 119 |
| | | Pyrene | mg/kg | 0.1 | 4.8 | 4 | 60 - 140 | 120 |
| | | Benzo(a)pyrene | mg/kg | 0.1 | 4.2 | 4 | 60 - 140 | 104 |
| | Surrogates | d5-nitrobenzene (Surrogate) | mg/kg | - | 0.6 | 0.5 | 40 - 130 | 116 |
| | | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | 40 - 130 | 102 |
| | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.6 | 0.5 | 40 - 130 | 116 |
| LB263989.002 | | Naphthalene | mg/kg | 0.1 | 4.4 | 4 | 60 - 140 | 111 |
| | | Acenaphthylene | mg/kg | 0.1 | 4.3 | 4 | 60 - 140 | 106 |
| | | Acenaphthene | mg/kg | 0.1 | 4.5 | 4 | 60 - 140 | 112 |
| | | Phenanthrene | mg/kg | 0.1 | 4.5 | 4 | 60 - 140 | 112 |
| | | Anthracene | mg/kg | 0.1 | 4.3 | 4 | 60 - 140 | 108 |
| | | Fluoranthene | mg/kg | 0.1 | 4.3 | 4 | 60 - 140 | 107 |
| | | Pyrene | mg/kg | 0.1 | 4.5 | 4 | 60 - 140 | 112 |
| | | Benzo(a)pyrene | mg/kg | 0.1 | 3.9 | 4 | 60 - 140 | 97 |
| | Surrogates | d5-nitrobenzene (Surrogate) | mg/kg | - | 0.5 | 0.5 | 40 - 130 | 102 |
| | | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | 40 - 130 | 92 |
| | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | 40 - 130 | 95 |
| LB263997.002 | | Naphthalene | mg/kg | 0.1 | 4.5 | 4 | 60 - 140 | 111 |
| | | Acenaphthylene | mg/kg | 0.1 | 4.2 | 4 | 60 - 140 | 105 |
| | | Acenaphthene | mg/kg | 0.1 | 4.5 | 4 | 60 - 140 | 112 |
| | | Phenanthrene | mg/kg | 0.1 | 4.5 | 4 | 60 - 140 | 112 |

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 % |
|---|---|---|---|---|---|---|---|---|
| LB263997.002 | | Anthracene | mg/kg | 0.1 | 4.3 | 4 | 60 - 140 | 108 |
| | | Fluoranthene | mg/kg | 0.1 | 4.3 | 4 | 60 - 140 | 107 |
| | | Pyrene | mg/kg | 0.1 | 4.5 | 4 | 60 - 140 | 114 |
| | | Benzo(a)pyrene | mg/kg | 0.1 | 3.9 | 4 | 60 - 140 | 97 |
| | Surrogates | d5-nitrobenzene (Surrogate) | mg/kg | - | 0.5 | 0.5 | 40 - 130 | 103 |
| | | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | 40 - 130 | 91 |
| | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | 40 - 130 | 96 |
| LB263998.002 | | Naphthalene | mg/kg | 0.1 | 4.5 | 4 | 60 - 140 | 111 |
| | | Acenaphthylene | mg/kg | 0.1 | 4.3 | 4 | 60 - 140 | 107 |
| | | Acenaphthene | mg/kg | 0.1 | 4.5 | 4 | 60 - 140 | 113 |
| | | Phenanthrene | mg/kg | 0.1 | 4.5 | 4 | 60 - 140 | 114 |
| | | Anthracene | mg/kg | 0.1 | 4.4 | 4 | 60 - 140 | 110 |
| | | Fluoranthene | mg/kg | 0.1 | 4.3 | 4 | 60 - 140 | 109 |
| | | Pyrene | mg/kg | 0.1 | 4.6 | 4 | 60 - 140 | 115 |
| | | Benzo(a)pyrene | mg/kg | 0.1 | 3.9 | 4 | 60 - 140 | 98 |
| | Surrogates | d5-nitrobenzene (Surrogate) | mg/kg | - | 0.5 | 0.5 | 40 - 130 | 106 |
| | | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | 40 - 130 | 93 |
| | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | 40 - 130 | 98 |
| LB263999.002 | | Naphthalene | mg/kg | 0.1 | 4.5 | 4 | 60 - 140 | 112 |
| | | Acenaphthylene | mg/kg | 0.1 | 4.4 | 4 | 60 - 140 | 110 |
| | | Acenaphthene | mg/kg | 0.1 | 4.4 | 4 | 60 - 140 | 111 |
| | | Phenanthrene | mg/kg | 0.1 | 4.5 | 4 | 60 - 140 | 111 |
| | | Anthracene | mg/kg | 0.1 | 4.3 | 4 | 60 - 140 | 108 |
| | | Fluoranthene | mg/kg | 0.1 | 4.3 | 4 | 60 - 140 | 108 |
| | | Pyrene | mg/kg | 0.1 | 4.4 | 4 | 60 - 140 | 110 |
| | | Benzo(a)pyrene | mg/kg | 0.1 | 4.1 | 4 | 60 - 140 | 103 |
| | Surrogates | d5-nitrobenzene (Surrogate) | mg/kg | - | 0.5 | 0.5 | 40 - 130 | 107 |
| | | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | 40 - 130 | 98 |
| | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | 40 - 130 | 97 |

## PAH (Polynuclear Aromatic Hydrocarbons) in Water

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

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB263924.002 | | Naphthalene | µg/L | 0.1 | 32 | 40 | 60 - 140 | 79 |
| | | Acenaphthylene | µg/L | 0.1 | 32 | 40 | 60 - 140 | 80 |
| | | Acenaphthene | µg/L | 0.1 | 34 | 40 | 60 - 140 | 86 |
| | | Phenanthrene | µg/L | 0.1 | 34 | 40 | 60 - 140 | 85 |
| | | Anthracene | µg/L | 0.1 | 34 | 40 | 60 - 140 | 85 |
| | | Fluoranthene | µg/L | 0.1 | 34 | 40 | 60 - 140 | 85 |
| | | Pyrene | µg/L | 0.1 | 33 | 40 | 60 - 140 | 82 |
| | | Benzo(a)pyrene | µg/L | 0.1 | 36 | 40 | 60 - 140 | 91 |
| | Surrogates | d5-nitrobenzene (Surrogate) | µg/L | - | 0.3 | 0.5 | 40 - 130 | 58 |
| | | 2-fluorobiphenyl (Surrogate) | µg/L | - | 0.4 | 0.5 | 40 - 130 | 72 |
| | | d14-p-terphenyl (Surrogate) | µg/L | - | 0.4 | 0.5 | 40 - 130 | 84 |

## PCBs in Soil

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

| Sample Number | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|
| LB263988.002 | Arochlor 1260 | mg/kg | 0.2 | 0.4 | 0.4 | 60 - 140 | 108 |
| LB263989.002 | Arochlor 1260 | mg/kg | 0.2 | 0.4 | 0.4 | 60 - 140 | 101 |
| LB263997.002 | Arochlor 1260 | mg/kg | 0.2 | 0.5 | 0.4 | 60 - 140 | 125 |
| LB263998.002 | Arochlor 1260 | mg/kg | 0.2 | 0.5 | 0.4 | 60 - 140 | 113 |
| LB263999.002 | Arochlor 1260 | mg/kg | 0.2 | 0.5 | 0.4 | 60 - 140 | 131 |

## PCBs in Water

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

| Sample Number | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|
| LB263924.002 | Arochlor 1260 | µg/L | 1 | <1 | 0.4 | 60 - 140 | 127 |

## 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 % |
|---|---|---|---|---|---|---|---|
| LB264247.002 | Arsenic, As | mg/kg | 1 | 330 | 318.22 | 80 - 120 | 105 |
| | Cadmium, Cd | mg/kg | 0.3 | 4.8 | 4.81 | 70 - 130 | 100 |
| | Chromium, Cr | mg/kg | 0.5 | 39 | 38.31 | 80 - 120 | 103 |

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

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

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

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

| Sample Number | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|
| LB264247.002 | 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 | 93 | 89.9 | 80 - 120 | 104 |
| | Zinc, Zn | mg/kg | 2 | 270 | 273 | 80 - 120 | 101 |
| LB264249.002 | Arsenic, As | mg/kg | 1 | 350 | 318.22 | 80 - 120 | 111 |
| | Cadmium, Cd | mg/kg | 0.3 | 4.9 | 4.81 | 70 - 130 | 101 |
| | Chromium, Cr | mg/kg | 0.5 | 42 | 38.31 | 80 - 120 | 110 |
| | Copper, Cu | mg/kg | 0.5 | 320 | 290 | 80 - 120 | 112 |
| | Nickel, Ni | mg/kg | 0.5 | 200 | 187 | 80 - 120 | 106 |
| | Lead, Pb | mg/kg | 1 | 97 | 89.9 | 80 - 120 | 108 |
| | Zinc, Zn | mg/kg | 2 | 290 | 273 | 80 - 120 | 106 |
| LB264250.002 | Arsenic, As | mg/kg | 1 | 350 | 318.22 | 80 - 120 | 110 |
| | Cadmium, Cd | mg/kg | 0.3 | 4.8 | 4.81 | 70 - 130 | 100 |
| | Chromium, Cr | mg/kg | 0.5 | 40 | 38.31 | 80 - 120 | 105 |
| | Copper, Cu | mg/kg | 0.5 | 320 | 290 | 80 - 120 | 111 |
| | Nickel, Ni | mg/kg | 0.5 | 200 | 187 | 80 - 120 | 107 |
| | Lead, Pb | mg/kg | 1 | 99 | 89.9 | 80 - 120 | 110 |
| | Zinc, Zn | mg/kg | 2 | 290 | 273 | 80 - 120 | 106 |
| LB264253.002 | Arsenic, As | mg/kg | 1 | 350 | 318.22 | 80 - 120 | 109 |
| | Cadmium, Cd | mg/kg | 0.3 | 4.8 | 4.81 | 70 - 130 | 99 |
| | Chromium, Cr | mg/kg | 0.5 | 41 | 38.31 | 80 - 120 | 107 |
| | Copper, Cu | mg/kg | 0.5 | 320 | 290 | 80 - 120 | 111 |
| | Nickel, Ni | mg/kg | 0.5 | 200 | 187 | 80 - 120 | 107 |
| | Lead, Pb | mg/kg | 1 | 98 | 89.9 | 80 - 120 | 109 |
| | Zinc, Zn | mg/kg | 2 | 290 | 273 | 80 - 120 | 106 |
| LB264254.002 | Arsenic, As | mg/kg | 1 | 360 | 318.22 | 80 - 120 | 112 |
| | Cadmium, Cd | mg/kg | 0.3 | 5.0 | 4.81 | 70 - 130 | 104 |
| | Chromium, Cr | mg/kg | 0.5 | 45 | 38.31 | 80 - 120 | 117 |
| | Copper, Cu | mg/kg | 0.5 | 330 | 290 | 80 - 120 | 112 |
| | Nickel, Ni | mg/kg | 0.5 | 200 | 187 | 80 - 120 | 107 |
| | Lead, Pb | mg/kg | 1 | 99 | 89.9 | 80 - 120 | 110 |
| | Zinc, Zn | mg/kg | 2 | 290 | 273 | 80 - 120 | 108 |

## Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

| Sample Number | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|
| LB263915.002 | Arsenic | µg/L | 1 | 19 | 20 | 80 - 120 | 97 |
| | Cadmium | µg/L | 0.1 | 21 | 20 | 80 - 120 | 103 |
| | Chromium | µg/L | 1 | 20 | 20 | 80 - 120 | 101 |
| | Copper | µg/L | 1 | 21 | 20 | 80 - 120 | 105 |
| | Lead | µg/L | 1 | 19 | 20 | 80 - 120 | 94 |
| | Nickel | µg/L | 1 | 21 | 20 | 80 - 120 | 103 |
| | Zinc | µg/L | 5 | 22 | 20 | 80 - 120 | 108 |

## TRH (Total Recoverable Hydrocarbons) in Soil

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

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB263988.002 | | TRH C10-C14 | mg/kg | 20 | 47 | 40 | 60 - 140 | 118 |
| | | TRH C15-C28 | mg/kg | 45 | 49 | 40 | 60 - 140 | 124 |
| | | TRH C29-C36 | mg/kg | 45 | <45 | 40 | 60 - 140 | 90 |
| | TRH F Bands | TRH >C10-C16 | mg/kg | 25 | 48 | 40 | 60 - 140 | 120 |
| | | TRH >C16-C34 (F3) | mg/kg | 90 | <90 | 40 | 60 - 140 | 112 |
| | | TRH >C34-C40 (F4) | mg/kg | 120 | <120 | 20 | 60 - 140 | 88 |
| LB263989.002 | | TRH C10-C14 | mg/kg | 20 | 46 | 40 | 60 - 140 | 115 |
| | | TRH C15-C28 | mg/kg | 45 | 48 | 40 | 60 - 140 | 120 |
| | | TRH C29-C36 | mg/kg | 45 | <45 | 40 | 60 - 140 | 95 |
| | TRH F Bands | TRH >C10-C16 | mg/kg | 25 | 46 | 40 | 60 - 140 | 115 |
| | | TRH >C16-C34 (F3) | mg/kg | 90 | <90 | 40 | 60 - 140 | 110 |
| | | TRH >C34-C40 (F4) | mg/kg | 120 | <120 | 20 | 60 - 140 | 100 |
| LB263997.002 | | TRH C10-C14 | mg/kg | 20 | 48 | 40 | 60 - 140 | 120 |
| | | TRH C15-C28 | mg/kg | 45 | <45 | 40 | 60 - 140 | 105 |
| | | TRH C29-C36 | mg/kg | 45 | <45 | 40 | 60 - 140 | 90 |
| | TRH F Bands | TRH >C10-C16 | mg/kg | 25 | 46 | 40 | 60 - 140 | 115 |
| | | TRH >C16-C34 (F3) | mg/kg | 90 | <90 | 40 | 60 - 140 | 100 |

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]AN403

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB263998.002 | | TRH C10-C14 | mg/kg | 20 | 46 | 40 | 60 - 140 | 115 |
| | | TRH C15-C28 | mg/kg | 45 | 46 | 40 | 60 - 140 | 115 |
| | | TRH C29-C36 | mg/kg | 45 | <45 | 40 | 60 - 140 | 85 |
| | TRH F Bands | TRH >C10-C16 | mg/kg | 25 | 46 | 40 | 60 - 140 | 115 |
| | | TRH >C16-C34 (F3) | mg/kg | 90 | <90 | 40 | 60 - 140 | 105 |
| | | TRH >C34-C40 (F4) | mg/kg | 120 | <120 | 20 | 60 - 140 | 90 |
| LB263999.002 | | TRH C10-C14 | mg/kg | 20 | 46 | 40 | 60 - 140 | 115 |
| | | TRH C15-C28 | mg/kg | 45 | <45 | 40 | 60 - 140 | 110 |
| | | TRH C29-C36 | mg/kg | 45 | <45 | 40 | 60 - 140 | 95 |
| | TRH F Bands | TRH >C10-C16 | mg/kg | 25 | 46 | 40 | 60 - 140 | 115 |
| | | TRH >C16-C34 (F3) | mg/kg | 90 | <90 | 40 | 60 - 140 | 105 |
| | | TRH >C34-C40 (F4) | mg/kg | 120 | <120 | 20 | 60 - 140 | 98 |

### TRH (Total Recoverable Hydrocarbons) in Water

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

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB263924.002 | | TRH C10-C14 | µg/L | 50 | 1200 | 1200 | 60 - 140 | 100 |
| | | TRH C15-C28 | µg/L | 200 | 1300 | 1200 | 60 - 140 | 104 |
| | | TRH C29-C36 | µg/L | 200 | 1100 | 1200 | 60 - 140 | 92 |
| | TRH F Bands | TRH >C10-C16 | µg/L | 60 | 1300 | 1200 | 60 - 140 | 106 |
| | | TRH >C16-C34 (F3) | µg/L | 500 | 1300 | 1200 | 60 - 140 | 110 |
| | | TRH >C34-C40 (F4) | µg/L | 500 | 500 | 600 | 60 - 140 | 83 |

### VOC's in Soil

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

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB264031.002 | Monocyclic Aromatic Hydrocarbons | Benzene | mg/kg | 0.1 | 4.9 | 5 | 60 - 140 | 98 |
| | | Toluene | mg/kg | 0.1 | 5.8 | 5 | 60 - 140 | 117 |
| | | Ethylbenzene | mg/kg | 0.1 | 5.0 | 5 | 60 - 140 | 100 |
| | | m/p-xylene | mg/kg | 0.2 | 10 | 10 | 60 - 140 | 105 |
| | | o-xylene | mg/kg | 0.1 | 5.6 | 5 | 60 - 140 | 112 |
| | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 10.8 | 10 | 70 - 130 | 108 |
| | | d8-toluene (Surrogate) | mg/kg | - | 9.7 | 10 | 70 - 130 | 97 |
| | | Bromofluorobenzene (Surrogate) | mg/kg | - | 10.2 | 10 | 70 - 130 | 102 |
| LB264032.002 | Monocyclic Aromatic Hydrocarbons | Benzene | mg/kg | 0.1 | 4.8 | 5 | 60 - 140 | 96 |
| | | Toluene | mg/kg | 0.1 | 4.8 | 5 | 60 - 140 | 95 |
| | | Ethylbenzene | mg/kg | 0.1 | 4.9 | 5 | 60 - 140 | 98 |
| | | m/p-xylene | mg/kg | 0.2 | 9.4 | 10 | 60 - 140 | 94 |
| | | o-xylene | mg/kg | 0.1 | 5.0 | 5 | 60 - 140 | 100 |
| | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 9.9 | 10 | 70 - 130 | 99 |
| | | d8-toluene (Surrogate) | mg/kg | - | 10.3 | 10 | 70 - 130 | 103 |
| | | Bromofluorobenzene (Surrogate) | mg/kg | - | 10.1 | 10 | 70 - 130 | 101 |
| LB264033.002 | Monocyclic Aromatic Hydrocarbons | Benzene | mg/kg | 0.1 | 5.2 | 5 | 60 - 140 | 104 |
| | | Toluene | mg/kg | 0.1 | 5.1 | 5 | 60 - 140 | 101 |
| | | Ethylbenzene | mg/kg | 0.1 | 5.1 | 5 | 60 - 140 | 101 |
| | | m/p-xylene | mg/kg | 0.2 | 9.8 | 10 | 60 - 140 | 98 |
| | | o-xylene | mg/kg | 0.1 | 5.3 | 5 | 60 - 140 | 106 |
| | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 12.0 | 10 | 70 - 130 | 120 |
| | | d8-toluene (Surrogate) | mg/kg | - | 11.4 | 10 | 70 - 130 | 114 |
| | | Bromofluorobenzene (Surrogate) | mg/kg | - | 10.7 | 10 | 70 - 130 | 107 |
| LB264034.002 | Monocyclic Aromatic Hydrocarbons | Benzene | mg/kg | 0.1 | 5.0 | 5 | 60 - 140 | 99 |
| | | Toluene | mg/kg | 0.1 | 4.7 | 5 | 60 - 140 | 95 |
| | | Ethylbenzene | mg/kg | 0.1 | 4.5 | 5 | 60 - 140 | 91 |
| | | m/p-xylene | mg/kg | 0.2 | 8.6 | 10 | 60 - 140 | 86 |
| | | o-xylene | mg/kg | 0.1 | 4.7 | 5 | 60 - 140 | 95 |
| | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 9.3 | 10 | 70 - 130 | 93 |
| | | d8-toluene (Surrogate) | mg/kg | - | 9.4 | 10 | 70 - 130 | 94 |
| | | Bromofluorobenzene (Surrogate) | mg/kg | - | 8.9 | 10 | 70 - 130 | 89 |
| LB264035.002 | Monocyclic Aromatic Hydrocarbons | Benzene | mg/kg | 0.1 | 5.1 | 5 | 60 - 140 | 102 |
| | | Toluene | mg/kg | 0.1 | 4.8 | 5 | 60 - 140 | 95 |
| | | Ethylbenzene | mg/kg | 0.1 | 4.7 | 5 | 60 - 140 | 93 |
| | | m/p-xylene | mg/kg | 0.2 | 7.8 | 10 | 60 - 140 | 78 |
| | | o-xylene | mg/kg | 0.1 | 4.8 | 5 | 60 - 140 | 95 |
| | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 12.4 | 10 | 70 - 130 | 124 |

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

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

## VOC's in Soil (continued)

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

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB264035.002 | Surrogates | d8-toluene (Surrogate) | mg/kg | - | 11.6 | 10 | 70 - 130 | 116 |
| | | Bromofluorobenzene (Surrogate) | mg/kg | - | 10.6 | 10 | 70 - 130 | 106 |

## VOCs in Water

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

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB264092.002 | Monocyclic | Benzene | µg/L | 0.5 | 53 | 45.45 | 60 - 140 | 116 |
| | Aromatic | Toluene | µg/L | 0.5 | 51 | 45.45 | 60 - 140 | 112 |
| | Hydrocarbons | Ethylbenzene | µg/L | 0.5 | 51 | 45.45 | 60 - 140 | 111 |
| | | m/p-xylene | µg/L | 1 | 100 | 90.9 | 60 - 140 | 111 |
| | | o-xylene | µg/L | 0.5 | 51 | 45.45 | 60 - 140 | 111 |
| | Surrogates | d4-1,2-dichloroethane (Surrogate) | µg/L | - | 10.8 | 10 | 60 - 140 | 108 |
| | | d8-toluene (Surrogate) | µg/L | - | 10.3 | 10 | 70 - 130 | 103 |
| | | Bromofluorobenzene (Surrogate) | µg/L | - | 10.1 | 10 | 70 - 130 | 101 |

## Volatile Petroleum Hydrocarbons in Soil

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

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB264031.002 | | TRH C6-C10 | mg/kg | 25 | 75 | 92.5 | 60 - 140 | 81 |
| | | TRH C6-C9 | mg/kg | 20 | 50 | 80 | 60 - 140 | 63 |
| | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 10.8 | 10 | 70 - 130 | 108 |
| | | Bromofluorobenzene (Surrogate) | mg/kg | - | 10.2 | 10 | 70 - 130 | 102 |
| | VPH F Bands | TRH C6-C10 minus BTEX (F1) | mg/kg | 25 | 43 | 62.5 | 60 - 140 | 69 |
| LB264032.002 | | TRH C6-C10 | mg/kg | 25 | 73 | 92.5 | 60 - 140 | 79 |
| | | TRH C6-C9 | mg/kg | 20 | 64 | 80 | 60 - 140 | 80 |
| | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 9.9 | 10 | 70 - 130 | 99 |
| | | Bromofluorobenzene (Surrogate) | mg/kg | - | 10.1 | 10 | 70 - 130 | 101 |
| | VPH F Bands | TRH C6-C10 minus BTEX (F1) | mg/kg | 25 | 44 | 62.5 | 60 - 140 | 71 |
| LB264033.002 | | TRH C6-C10 | mg/kg | 25 | 97 | 92.5 | 60 - 140 | 104 |
| | | TRH C6-C9 | mg/kg | 20 | 85 | 80 | 60 - 140 | 106 |
| | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 12.0 | 10 | 70 - 130 | 120 |
| | | Bromofluorobenzene (Surrogate) | mg/kg | - | 10.7 | 10 | 70 - 130 | 107 |
| | VPH F Bands | TRH C6-C10 minus BTEX (F1) | mg/kg | 25 | 66 | 62.5 | 60 - 140 | 106 |
| LB264034.002 | | TRH C6-C10 | mg/kg | 25 | 67 | 92.5 | 60 - 140 | 72 |
| | | TRH C6-C9 | mg/kg | 20 | 53 | 80 | 60 - 140 | 67 |
| | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 9.3 | 10 | 70 - 130 | 93 |
| | | Bromofluorobenzene (Surrogate) | mg/kg | - | 8.9 | 10 | 70 - 130 | 89 |
| | VPH F Bands | TRH C6-C10 minus BTEX (F1) | mg/kg | 25 | 39 | 62.5 | 60 - 140 | 63 |
| LB264035.002 | | TRH C6-C10 | mg/kg | 25 | 100 | 92.5 | 60 - 140 | 111 |
| | | TRH C6-C9 | mg/kg | 20 | 90 | 80 | 60 - 140 | 113 |
| | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 12.4 | 10 | 70 - 130 | 124 |
| | | Bromofluorobenzene (Surrogate) | mg/kg | - | 10.6 | 10 | 70 - 130 | 106 |
| | VPH F Bands | TRH C6-C10 minus BTEX (F1) | mg/kg | 25 | 76 | 62.5 | 60 - 140 | 122 |

## Volatile Petroleum Hydrocarbons in Water

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

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB264092.002 | | TRH C6-C10 | µg/L | 50 | 930 | 946.63 | 60 - 140 | 98 |
| | | TRH C6-C9 | µg/L | 40 | 800 | 818.71 | 60 - 140 | 98 |
| | Surrogates | d4-1,2-dichloroethane (Surrogate) | µg/L | - | 10.8 | 10 | 60 - 140 | 108 |
| | | d8-toluene (Surrogate) | µg/L | - | 10.3 | 10 | 70 - 130 | 103 |
| | | Bromofluorobenzene (Surrogate) | µg/L | - | 10.1 | 10 | 70 - 130 | 101 |
| | VPH F Bands | TRH C6-C10 minus BTEX (F1) | µg/L | 50 | 620 | 639.67 | 60 - 140 | 98 |

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

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

## Mercury (dissolved) in Water

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

| QC Sample | Sample Number | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|
| SE239041.095 | LB263955.004 | Mercury | mg/L | 0.0001 | 0.0017 | <0.0001 | 0.008 | 82 |

## Mercury in Soil

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

| QC Sample | Sample Number | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|
| SE239041.001 | LB264256.004 | Mercury | mg/kg | 0.05 | 0.19 | <0.05 | 0.2 | 92 |
| SE239041.020 | LB264257.004 | Mercury | mg/kg | 0.05 | 0.21 | <0.05 | 0.2 | 88 |
| SE239041.039 | LB264259.004 | Mercury | mg/kg | 0.05 | 0.25 | 0.06 | 0.2 | 98 |
| SE239041.058 | LB264260.004 | Mercury | mg/kg | 0.05 | 0.21 | <0.05 | 0.2 | 97 |
| SE239041.077 | LB264261.004 | Mercury | mg/kg | 0.05 | 0.20 | <0.05 | 0.2 | 86 |

## OC Pesticides in Soil

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

| QC Sample | Sample Number | | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|---|
| SE239041.001 | LB263988.004 | | Alpha BHC | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Hexachlorobenzene (HCB) | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Beta BHC | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Lindane (gamma BHC) | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Delta BHC | mg/kg | 0.1 | 0.2 | <0.1 | 0.2 | 94 |
| | | | Heptachlor | mg/kg | 0.1 | 0.2 | <0.1 | 0.2 | 95 |
| | | | Aldrin | mg/kg | 0.1 | 0.2 | <0.1 | 0.2 | 94 |
| | | | Isodrin | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Heptachlor epoxide | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Gamma Chlordane | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Alpha Chlordane | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Alpha Endosulfan | mg/kg | 0.2 | <0.2 | <0.2 | - | - |
| | | | o,p'-DDE* | 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 | 90 |
| | | | Endrin | mg/kg | 0.2 | <0.2 | <0.2 | 0.2 | 92 |
| | | | Beta Endosulfan | mg/kg | 0.2 | <0.2 | <0.2 | - | - |
| | | | o,p'-DDD* | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | p,p'-DDD | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Endrin aldehyde | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Endosulfan sulphate | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | o,p'-DDT* | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | p,p'-DDT | mg/kg | 0.1 | 0.1 | <0.1 | 0.2 | 60 |
| | | | Endrin ketone | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Methoxychlor | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Mirex | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | trans-Nonachlor | 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 | - | 0.17 | 0.17 | - | 111 |
| SE239041.020 | LB263989.004 | | Alpha BHC | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Hexachlorobenzene (HCB) | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Beta BHC | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Lindane (gamma BHC) | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Delta BHC | mg/kg | 0.1 | 0.2 | <0.1 | 0.2 | 94 |
| | | | Heptachlor | mg/kg | 0.1 | 0.2 | <0.1 | 0.2 | 97 |
| | | | Aldrin | mg/kg | 0.1 | 0.2 | <0.1 | 0.2 | 93 |
| | | | Isodrin | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Heptachlor epoxide | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Gamma Chlordane | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Alpha Chlordane | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Alpha Endosulfan | mg/kg | 0.2 | <0.2 | <0.2 | - | - |
| | | | o,p'-DDE* | 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 | 93 |
| | | | Endrin | mg/kg | 0.2 | <0.2 | <0.2 | 0.2 | 90 |
| | | | Beta Endosulfan | mg/kg | 0.2 | <0.2 | <0.2 | - | - |

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

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

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

| QC Sample | Sample Number | | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|---|
| SE239041.020 | LB263989.004 | | o,p'-DDD* | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | p,p'-DDD | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Endrin aldehyde | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Endosulfan sulphate | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | o,p'-DDT* | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | p,p'-DDT | mg/kg | 0.1 | 0.2 | <0.1 | 0.2 | 80 |
| | | | Endrin ketone | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Methoxychlor | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Mirex | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | trans-Nonachlor | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Total CLP OC Pesticides | mg/kg | 1 | 1 | <1 | - | - |
| | | | Total OC VIC EPA | mg/kg | 1 | 1 | <1 | - | - |
| | | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | mg/kg | - | 0.16 | 0.16 | - | 110 |
| SE239041.039 | LB263997.004 | | Alpha BHC | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Hexachlorobenzene (HCB) | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Beta BHC | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Lindane (gamma BHC) | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Delta BHC | mg/kg | 0.1 | 0.2 | <0.1 | 0.2 | 121 |
| | | | Heptachlor | mg/kg | 0.1 | 0.3 | <0.1 | 0.2 | 127 |
| | | | Aldrin | mg/kg | 0.1 | 0.2 | <0.1 | 0.2 | 123 |
| | | | Isodrin | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Heptachlor epoxide | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Gamma Chlordane | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Alpha Chlordane | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Alpha Endosulfan | mg/kg | 0.2 | <0.2 | <0.2 | - | - |
| | | | o,p'-DDE* | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | p,p'-DDE | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Dieldrin | mg/kg | 0.2 | 0.3 | <0.2 | 0.2 | 129 |
| | | | Endrin | mg/kg | 0.2 | 0.3 | <0.2 | 0.2 | 126 |
| | | | Beta Endosulfan | mg/kg | 0.2 | <0.2 | <0.2 | - | - |
| | | | o,p'-DDD* | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | p,p'-DDD | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Endrin aldehyde | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Endosulfan sulphate | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | o,p'-DDT* | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | p,p'-DDT | mg/kg | 0.1 | 0.2 | <0.1 | 0.2 | 112 |
| | | | Endrin ketone | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Methoxychlor | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Mirex | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | trans-Nonachlor | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Total CLP OC Pesticides | mg/kg | 1 | 1 | <1 | - | - |
| | | | Total OC VIC EPA | mg/kg | 1 | 1 | <1 | - | - |
| | | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | mg/kg | - | 0.15 | 0.15 | - | 99 |
| SE239041.058 | LB263998.004 | | Alpha BHC | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Hexachlorobenzene (HCB) | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Beta BHC | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Lindane (gamma BHC) | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Delta BHC | mg/kg | 0.1 | 0.2 | <0.1 | 0.2 | 97 |
| | | | Heptachlor | mg/kg | 0.1 | 0.2 | <0.1 | 0.2 | 107 |
| | | | Aldrin | mg/kg | 0.1 | 0.2 | <0.1 | 0.2 | 108 |
| | | | Isodrin | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Heptachlor epoxide | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Gamma Chlordane | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Alpha Chlordane | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Alpha Endosulfan | mg/kg | 0.2 | <0.2 | <0.2 | - | - |
| | | | o,p'-DDE* | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | p,p'-DDE | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Dieldrin | mg/kg | 0.2 | 0.2 | <0.2 | 0.2 | 106 |
| | | | Endrin | mg/kg | 0.2 | 0.2 | <0.2 | 0.2 | 113 |
| | | | Beta Endosulfan | mg/kg | 0.2 | <0.2 | <0.2 | - | - |
| | | | o,p'-DDD* | mg/kg | 0.1 | <0.1 | <0.1 | - | - |

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

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

## OC Pesticides in Soil (continued)

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

| QC Sample | Sample Number | | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|---|
| SE239041.058 | LB263998.004 | | p,p'-DDD | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Endrin aldehyde | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Endosulfan sulphate | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | o,p'-DDT* | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | p,p'-DDT | mg/kg | 0.1 | 0.2 | <0.1 | 0.2 | 121 |
| | | | Endrin ketone | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Methoxychlor | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Mirex | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | trans-Nonachlor | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Total CLP OC Pesticides | mg/kg | 1 | 1 | <1 | - | - |
| | | | Total OC VIC EPA | mg/kg | 1 | 1 | <1 | - | - |
| | | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | mg/kg | - | 0.16 | 0.16 | - | 105 |
| SE239041.077 | LB263999.004 | | Alpha BHC | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Hexachlorobenzene (HCB) | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Beta BHC | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Lindane (gamma BHC) | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Delta BHC | mg/kg | 0.1 | 0.2 | <0.1 | 0.2 | 93 |
| | | | Heptachlor | mg/kg | 0.1 | 0.2 | <0.1 | 0.2 | 105 |
| | | | Aldrin | mg/kg | 0.1 | 0.2 | <0.1 | 0.2 | 105 |
| | | | Isodrin | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Heptachlor epoxide | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Gamma Chlordane | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Alpha Chlordane | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Alpha Endosulfan | mg/kg | 0.2 | <0.2 | <0.2 | - | - |
| | | | o,p'-DDE* | 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 | 105 |
| | | | Endrin | mg/kg | 0.2 | 0.2 | <0.2 | 0.2 | 106 |
| | | | Beta Endosulfan | mg/kg | 0.2 | <0.2 | <0.2 | - | - |
| | | | o,p'-DDD* | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | p,p'-DDD | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Endrin aldehyde | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Endosulfan sulphate | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | o,p'-DDT* | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | p,p'-DDT | mg/kg | 0.1 | 0.2 | <0.1 | 0.2 | 108 |
| | | | Endrin ketone | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Methoxychlor | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Mirex | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | trans-Nonachlor | 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 | - | 0.17 | 0.17 | - | 112 |

## OP Pesticides in Soil

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

| QC Sample | Sample Number | | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|---|
| SE239041.001 | LB263988.004 | | Azinphos-methyl (Guthion) | mg/kg | 0.2 | <0.2 | <0.2 | - | - |
| | | | Bromophos Ethyl | mg/kg | 0.2 | <0.2 | <0.2 | - | - |
| | | | Chlorpyrifos (Chlorpyrifos Ethyl) | mg/kg | 0.2 | 1.9 | <0.2 | 2 | 95 |
| | | | Diazinon (Dimpylate) | mg/kg | 0.5 | 2.1 | <0.5 | 2 | 106 |
| | | | Dichlorvos | mg/kg | 0.5 | 1.6 | <0.5 | 2 | 80 |
| | | | Dimethoate | mg/kg | 0.5 | <0.5 | <0.5 | - | - |
| | | | Ethion | mg/kg | 0.2 | 2.0 | <0.2 | 2 | 98 |
| | | | Fenitrothion | mg/kg | 0.2 | <0.2 | <0.2 | - | - |
| | | | Malathion | mg/kg | 0.2 | <0.2 | <0.2 | - | - |
| | | | Methidathion | mg/kg | 0.5 | <0.5 | <0.5 | - | - |
| | | | Parathion-ethyl (Parathion) | mg/kg | 0.2 | <0.2 | <0.2 | - | - |
| | | | Total OP Pesticides* | mg/kg | 1.7 | 7.6 | <1.7 | - | - |
| | | Surrogates | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.6 | 0.4 | - | 114 |
| | | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | - | 102 |
| SE239041.020 | LB263989.004 | | Azinphos-methyl (Guthion) | mg/kg | 0.2 | <0.2 | <0.2 | - | - |
| | | | Bromophos Ethyl | mg/kg | 0.2 | <0.2 | <0.2 | - | - |

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

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

## OP Pesticides in Soil (continued)

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

| QC Sample | Sample Number | | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|---|
| SE239041.020 | LB263989.004 | | Chlorpyrifos (Chlorpyrifos Ethyl) | mg/kg | 0.2 | 1.9 | <0.2 | 2 | 93 |
| | | | Diazinon (Dimpylate) | mg/kg | 0.5 | 1.9 | <0.5 | 2 | 94 |
| | | | Dichlorvos | mg/kg | 0.5 | 1.7 | <0.5 | 2 | 84 |
| | | | Dimethoate | mg/kg | 0.5 | <0.5 | <0.5 | - | - |
| | | | Ethion | mg/kg | 0.2 | 1.6 | <0.2 | 2 | 79 |
| | | | Fenitrothion | mg/kg | 0.2 | <0.2 | <0.2 | - | - |
| | | | Malathion | mg/kg | 0.2 | <0.2 | <0.2 | - | - |
| | | | Methidathion | mg/kg | 0.5 | <0.5 | <0.5 | - | - |
| | | | Parathion-ethyl (Parathion) | mg/kg | 0.2 | <0.2 | <0.2 | - | - |
| | | | Total OP Pesticides* | mg/kg | 1.7 | 7.0 | <1.7 | - | - |
| | | Surrogates | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | - | 97 |
| | | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | - | 102 |
| SE239041.039 | LB263997.004 | | Azinphos-methyl (Guthion) | mg/kg | 0.2 | <0.2 | <0.2 | - | - |
| | | | Bromophos Ethyl | mg/kg | 0.2 | <0.2 | <0.2 | - | - |
| | | | Chlorpyrifos (Chlorpyrifos Ethyl) | mg/kg | 0.2 | 1.6 | <0.2 | 2 | 81 |
| | | | Diazinon (Dimpylate) | mg/kg | 0.5 | 1.6 | <0.5 | 2 | 80 |
| | | | Dichlorvos | mg/kg | 0.5 | 1.5 | <0.5 | 2 | 73 |
| | | | Dimethoate | mg/kg | 0.5 | <0.5 | <0.5 | - | - |
| | | | Ethion | mg/kg | 0.2 | 1.3 | <0.2 | 2 | 63 |
| | | | Fenitrothion | mg/kg | 0.2 | <0.2 | <0.2 | - | - |
| | | | Malathion | mg/kg | 0.2 | <0.2 | <0.2 | - | - |
| | | | Methidathion | mg/kg | 0.5 | <0.5 | <0.5 | - | - |
| | | | Parathion-ethyl (Parathion) | mg/kg | 0.2 | <0.2 | <0.2 | - | - |
| | | | Total OP Pesticides* | mg/kg | 1.7 | 6.0 | <1.7 | - | - |
| | | Surrogates | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | - | 92 |
| | | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | - | 96 |
| SE239041.058 | LB263998.004 | | Azinphos-methyl (Guthion) | mg/kg | 0.2 | <0.2 | <0.2 | - | - |
| | | | Bromophos Ethyl | mg/kg | 0.2 | <0.2 | <0.2 | - | - |
| | | | Chlorpyrifos (Chlorpyrifos Ethyl) | mg/kg | 0.2 | 1.6 | <0.2 | 2 | 80 |
| | | | Diazinon (Dimpylate) | mg/kg | 0.5 | 1.6 | <0.5 | 2 | 80 |
| | | | Dichlorvos | mg/kg | 0.5 | 1.4 | <0.5 | 2 | 70 |
| | | | Dimethoate | mg/kg | 0.5 | <0.5 | <0.5 | - | - |
| | | | Ethion | mg/kg | 0.2 | 1.3 | <0.2 | 2 | 63 |
| | | | Fenitrothion | mg/kg | 0.2 | <0.2 | <0.2 | - | - |
| | | | Malathion | mg/kg | 0.2 | <0.2 | <0.2 | - | - |
| | | | Methidathion | mg/kg | 0.5 | <0.5 | <0.5 | - | - |
| | | | Parathion-ethyl (Parathion) | mg/kg | 0.2 | <0.2 | <0.2 | - | - |
| | | | Total OP Pesticides* | mg/kg | 1.7 | 5.9 | <1.7 | - | - |
| | | Surrogates | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.4 | 0.5 | - | 89 |
| | | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | - | 94 |
| SE239041.077 | LB263999.004 | | Azinphos-methyl (Guthion) | mg/kg | 0.2 | <0.2 | <0.2 | - | - |
| | | | Bromophos Ethyl | mg/kg | 0.2 | <0.2 | <0.2 | - | - |
| | | | Chlorpyrifos (Chlorpyrifos Ethyl) | mg/kg | 0.2 | 1.9 | <0.2 | 2 | 92 |
| | | | Diazinon (Dimpylate) | mg/kg | 0.5 | 2.0 | <0.5 | 2 | 98 |
| | | | Dichlorvos | mg/kg | 0.5 | 1.5 | <0.5 | 2 | 73 |
| | | | Dimethoate | mg/kg | 0.5 | <0.5 | <0.5 | - | - |
| | | | Ethion | mg/kg | 0.2 | 1.7 | <0.2 | 2 | 86 |
| | | | Fenitrothion | mg/kg | 0.2 | <0.2 | <0.2 | - | - |
| | | | Malathion | mg/kg | 0.2 | <0.2 | <0.2 | - | - |
| | | | Methidathion | mg/kg | 0.5 | <0.5 | <0.5 | - | - |
| | | | Parathion-ethyl (Parathion) | mg/kg | 0.2 | <0.2 | <0.2 | - | - |
| | | | Total OP Pesticides* | mg/kg | 1.7 | 7.0 | <1.7 | - | - |
| | | Surrogates | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | - | 98 |
| | | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | - | 98 |

## PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

| QC Sample | Sample Number | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|
| SE239041.001 | LB263988.004 | Naphthalene | mg/kg | 0.1 | 4.9 | <0.1 | 4 | 122 |
| | | 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 | 4.9 | <0.1 | 4 | 123 |

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

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

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

| QC Sample | Sample Number | | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|---|
| SE239041.001 | LB263988.004 | | Acenaphthene | mg/kg | 0.1 | 4.7 | <0.1 | 4 | 117 |
| | | | Fluorene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Phenanthrene | mg/kg | 0.1 | 4.7 | <0.1 | 4 | 116 |
| | | | Anthracene | mg/kg | 0.1 | 4.5 | <0.1 | 4 | 111 |
| | | | Fluoranthene | mg/kg | 0.1 | 4.4 | <0.1 | 4 | 108 |
| | | | Pyrene | mg/kg | 0.1 | 4.7 | <0.1 | 4 | 116 |
| | | | Benzo(a)anthracene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Chrysene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Benzo(b&j)fluoranthene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Benzo(k)fluoranthene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Benzo(a)pyrene | mg/kg | 0.1 | 4.3 | <0.1 | 4 | 108 |
| | | | Indeno(1,2,3-cd)pyrene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Dibenzo(ah)anthracene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Benzo(ghi)perylene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=0* | TEQ (mg/kg) | 0.2 | 4.3 | <0.2 | - | - |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=LOR/2* | TEQ (mg/kg) | 0.2 | 4.4 | <0.2 | - | - |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=LOR* | TEQ (mg/kg) | 0.3 | 4.5 | <0.3 | - | - |
| | | | Total PAH (18) | mg/kg | 0.8 | 37 | <0.8 | - | - |
| | | Surrogates | d5-nitrobenzene (Surrogate) | mg/kg | - | 0.6 | 0.5 | - | 114 |
| | | | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.6 | 0.4 | - | 114 |
| | | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | - | 102 |
| SE239041.020 | LB263989.004 | | Naphthalene | mg/kg | 0.1 | 4.6 | <0.1 | 4 | 115 |
| | | | 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 | 4.5 | <0.1 | 4 | 111 |
| | | | Acenaphthene | mg/kg | 0.1 | 4.7 | <0.1 | 4 | 116 |
| | | | Fluorene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Phenanthrene | mg/kg | 0.1 | 4.7 | <0.1 | 4 | 118 |
| | | | Anthracene | mg/kg | 0.1 | 4.6 | <0.1 | 4 | 114 |
| | | | Fluoranthene | mg/kg | 0.1 | 4.6 | <0.1 | 4 | 114 |
| | | | Pyrene | mg/kg | 0.1 | 4.7 | <0.1 | 4 | 117 |
| | | | Benzo(a)anthracene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Chrysene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Benzo(b&j)fluoranthene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Benzo(k)fluoranthene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Benzo(a)pyrene | mg/kg | 0.1 | 4.2 | <0.1 | 4 | 104 |
| | | | Indeno(1,2,3-cd)pyrene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Dibenzo(ah)anthracene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Benzo(ghi)perylene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=0* | TEQ (mg/kg) | 0.2 | 4.2 | <0.2 | - | - |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=LOR/2* | TEQ (mg/kg) | 0.2 | 4.3 | <0.2 | - | - |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=LOR* | TEQ (mg/kg) | 0.3 | 4.3 | <0.3 | - | - |
| | | | Total PAH (18) | mg/kg | 0.8 | 37 | <0.8 | - | - |
| | | Surrogates | d5-nitrobenzene (Surrogate) | mg/kg | - | 0.5 | 0.5 | - | 108 |
| | | | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | - | 97 |
| | | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | - | 102 |
| SE239041.039 | LB263997.004 | | Naphthalene | mg/kg | 0.1 | 4.4 | <0.1 | 4 | 110 |
| | | | 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 | 4.2 | <0.1 | 4 | 103 |
| | | | Acenaphthene | mg/kg | 0.1 | 4.4 | <0.1 | 4 | 110 |
| | | | Fluorene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Phenanthrene | mg/kg | 0.1 | 4.5 | <0.1 | 4 | 111 |
| | | | Anthracene | mg/kg | 0.1 | 4.3 | <0.1 | 4 | 106 |
| | | | Fluoranthene | mg/kg | 0.1 | 4.2 | <0.1 | 4 | 105 |
| | | | Pyrene | mg/kg | 0.1 | 4.5 | <0.1 | 4 | 111 |
| | | | Benzo(a)anthracene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Chrysene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Benzo(b&j)fluoranthene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Benzo(k)fluoranthene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Benzo(a)pyrene | mg/kg | 0.1 | 3.8 | <0.1 | 4 | 95 |

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

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

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

| QC Sample | Sample Number | | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|---|
| SE239041.039 | LB263997.004 | | 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/2* | TEQ (mg/kg) | 0.2 | 3.9 | <0.2 | - | - |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=LOR* | TEQ (mg/kg) | 0.3 | 4.0 | <0.3 | - | - |
| | | | Total PAH (18) | mg/kg | 0.8 | 34 | <0.8 | - | - |
| | | Surrogates | d5-nitrobenzene (Surrogate) | mg/kg | - | 0.5 | 0.5 | - | 102 |
| | | | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | - | 92 |
| | | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | - | 96 |
| SE239041.058 | LB263998.004 | | Naphthalene | mg/kg | 0.1 | 4.3 | <0.1 | 4 | 108 |
| | | | 2-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | 1-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Acenaphthylene | mg/kg | 0.1 | 4.1 | <0.1 | 4 | 102 |
| | | | Acenaphthene | mg/kg | 0.1 | 4.3 | <0.1 | 4 | 108 |
| | | | Fluorene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Phenanthrene | mg/kg | 0.1 | 4.3 | <0.1 | 4 | 108 |
| | | | Anthracene | mg/kg | 0.1 | 4.2 | <0.1 | 4 | 104 |
| | | | Fluoranthene | mg/kg | 0.1 | 4.1 | <0.1 | 4 | 103 |
| | | | Pyrene | mg/kg | 0.1 | 4.4 | <0.1 | 4 | 110 |
| | | | Benzo(a)anthracene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Chrysene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Benzo(b&j)fluoranthene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Benzo(k)fluoranthene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Benzo(a)pyrene | mg/kg | 0.1 | 3.8 | <0.1 | 4 | 94 |
| | | | Indeno(1,2,3-cd)pyrene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Dibenzo(ah)anthracene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Benzo(ghi)perylene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=0* | TEQ (mg/kg) | 0.2 | 3.8 | <0.2 | - | - |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=LOR/2* | TEQ (mg/kg) | 0.2 | 3.9 | <0.2 | - | - |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=LOR* | TEQ (mg/kg) | 0.3 | 3.9 | <0.3 | - | - |
| | | | Total PAH (18) | mg/kg | 0.8 | 34 | <0.8 | - | - |
| | | Surrogates | d5-nitrobenzene (Surrogate) | mg/kg | - | 0.5 | 0.5 | - | 100 |
| | | | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.4 | 0.5 | - | 89 |
| | | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | - | 94 |
| SE239041.077 | LB263999.004 | | Naphthalene | mg/kg | 0.1 | 4.4 | <0.1 | 4 | 110 |
| | | | 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 | 4.3 | <0.1 | 4 | 107 |
| | | | Acenaphthene | mg/kg | 0.1 | 4.4 | <0.1 | 4 | 109 |
| | | | Fluorene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Phenanthrene | mg/kg | 0.1 | 4.4 | <0.1 | 4 | 109 |
| | | | Anthracene | mg/kg | 0.1 | 4.3 | <0.1 | 4 | 106 |
| | | | Fluoranthene | mg/kg | 0.1 | 4.2 | <0.1 | 4 | 105 |
| | | | Pyrene | mg/kg | 0.1 | 4.4 | <0.1 | 4 | 108 |
| | | | Benzo(a)anthracene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Chrysene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Benzo(b&j)fluoranthene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Benzo(k)fluoranthene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Benzo(a)pyrene | mg/kg | 0.1 | 4.0 | <0.1 | 4 | 100 |
| | | | Indeno(1,2,3-cd)pyrene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Dibenzo(ah)anthracene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Benzo(ghi)perylene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=0* | TEQ (mg/kg) | 0.2 | 4.0 | <0.2 | - | - |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=LOR/2* | TEQ (mg/kg) | 0.2 | 4.1 | <0.2 | - | - |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=LOR* | TEQ (mg/kg) | 0.3 | 4.2 | <0.3 | - | - |
| | | | Total PAH (18) | mg/kg | 0.8 | 34 | <0.8 | - | - |
| | | Surrogates | d5-nitrobenzene (Surrogate) | mg/kg | - | 0.5 | 0.5 | - | 105 |
| | | | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | - | 98 |
| | | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | - | 98 |

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

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

## PCBs in Soil

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

| QC Sample | Sample Number | | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|---|
| SE239041.001 | LB263988.004 | | 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 | 107 |
| | | | 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 | TCMX (Surrogate) | mg/kg | - | 0 | 0 | - | 107 |
| SE239041.020 | LB263989.004 | | Arochlor 1016 | mg/kg | 0.2 | <0.2 | <0.2 | - | - |
| | | | Arochlor 1221 | mg/kg | 0.2 | <0.2 | <0.2 | - | - |
| | | | Arochlor 1232 | mg/kg | 0.2 | <0.2 | <0.2 | - | - |
| | | | Arochlor 1242 | mg/kg | 0.2 | <0.2 | <0.2 | - | - |
| | | | Arochlor 1248 | mg/kg | 0.2 | <0.2 | <0.2 | - | - |
| | | | Arochlor 1254 | mg/kg | 0.2 | <0.2 | <0.2 | - | - |
| | | | Arochlor 1260 | mg/kg | 0.2 | 0.5 | <0.2 | 0.4 | 124 |
| | | | 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 | TCMX (Surrogate) | mg/kg | - | 0 | 0 | - | 110 |
| SE239041.039 | LB263997.004 | | Arochlor 1016 | mg/kg | 0.2 | <0.2 | <0.2 | - | - |
| | | | Arochlor 1221 | mg/kg | 0.2 | <0.2 | <0.2 | - | - |
| | | | Arochlor 1232 | mg/kg | 0.2 | <0.2 | <0.2 | - | - |
| | | | Arochlor 1242 | mg/kg | 0.2 | <0.2 | <0.2 | - | - |
| | | | Arochlor 1248 | mg/kg | 0.2 | <0.2 | <0.2 | - | - |
| | | | Arochlor 1254 | mg/kg | 0.2 | <0.2 | <0.2 | - | - |
| | | | Arochlor 1260 | mg/kg | 0.2 | 0.5 | <0.2 | 0.4 | 132 |
| | | | 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 | TCMX (Surrogate) | mg/kg | - | 0 | 0 | - | 99 |
| SE239041.058 | LB263998.004 | | Arochlor 1016 | mg/kg | 0.2 | <0.2 | <0.2 | - | - |
| | | | Arochlor 1221 | mg/kg | 0.2 | <0.2 | <0.2 | - | - |
| | | | Arochlor 1232 | mg/kg | 0.2 | <0.2 | <0.2 | - | - |
| | | | Arochlor 1242 | mg/kg | 0.2 | <0.2 | <0.2 | - | - |
| | | | Arochlor 1248 | mg/kg | 0.2 | <0.2 | <0.2 | - | - |
| | | | Arochlor 1254 | mg/kg | 0.2 | <0.2 | <0.2 | - | - |
| | | | Arochlor 1260 | mg/kg | 0.2 | 0.5 | <0.2 | 0.4 | 132 |
| | | | 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 | TCMX (Surrogate) | mg/kg | - | 0 | 0 | - | 105 |
| SE239041.077 | LB263999.004 | | Arochlor 1016 | mg/kg | 0.2 | <0.2 | <0.2 | - | - |
| | | | Arochlor 1221 | mg/kg | 0.2 | <0.2 | <0.2 | - | - |
| | | | Arochlor 1232 | mg/kg | 0.2 | <0.2 | <0.2 | - | - |
| | | | Arochlor 1242 | mg/kg | 0.2 | <0.2 | <0.2 | - | - |
| | | | Arochlor 1248 | mg/kg | 0.2 | <0.2 | <0.2 | - | - |
| | | | Arochlor 1254 | mg/kg | 0.2 | <0.2 | <0.2 | - | - |
| | | | Arochlor 1260 | mg/kg | 0.2 | 0.5 | <0.2 | 0.4 | 125 |
| | | | 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 | TCMX (Surrogate) | mg/kg | - | 0 | 0 | - | 113 |

## 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% |
|---|---|---|---|---|---|---|---|---|
| SE239041.001 | LB264249.004 | Arsenic, As | mg/kg | 1 | 47 | 4 | 50 | 86 |
| | | Cadmium, Cd | mg/kg | 0.3 | 41 | <0.3 | 50 | 82 |
| | | Chromium, Cr | mg/kg | 0.5 | 120 | 89 | 50 | 54 ④ |

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

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

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

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

| QC Sample | Sample Number | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|
| SE239041.001 | LB264249.004 | Copper, Cu | mg/kg | 0.5 | 50 | 5.8 | 50 | 89 |
| | | Nickel, Ni | mg/kg | 0.5 | 52 | 8.7 | 50 | 86 |
| | | Lead, Pb | mg/kg | 1 | 61 | 16 | 50 | 91 |
| | | Zinc, Zn | mg/kg | 2 | 50 | 7.5 | 50 | 85 |
| SE239041.020 | LB264250.004 | Arsenic, As | mg/kg | 1 | 43 | 2 | 50 | 82 |
| | | Cadmium, Cd | mg/kg | 0.3 | 40 | <0.3 | 50 | 79 |
| | | Chromium, Cr | mg/kg | 0.5 | 110 | 93 | 50 | 41 ④ |
| | | Copper, Cu | mg/kg | 0.5 | 64 | 27 | 50 | 74 |
| | | Nickel, Ni | mg/kg | 0.5 | 79 | 48 | 50 | 61 ④ |
| | | Lead, Pb | mg/kg | 1 | 46 | 9 | 50 | 74 |
| | | Zinc, Zn | mg/kg | 2 | 88 | 71 | 50 | 35 ④ |
| SE239041.039 | LB264247.004 | Arsenic, As | mg/kg | 1 | 54 | 3 | 50 | 102 |
| | | Cadmium, Cd | mg/kg | 0.3 | 46 | <0.3 | 50 | 93 |
| | | Chromium, Cr | mg/kg | 0.5 | 55 | 4.8 | 50 | 100 |
| | | Copper, Cu | mg/kg | 0.5 | 53 | 2.0 | 50 | 102 |
| | | Nickel, Ni | mg/kg | 0.5 | 51 | 1.1 | 50 | 100 |
| | | Lead, Pb | mg/kg | 1 | 57 | 7 | 50 | 100 |
| | | Zinc, Zn | mg/kg | 2 | 58 | 8.6 | 50 | 98 |
| SE239041.058 | LB264253.004 | Arsenic, As | mg/kg | 1 | 49 | 4 | 50 | 90 |
| | | Cadmium, Cd | mg/kg | 0.3 | 46 | <0.3 | 50 | 91 |
| | | Chromium, Cr | mg/kg | 0.5 | 190 | 130 | 50 | 110 |
| | | Copper, Cu | mg/kg | 0.5 | 74 | 24 | 50 | 100 |
| | | Nickel, Ni | mg/kg | 0.5 | 130 | 71 | 50 | 121 |
| | | Lead, Pb | mg/kg | 1 | 49 | 3 | 50 | 92 |
| | | Zinc, Zn | mg/kg | 2 | 85 | 32 | 50 | 106 |
| SE239041.077 | LB264254.004 | Arsenic, As | mg/kg | 1 | 48 | 4 | 50 | 89 |
| | | Cadmium, Cd | mg/kg | 0.3 | 44 | <0.3 | 50 | 89 |
| | | Chromium, Cr | mg/kg | 0.5 | 69 | 25 | 50 | 89 |
| | | Copper, Cu | mg/kg | 0.5 | 65 | 20 | 50 | 89 |
| | | Nickel, Ni | mg/kg | 0.5 | 52 | 7.0 | 50 | 91 |
| | | Lead, Pb | mg/kg | 1 | 55 | 10 | 50 | 90 |
| | | Zinc, Zn | mg/kg | 2 | 61 | 17 | 50 | 88 |

## Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

| QC Sample | Sample Number | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|
| SE239041.095 | LB263915.004 | Arsenic | µg/L | 1 | 21 | 2 | 20 | 99 |
| | | Cadmium | µg/L | 0.1 | 21 | <0.1 | 20 | 103 |
| | | Chromium | µg/L | 1 | 23 | 3 | 20 | 100 |
| | | Copper | µg/L | 1 | 23 | 2 | 20 | 103 |
| | | Lead | µg/L | 1 | 19 | <1 | 20 | 95 |
| | | Nickel | µg/L | 1 | 27 | 7 | 20 | 102 |
| | | Zinc | µg/L | 5 | 26 | <5 | 20 | 107 |

## TRH (Total Recoverable Hydrocarbons) in Soil

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

| QC Sample | Sample Number | | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|---|
| SE239041.001 | LB263988.004 | | TRH C10-C14 | mg/kg | 20 | 42 | <20 | 40 | 105 |
| | | | TRH C15-C28 | mg/kg | 45 | 47 | <45 | 40 | 97 |
| | | | TRH C29-C36 | mg/kg | 45 | <45 | <45 | 40 | 77 |
| | | | TRH C37-C40 | mg/kg | 100 | <100 | <100 | - | - |
| | | | TRH C10-C36 Total | mg/kg | 110 | <110 | <110 | - | - |
| | | | TRH >C10-C40 Total (F bands) | mg/kg | 210 | <210 | <210 | - | - |
| | | TRH F Bands | TRH >C10-C16 | mg/kg | 25 | 42 | <25 | 40 | 95 |
| | | | TRH >C10-C16 - Naphthalene (F2) | mg/kg | 25 | 42 | <25 | - | - |
| | | | TRH >C16-C34 (F3) | mg/kg | 90 | <90 | <90 | 40 | 66 |
| | | | TRH >C34-C40 (F4) | mg/kg | 120 | <120 | <120 | - | - |
| SE239041.020 | LB263989.004 | | TRH C10-C14 | mg/kg | 20 | 44 | <20 | 40 | 110 |
| | | | TRH C15-C28 | mg/kg | 45 | 46 | <45 | 40 | 115 |
| | | | TRH C29-C36 | mg/kg | 45 | <45 | <45 | 40 | 100 |
| | | | TRH C37-C40 | mg/kg | 100 | <100 | <100 | - | - |
| | | | TRH C10-C36 Total | mg/kg | 110 | <110 | <110 | - | - |
| | | | TRH >C10-C40 Total (F bands) | mg/kg | 210 | <210 | <210 | - | - |
| | | TRH F | TRH >C10-C16 | mg/kg | 25 | 46 | <25 | 40 | 115 |

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

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

## TRH (Total Recoverable Hydrocarbons) in Soil (continued)

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

| QC Sample | Sample Number | | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|---|
| SE239041.020 | LB263989.004 | TRH F Bands | TRH >C10-C16 - Naphthalene (F2) | mg/kg | 25 | 46 | <25 | - | - |
| | | | TRH >C16-C34 (F3) | mg/kg | 90 | <90 | <90 | 40 | 110 |
| | | | TRH >C34-C40 (F4) | mg/kg | 120 | <120 | <120 | - | - |
| SE239041.039 | LB263997.004 | | TRH C10-C14 | mg/kg | 20 | 46 | <20 | 40 | 115 |
| | | | TRH C15-C28 | mg/kg | 45 | <45 | <45 | 40 | 110 |
| | | | TRH C29-C36 | mg/kg | 45 | <45 | <45 | 40 | 95 |
| | | | TRH C37-C40 | mg/kg | 100 | <100 | <100 | - | - |
| | | | TRH C10-C36 Total | mg/kg | 110 | <110 | <110 | - | - |
| | | | TRH >C10-C40 Total (F bands) | mg/kg | 210 | <210 | <210 | - | - |
| | | TRH F Bands | TRH >C10-C16 | mg/kg | 25 | 46 | <25 | 40 | 115 |
| | | | TRH >C10-C16 - Naphthalene (F2) | mg/kg | 25 | 46 | <25 | - | - |
| | | | TRH >C16-C34 (F3) | mg/kg | 90 | <90 | <90 | 40 | 110 |
| | | | TRH >C34-C40 (F4) | mg/kg | 120 | <120 | <120 | - | - |
| SE239041.058 | LB263998.004 | | TRH C10-C14 | mg/kg | 20 | 44 | <20 | 40 | 110 |
| | | | TRH C15-C28 | mg/kg | 45 | 46 | <45 | 40 | 115 |
| | | | TRH C29-C36 | mg/kg | 45 | <45 | <45 | 40 | 85 |
| | | | TRH C37-C40 | mg/kg | 100 | <100 | <100 | - | - |
| | | | TRH C10-C36 Total | mg/kg | 110 | <110 | <110 | - | - |
| | | | TRH >C10-C40 Total (F bands) | mg/kg | 210 | <210 | <210 | - | - |
| | | TRH F Bands | TRH >C10-C16 | mg/kg | 25 | 44 | <25 | 40 | 110 |
| | | | TRH >C10-C16 - Naphthalene (F2) | mg/kg | 25 | 44 | <25 | - | - |
| | | | TRH >C16-C34 (F3) | mg/kg | 90 | <90 | <90 | 40 | 105 |
| | | | TRH >C34-C40 (F4) | mg/kg | 120 | <120 | <120 | - | - |
| SE239041.077 | LB263999.004 | | TRH C10-C14 | mg/kg | 20 | 42 | <20 | 40 | 105 |
| | | | TRH C15-C28 | mg/kg | 45 | <45 | <45 | 40 | 100 |
| | | | TRH C29-C36 | mg/kg | 45 | <45 | <45 | 40 | 85 |
| | | | TRH C37-C40 | mg/kg | 100 | <100 | <100 | - | - |
| | | | TRH C10-C36 Total | mg/kg | 110 | <110 | <110 | - | - |
| | | | TRH >C10-C40 Total (F bands) | mg/kg | 210 | <210 | <210 | - | - |
| | | TRH F Bands | TRH >C10-C16 | mg/kg | 25 | 42 | <25 | 40 | 105 |
| | | | TRH >C10-C16 - Naphthalene (F2) | mg/kg | 25 | 42 | <25 | - | - |
| | | | TRH >C16-C34 (F3) | mg/kg | 90 | <90 | <90 | 40 | 100 |
| | | | 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% |
|---|---|---|---|---|---|---|---|---|---|
| SE239041.001 | LB264031.004 | Monocyclic Aromatic Hydrocarbons | Benzene | mg/kg | 0.1 | 5.5 | <0.1 | 5 | 109 |
| | | | Toluene | mg/kg | 0.1 | 6.9 | <0.1 | 5 | 137 |
| | | | Ethylbenzene | mg/kg | 0.1 | 5.8 | <0.1 | 5 | 115 |
| | | | m/p-xylene | mg/kg | 0.2 | 12 | <0.2 | 10 | 121 |
| | | | o-xylene | mg/kg | 0.1 | 6.5 | <0.1 | 5 | 130 |
| | | Polycyclic | Naphthalene (VOC)* | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 9.9 | 10.0 | 10 | 99 |
| | | | d8-toluene (Surrogate) | mg/kg | - | 9.1 | 7.5 | 10 | 91 |
| | | | Bromofluorobenzene (Surrogate) | mg/kg | - | 9.8 | 8.3 | 10 | 98 |
| | | Totals | Total BTEX* | mg/kg | 0.6 | 37 | <0.6 | - | - |
| | | | Total Xylenes* | mg/kg | 0.3 | 19 | <0.3 | - | - |
| SE239041.020 | LB264032.004 | Monocyclic Aromatic Hydrocarbons | Benzene | mg/kg | 0.1 | 5.8 | <0.1 | 5 | 116 |
| | | | Toluene | mg/kg | 0.1 | 5.9 | <0.1 | 5 | 117 |
| | | | Ethylbenzene | mg/kg | 0.1 | 6.1 | <0.1 | 5 | 121 |
| | | | m/p-xylene | mg/kg | 0.2 | 12 | <0.2 | 10 | 118 |
| | | | o-xylene | mg/kg | 0.1 | 6.3 | <0.1 | 5 | 126 |
| | | Polycyclic | Naphthalene (VOC)* | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 8.6 | 8.6 | 10 | 86 |
| | | | d8-toluene (Surrogate) | mg/kg | - | 8.7 | 8.9 | 10 | 87 |
| | | | Bromofluorobenzene (Surrogate) | mg/kg | - | 8.9 | 7.9 | 10 | 89 |
| | | Totals | Total BTEX* | mg/kg | 0.6 | 36 | <0.6 | - | - |
| | | | Total Xylenes* | mg/kg | 0.3 | 18 | <0.3 | - | - |
| SE239041.039 | LB264033.004 | Monocyclic Aromatic Hydrocarbons | Benzene | mg/kg | 0.1 | 5.2 | <0.1 | 5 | 105 |
| | | | Toluene | mg/kg | 0.1 | 5.3 | <0.1 | 5 | 107 |
| | | | Ethylbenzene | mg/kg | 0.1 | 5.2 | <0.1 | 5 | 104 |

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

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

## VOC's in Soil (continued)

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

| QC Sample | Sample Number | | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|---|
| SE239041.039 | LB264033.004 | Monocyclic | m/p-xylene | mg/kg | 0.2 | 10 | <0.2 | 10 | 100 |
| | | Aromatic | o-xylene | mg/kg | 0.1 | 5.4 | <0.1 | 5 | 108 |
| | | Polycyclic | Naphthalene (VOC)* | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 11.4 | 9.6 | 10 | 114 |
| | | | d8-toluene (Surrogate) | mg/kg | - | 12.4 | 9.5 | 10 | 124 |
| | | | Bromofluorobenzene (Surrogate) | mg/kg | - | 9.8 | 9.7 | 10 | 98 |
| | | Totals | Total BTEX* | mg/kg | 0.6 | 31 | <0.6 | - | - |
| | | | Total Xylenes* | mg/kg | 0.3 | 16 | <0.3 | - | - |
| SE239041.058 | LB264034.004 | Monocyclic | Benzene | mg/kg | 0.1 | 5.1 | <0.1 | 5 | 103 |
| | | Aromatic | Toluene | mg/kg | 0.1 | 5.1 | <0.1 | 5 | 101 |
| | | Hydrocarbons | Ethylbenzene | mg/kg | 0.1 | 5.0 | <0.1 | 5 | 100 |
| | | | m/p-xylene | mg/kg | 0.2 | 9.7 | <0.2 | 10 | 96 |
| | | | o-xylene | mg/kg | 0.1 | 5.2 | <0.1 | 5 | 104 |
| | | Polycyclic | Naphthalene (VOC)* | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 8.8 | 8.1 | 10 | 88 |
| | | | d8-toluene (Surrogate) | mg/kg | - | 8.2 | 7.9 | 10 | 82 |
| | | | Bromofluorobenzene (Surrogate) | mg/kg | - | 8.5 | 8.5 | 10 | 85 |
| | | Totals | Total BTEX* | mg/kg | 0.6 | 30 | <0.6 | - | - |
| | | | Total Xylenes* | mg/kg | 0.3 | 15 | <0.3 | - | - |
| SE239041.077 | LB264035.004 | Monocyclic | Benzene | mg/kg | 0.1 | 5.2 | <0.1 | 5 | 103 |
| | | Aromatic | Toluene | mg/kg | 0.1 | 5.1 | <0.1 | 5 | 102 |
| | | Hydrocarbons | Ethylbenzene | mg/kg | 0.1 | 5.5 | <0.1 | 5 | 109 |
| | | | m/p-xylene | mg/kg | 0.2 | 11 | <0.2 | 10 | 107 |
| | | | o-xylene | mg/kg | 0.1 | 5.9 | <0.1 | 5 | 117 |
| | | Polycyclic | Naphthalene (VOC)* | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 10.9 | 9.8 | 10 | 109 |
| | | | d8-toluene (Surrogate) | mg/kg | - | 10.3 | 9.7 | 10 | 103 |
| | | | Bromofluorobenzene (Surrogate) | mg/kg | - | 10.3 | 10.1 | 10 | 103 |
| | | Totals | Total BTEX* | mg/kg | 0.6 | 32 | <0.6 | - | - |
| | | | Total Xylenes* | mg/kg | 0.3 | 17 | <0.3 | - | - |

## Volatile Petroleum Hydrocarbons in Soil

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

| QC Sample | Sample Number | | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|---|
| SE239041.001 | LB264031.004 | | TRH C6-C10 raw | µg/L | 0.05 | 800 | 7.4 | - | - |
| | | | TRH C6-C9 raw | µg/L | 0.05 | 540 | 6.1 | - | - |
| | | | TRH C6-C10 | mg/kg | 25 | 84 | <25 | 92.5 | 90 |
| | | | TRH C6-C9 | mg/kg | 20 | 57 | <20 | 80 | 70 |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 9.9 | 10.0 | 10 | 99 |
| | | | d8-toluene (Surrogate) | mg/kg | - | 9.1 | 7.5 | 10 | 91 |
| | | | Bromofluorobenzene (Surrogate) | mg/kg | - | 9.8 | 8.3 | - | 98 |
| | | VPH F | Benzene (F0) | mg/kg | 0.1 | 5.5 | <0.1 | - | - |
| | | Bands | TRH C6-C10 minus BTEX (F1) | mg/kg | 25 | 48 | <25 | 62.5 | 75 |
| SE239041.020 | LB264032.004 | | TRH C6-C10 raw | µg/L | 0.05 | 760 | 3.7 | - | - |
| | | | TRH C6-C9 raw | µg/L | 0.05 | 680 | 2.7 | - | - |
| | | | TRH C6-C10 | mg/kg | 25 | 97 | <25 | 92.5 | 105 |
| | | | TRH C6-C9 | mg/kg | 20 | 87 | <20 | 80 | 109 |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 8.6 | 8.6 | 10 | 86 |
| | | | d8-toluene (Surrogate) | mg/kg | - | 8.7 | 8.9 | 10 | 87 |
| | | | Bromofluorobenzene (Surrogate) | mg/kg | - | 8.9 | 7.9 | - | 89 |
| | | VPH F | Benzene (F0) | mg/kg | 0.1 | 5.8 | <0.1 | - | - |
| | | Bands | TRH C6-C10 minus BTEX (F1) | mg/kg | 25 | 61 | <25 | 62.5 | 98 |
| SE239041.039 | LB264033.004 | | TRH C6-C10 raw | µg/L | 0.05 | 970 | 9.1 | - | - |
| | | | TRH C6-C9 raw | µg/L | 0.05 | 850 | 6.3 | - | - |
| | | | TRH C6-C10 | mg/kg | 25 | 93 | <25 | 92.5 | 100 |
| | | | TRH C6-C9 | mg/kg | 20 | 81 | <20 | 80 | 101 |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 11.4 | 9.6 | 10 | 114 |
| | | | d8-toluene (Surrogate) | mg/kg | - | 12.4 | 9.5 | 10 | 124 |
| | | | Bromofluorobenzene (Surrogate) | mg/kg | - | 9.8 | 9.7 | - | 98 |
| | | VPH F | Benzene (F0) | mg/kg | 0.1 | 5.2 | <0.1 | - | - |
| | | Bands | TRH C6-C10 minus BTEX (F1) | mg/kg | 25 | 62 | <25 | 62.5 | 98 |
| SE239041.058 | LB264034.004 | | TRH C6-C10 raw | µg/L | 0.05 | 730 | 3.2 | - | - |

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

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

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

| QC Sample | Sample Number | | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|---|
| SE239041.058 | LB264034.004 | | TRH C6-C9 raw | µg/L | 0.05 | 670 | <0.050 | - | - |
| | | | TRH C6-C10 | mg/kg | 25 | 72 | <25 | 92.5 | 77 |
| | | | TRH C6-C9 | mg/kg | 20 | 66 | <20 | 80 | 82 |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 8.8 | 8.1 | 10 | 88 |
| | | | d8-toluene (Surrogate) | mg/kg | - | 8.2 | 7.9 | 10 | 82 |
| | | | Bromofluorobenzene (Surrogate) | mg/kg | - | 8.5 | 8.5 | - | 85 |
| | | VPH F | Benzene (F0) | mg/kg | 0.1 | 5.1 | <0.1 | - | - |
| | | Bands | TRH C6-C10 minus BTEX (F1) | mg/kg | 25 | 42 | <25 | 62.5 | 66 |
| SE239041.077 | LB264035.004 | | TRH C6-C10 raw | µg/L | 0.05 | 810 | 2.8 | - | - |
| | | | TRH C6-C9 raw | µg/L | 0.05 | 730 | <0.050 | - | - |
| | | | TRH C6-C10 | mg/kg | 25 | 98 | <25 | 92.5 | 106 |
| | | | TRH C6-C9 | mg/kg | 20 | 88 | <20 | 80 | 110 |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 10.9 | 9.8 | 10 | 109 |
| | | | d8-toluene (Surrogate) | mg/kg | - | 10.3 | 9.7 | 10 | 103 |
| | | | Bromofluorobenzene (Surrogate) | mg/kg | - | 10.3 | 10.1 | - | 103 |
| | | VPH F | Benzene (F0) | mg/kg | 0.1 | 5.2 | <0.1 | - | - |
| | | Bands | TRH C6-C10 minus BTEX (F1) | mg/kg | 25 | 66 | <25 | 62.5 | 105 |

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

| QC Sample | Sample Number | | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|---|
| SE239044.001 | LB264092.024 | | TRH C6-C10 | µg/L | 50 | 910 | <50 | 946.63 | 96 |
| | | | TRH C6-C9 | µg/L | 40 | 800 | <50 | 818.71 | 97 |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | µg/L | - | 9.4 | 0.0 | - | 94 |
| | | | d8-toluene (Surrogate) | µg/L | - | 9.9 | 0.0 | - | 99 |
| | | | Bromofluorobenzene (Surrogate) | µg/L | - | 11.1 | 0.0 | - | 111 |
| | | VPH F | Benzene (F0) | µg/L | 0.5 | | <0.5 | - | - |
| | | Bands | TRH C6-C10 minus BTEX (F1) | µg/L | 50 | 590 | <50 | 639.67 | 92 |

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The original result is the analyte concentration of the matrix spike. The Duplicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the

No matrix spike duplicates were required for this job.

Samples analysed as received.

Solid samples expressed on a dry weight basis.

QC criteria are subject to internal review according to the SGS QA/QC plan and may be provided on request or alternatively can be found here: https://www.sgs.com.au/~/media/Local/Australia/Documents/Technical Documents/MP-AU-ENV-QU-022 QA QC Plan.pdf

| | |
|---|---|
| * | NATA accreditation does not cover the performance of this service. |
| ** | Indicative data, theoretical holding time exceeded. |
| *** | Indicates that both * and ** apply. |
| - | Sample not analysed for this analyte. |
| IS | Insufficient sample for analysis. |
| LNR | Sample listed, but not received. |
| LOR | Limit of reporting. |
| QFH | QC result is above the upper tolerance. |
| QFL | QC result is below the lower tolerance. |
| ① | At least 2 of 3 surrogates are within acceptance criteria. |
| ② | RPD failed acceptance criteria due to sample heterogeneity. |
| ③ | Results less than 5 times LOR preclude acceptance criteria for RPD. |
| ④ | Recovery failed acceptance criteria due to matrix interference. |
| ⑤ | Recovery failed acceptance criteria due to the presence of significant concentration of analyte (i.e. the concentration of analyte exceeds the spike level). |
| ⑥ | LOR was raised due to sample matrix interference. |
| ⑦ | LOR was raised due to dilution of significantly high concentration of analyte in sample. |
| ⑧ | Reanalysis of sample in duplicate confirmed sample heterogeneity and inconsistency of results. |
| ⑨ | Recovery failed acceptance criteria due to sample heterogeneity. |
| ⑩ | LOR was raised due to high conductivity of the sample (required dilution). |
| † | Refer to relevant report comments for further information. |

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14/11@12.23

SGS

LIMS No: _____

# Request for Laboratory Services and Chain of Custody Form

SGS Australia, Unit 16, 33 Maddox Street, Alexandria, NSW 2015 Ph: +61 2 8594 0400 Fax: +61 2 8594 0499 Email: au.samplereceipt.sydney@sgs.com

**Laboratory Section**

Received Date: 11/11/22 Received By: [signature] Cooling Method: ☐ Ice ☑ Icepack ☐ None Samples intact: ☑ Yes ☐ No

Logged-in Date: _____ Time of Receipt: 4:20 Cooler Sealed: ☑ Yes ☐ No ☐ N/A Temperature: ☐ Ambient ☑ Chilled

COD must pay via cheque or credit card before analysis is commenced. AMEX & DINERS cards incur a 5% surcharge

**INVOICE TO:**

| | |
|---|---|
| Name: | Kannan Kaliappan |
| Company: | K2 Consulting group |
| Address: | Suite 222, Building B, 20 Lexington Drive, Bella Vista, NSW 2153 |
| | |
| Email: | kannan@consultinggroup.com.au ; info@k2consultinggroup.com.au |
| Phone: | 1800523000 Fax: |

Quote #: _____

Attached Parameter List: ☐ Yes ☐ No

Replacement Sample Containers Required: ☐ Yes ☐ No

Results Required By: 5 days TAT Urgent TA requires lab approval

Notes:

**Client information** | **PO No.:** | **Project No.:** ST-01-1533 (515 CROOKWELL ROAD, KINGSDALE NSW 2580

**Company Name:** K2 Consulting Group

SGS EHS Sydney COC

**SE239041**

| | | | |
|---|---|---|---|
| **Contact Name:** | Kannan Kaliappan | | |
| **Address:** | Suite 222, Building B, 20 Lexington Drive, Bella Vista, NSW 2153 | | |
| **Phone Number:** | 449669559 | **After Hours Phone Number:** | |
| **Fax Number:** | **Email:** | kannan@consultinggroup.com.au ; info@k2consultinggroup.com.au; sirish@k2consultinggroup.com.au | |

**Note:** Results will be sent via email to an unlimited number of addresses for no additional fee. In the absence of email, fax is available upon request.

**Indicate results format (please check one):** Email ☐ Fax ☐

**SAMPLE INFORMATION**

| Lab Sample ID | Sample Identifier | Date Sampled | Time | Matrix: Soil Water Other | # of Bottles | # of Ziplock bags | Analysis Requested | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | CL17 (TRH/BTEXN/PAH/OC/OP/PCB/8HM) | Asbestos in Soil | | | | | | | | | | |
| 1 | ST-01-1533-BH11 (0.2m) | 7.11.2022 | | Soil | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH11 (0.5m) | 7.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH11(1.2m) | 7.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH12(0.2m) | 7.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | |
| 2 | ST-01-1533-BH12(0.7m) | 7.11.2022 | | Soil | 1 | | | X | | | | | | | | | | |
| 3 | ST-01-1533-BH13(0.2m) | 7.11.2022 | | Soil | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH13(0.6m) | 7.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | |
| 4 | ST-01-1533-BH14(0.2m) | 7.11.2022 | | Soil | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH14(0.8m) | 7.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH14(1.6m) | 7.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH15(0.2m) | 7.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | |
| 5 | ST-01-1533-BH15(0.5m) | 7.11.2022 | | Soil | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH15(1.9m) | 7.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | |
| 6 | ST-01-1533-BH16(0.2m) | 7.11.2022 | | Soil | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH16(1.0m) | 7.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH17(0.2m) | 7.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | |
| 7 | ST-01-1533-BH17(0.7m) | 7.11.2022 | | Soil | 1 | | | X | | | | | | | | | | |
| 8 | ST-01-1533-BH18(0.2m) | 7.11.2022 | | Soil | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH18(0.4m) | 7.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH18(0.9m) | 7.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | |
| 9 | ST-01-1533-BH19(0.2m) | 7.11.2022 | | Soil | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH19(0.6m) | 7.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH19(2.0m) | 7.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH19(3.0m) | 7.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | |
| 10 | ST-01-1533-BH20(0.2m) | 10.11.2022 | | Soil | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH20(0.5m) | 10.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH21(0.2m) | 7.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | |
| 11 | ST-01-1533-BH21(0.5m) | 7.11.2022 | | Soil | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH21(1.2m) | 7.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | |
| 12 | ST-01-1533-BH22(0.2m) | 7.11.2022 | | Soil | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH22(0.6m) | 7.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH22(1.0m) | 7.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | |
| 13 | ST-01-1533-BH23(0.2m) | 10.11.2022 | | Soil | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH23(0.5m) | 10.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH23(0.8m) | 10.11.2022 | | Soi | 1 | | | HOLD | | | | | | | | | | |
| 14 | ST-01-1533-BH24(0.2m) | 7.11.2022 | | Soil | 1 | | | X | | | | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ST-01-1533-BH24(0.5m) | 7.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| | ST-01-1533-BH24(1.3m) | 7.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| 15 | ST-01-1533-BH25(0.2m) | 7.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH25(0.5m) | 7.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| 16 | ST-01-1533-BH26(surface sample) | 7.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH26(0.2m) | 10.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| | ST-01-1533-BH26(0.5m) | 10.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| 17 | ST-01-1533-BH27(0.2m) | 10.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH27(0.5m) | 10.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| | ST-01-1533-BH28(0.2m) | 7.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| 18 | ST-01-1533-BH28(0.4m) | 7.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH28(0.9m) | 7.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| | ST-01-1533-BH29(0.2m) | 10.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| 19 | ST-01-1533-BH29(0.5m) | 10.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| 20 | ST-01-1533-BH30(0.2m) | 09.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH30(0.5m) | 09.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| 21 | ST-01-1533-BH31(0.2m) | 09.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH31(0.5m) | 09.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| 22 | ST-01-1533-BH32(0.2m) | 08.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH32(0.5m) | 08.11.2022 | | | 1 | | | HOLD | | | | | | | | | | | |
| 23 | ST-01-1533-BH33(0.2m) | 08.11.2022 | | | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH33(0.5m) | 08.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| 24 | ST-01-1533-BH34(0.2m) | 08.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH34(0.8m) | 08.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| 25 | ST-01-1533-BH35(0.2m) | 7.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH35(0.8m) | 7.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| 26 | ST-01-1533-BH36(0.6m) | 7.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH37(0.2m) | 09.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| 27 | ST-01-1533-BH37(0.6m) | 09.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH37(0.8m) | 09.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| 28 | ST-01-1533-BH38(0.2m) | 09.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH38(0.8m) | 09.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| 29 | ST-01-1533-BH39(0.2m) | 09.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH39(0.75m) | 09.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| 30 | ST-01-1533-BH40(0.2m) | 7.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH40(0.5m) | 7.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| | ST-01-1533-BH40(1.4m) | 7.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| | ST-01-1533-BH41(0.2m) | 7.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| 31 | ST-01-1533-BH41(0.5m) | 7.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH41(1.4m) | 7.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| 32 | ST-01-1533-BH42(0.2m) | 7.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH42(0.5m) | 7.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| | ST-01-1533-BH42(1.2m) | 7.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| 33 | ST-01-1533-BH43(0.2m) | 09.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH43(0.5m) | 09.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| | ST-01-1533-BH43(1.1m) | 09.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| 34 | ST-01-1533-BH44(0.2m) | 09.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ST-01-1533-BH44(0.6m) | 09.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| 35 | ST-01-1533-BH45(0.2m) | 09.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH45(0.7m) | 09.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| | ST-01-1533-BH45(1.1m) | 09.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| 36 | ST-01-1533-BH46(0.2m) | 09.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH46(0.5m) | 09.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| | ST-01-1533-BH47(0.2m) | 08.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| 37 | ST-01-1533-BH47(0.7m) | 08.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| 38 | ST-01-1533-BH48(0.1m) | 08.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH48(0.6m) | 08.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| | ST-01-1533-BH49(0.2m) | 08.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| 39 | ST-01-1533-BH49(0.5m) | 08.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| 40 | ST-01-1533-BH50(0.2m) | 08.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH50(0.6m) | 08.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| 41 | ST-01-1533-BH51(0.2m) | 08.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH51(0.6m) | 08.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| | ST-01-1533-BH52(0.2m) | 08.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| 42 | ST-01-1533-BH52(0.7m) | 08.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| 43 | ST-01-1533-BH53(0.2m) | 08.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH53(0.8m) | 08.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| 44 | ST-01-1533-BH54(0.2m) | 09.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH54(0.5m) | 09.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| | ST-01-1533-BH54(0.9m) | 09.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| | ST-01-1533-BH55(0.2m) | 09.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| 45 | ST-01-1533-BH55(0.7m) | 09.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| 46 | ST-01-1533-BH56(0.2m) | 09.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH56(0.9m) | 09.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| 47 | ST-01-1533-BH57(0.2m) | 09.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH57(0.5m) | 09.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| 48 | ST-01-1533-BH58(0.2m) | 09.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH58(0.5m) | 09.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| | ST-01-1533-BH58(1.1m) | 09.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| 49 | ST-01-1533-BH59(0.2m) | 09.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH59(0.6m) | 09.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| 50 | ST-01-1533-BH60(0.2m) | 09.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH60(0.6m) | 09.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| | ST-01-1533-BH61(0.2m) | 09.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| 51 | ST-01-1533-BH61(0.5m) | 09.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| 52 | ST-01-1533-BH62(0.2m) | 09.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH62(0.7m) | 09.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| 53 | ST-01-1533-BH63(0.2m) | 7.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH63(0.6m) | 08.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| 54 | ST-01-1533-BH64(0.2m) | 08.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH64(0.5m) | 08.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| | ST-01-1533-BH64(0.9m) | 08.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| | ST-01-1533-BH65(0.2m) | 08.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| 55 | ST-01-1533-BH65(0.9m) | 08.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 56 | ST-01-1533-BH66(0.2m) | 08.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH66(0.6m) | 08.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| 57 | ST-01-1533-BH67(0.2m) | 08.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH67(0.6m) | 08.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| | ST-01-1533-BH67(1.0m) | 08.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| | ST-01-1533-BH68(0.2m) | 08.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| 58 | ST-01-1533-BH68(0.6m) | 08.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| 59 | ST-01-1533-BH69(0.2m) | 08.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH69(0.4m) | 08.11.2022 | | | 1 | | | HOLD | | | | | | | | | | | |
| 60 | ST-01-1533-BH70(0.2m) | 08.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH70(0.9m) | 08.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| 61 | ST-01-1533-BH71(0.2m) | 08.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH71(0.9m) | 08.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| | ST-01-1533-BH72(0.2m) | 08.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| 62 | ST-01-1533-BH72(0.8m) | 08.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| 63 | ST-01-1533-BH73(0.2m) | 08.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH73(0.9m) | 08.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| 64 | ST-01-1533-BH74(0.2m) | 08.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH74(0.5m) | 08.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| | ST-01-1533-BH74(1.1m) | 08.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| | ST-01-1533-BH75(0.2m) | 08.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| | ST-01-1533-BH75(0.7m) | 08.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| 65 | ST-01-1533-BH75(1.0m) | 08.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| 66 | ST-01-1533-BH76(0.2m) | 08.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH76(0.6m) | 08.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| | ST-01-1533-BH76(1.1m) | 08.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| 67 | ST-01-1533-BH77(0.2m) | 08.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH77(0.7m) | 08.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| 68 | ST-01-1533-BH78(0.2m) | 09.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH78(0.8m) | 09.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| 69 | ST-01-1533-BH79(0.2m) | 09.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH79(0.4m) | 09.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| | ST-01-1533-BH79(1.1m) | 09.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| | ST-01-1533-BH80(0.2m) | 09.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| 70 | ST-01-1533-BH80(0.6m) | 09.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH81(0.2m) | 09.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| 71 | ST-01-1533-BH81(0.8m) | 09.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| 72 | ST-01-1533-BH82(0.2m) | 09.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH82(0.7m) | 09.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| | ST-01-1533-BH82(1.2m) | 09.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| 73 | ST-01-1533-BH83(0.2m) | 09.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH83(0.5m) | 09.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| 74 | ST-01-1533-BH84(0.1m) | 09.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH84(0.7m) | 09.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| 75 | ST-01-1533-BH85(0.2m) | 09.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH85(0.5m) | 09.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| | ST-01-1533-BH85(1.1m) | 09.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ST-01-1533-BH86(0.1m) | 09.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| 76 | ST-01-1533-BH86(0.7m) | 09.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH86(1.1m) | 09.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| | ST-01-1533-BH87(0.2m) | 09.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| 77 | ST-01-1533-BH87(0.8m) | 09.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| 78 | ST-01-1533-BH88(0.2m) | 09.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH88(0.8m) | 09.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| 79 | ST-01-1533-BH89(0.2m) | 09.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH89(0.5m) | 09.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| | ST-01-1533-BH89(1.1m) | 09.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| 80 | ST-01-1533-BH90(0.2m) | 09.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH90(0.5m) | 09.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| | ST-01-1533-BH90(0.9m) | 09.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| | ST-01-1533-BH91(0.2m) | 09.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| | ST-01-1533-BH91(0.8m) | 09.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| 81 | ST-01-1533-BH91(1.0m) | 09.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| 82 | ST-01-1533-BH92(0.2m) | 09.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH92(0.8m) | 09.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| | ST-01-1533-BH92(1.1m) | 09.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| 83 | ST-01-1533-BH93(0.2m) | 08.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH93(0.6m) | 08.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| | ST-01-1533-BH93(1.2m) | 08.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| 84 | ST-01-1533-BH94(0.2m) | 08.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH94(0.5m) | 08.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| 85 | ST-01-1533-BH95(0.2m) | 08.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH95(0.6m) | 08.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| | ST-01-1533-BH95(1.1m) | 08.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| | ST-01-1533-BH96(0.2m) | 08.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| 86 | ST-01-1533-BH96(0.7m) | 08.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH96(1.2m) | 08.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| 87 | ST-01-1533-BH97(0.2m) | 08.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH97(0.8m) | 08.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| 88 | ST-01-1533-BH98(0.2m) | 08.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH98(0.5m) | 08.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| | ST-01-1533-BH98(1.1m) | 08.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| 89 | ST-01-1533-BR1 | 07.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| 90 | ST-01-1533-BR2 | 08.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| 91 | ST-01-1533-BR3 | 09.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| 92 | ST-01-1533-BR4 | 09.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| 93 | ST-01-1533-WD1 | 10.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| 94 | ST-01-1533-WD2 | 10.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH11-ASB (0.2m) | 07.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH11-ASB (0.5m) | 07.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH11-ASB(1.2m) | 07.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH12-ASB(0.2m) | 07.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH12-ASB(0.7m) | 07.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH13-ASB(0.2m) | 07.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ST-01-1533-BH53ASB(0.2m) | 08.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH54-ASB(0.2m) | 09.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH55-ASB(0.2m) | 09.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH56-ASB(0.2m) | 09.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH57-ASB(0.2m) | 09.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH58-ASB(0.2m) | 09.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH59-ASB(0.2m) | 09.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH60-ASB(0.2m) | 09.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH61-ASB(0.2m) | 09.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH62-ASB(0.2m) | 09.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH63-ASB(0.2m) | 7.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH64-ASB(0.2m) | 08.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH65-ASB(0.2m) | 08.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH66-ASB(0.2m) | 08.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH67-ASB(0.2m) | 08.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH68-ASB(0.2m) | 08.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH69-ASB(0.2m) | 08.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH70-ASB(0.2m) | 08.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH71-ASB(0.2m) | 08.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH72-ASB(0.2m) | 08.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH74-ASB(0.2m) | 08.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH75-ASB(0.2m) | 08.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH76-ASB(0.2m) | 08.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH77-ASB(0.2m) | 08.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH78-ASB(0.2m) | 09.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH79-ASB(0.2m) | 09.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH80-ASB(0.2m) | 09.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH81-ASB(0.2m) | 09.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH82-ASB(0.2m) | 09.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH83-ASB(0.2m) | 09.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH84-ASB(0.2m) | 09.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH85-ASB(0.2m) | 09.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH86-ASB(0.2m) | 09.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH87-ASB(0.2m) | 09.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH88-ASB(0.2m) | 09.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH89-ASB(0.2m) | 09.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH90-ASB(0.2m) | 09.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH91-ASB(0.2m) | 09.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH93-ASB(0.2m) | 08.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH95-ASB(0.2m) | 08.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH96-ASB(0.2m) | 08.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH97-ASB(0.2m) | 08.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH98-ASB(0.2m) | 08.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| 95 | ST-01-1533-WD1 | 10.11.2022 | | Water | 4 | | | X | | | | | | | | | | | |
| 96 | ST-01-1533-WD2 | 10.11.2022 | | Water | 4 | | | X | | | | | | | | | | | |
| 97 | ST-01-1533-RIN | 10.11.2022 | | Rinsate | 4 | | | X | | | | | | | | | | | |
| 98 | TRIP BLANK | | | | 1 | | | X | | | | | | | | | | | |

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| 99 | TRIP SPIKE | | | | 1 | | | X | | | | | | | | | | | |
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| | | | | | |
|---|---|---|---|---|---|
| Sampled By: | Sirish Baniya | | | Date: | 07/11/2022 - 10/11/2022 |
| Relinquished By: | Sirish Baniya | | | Date: | 11/11/2022 Time: 3pm |

# ANALYTICAL REPORT

Accreditation No. 2562

## CLIENT DETAILS

| | |
|---|---|
| Contact | Kannan Kaliappan |
| Client | K2 CONSULTING GROUP |
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| Telephone | 61 8 00 523 000 |
| Facsimile | (Not specified) |
| Email | kannan@k2consultinggroup.com.au |
| Project | **ST-01-1533 (515 Crookwell Road,Kingsdale** |
| Order Number | **ST-01-1533** |
| Samples | 44 |

## LABORATORY DETAILS

| | |
|---|---|
| Manager | Huong Crawford |
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| Telephone | +61 2 8594 0400 |
| Facsimile | +61 2 8594 0499 |
| Email | au.environmental.sydney@sgs.com |
| SGS Reference | **SE239042 R0** |
| Date Received | 11 Nov 2022 |
| Date Reported | 21 Nov 2022 |

## 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.
Asbestos analysed by Approved Identifiers Ravee Sivasubramaniam and Yusuf Kuthpudin .

## SIGNATORIES

S. Ravensdale

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* |
|---|---|---|---|---|---|---|
| SE239042.001 | ST-01-1533-BH1 1-ASB(0.2m) | Soil | 50g Clay,Rocks | 07 Nov 2022 | No Asbestos Found at RL of 0.1g/kg | <0.01 |
| SE239042.002 | ST-01-1533-BH1 2-ASB(0.2m) | Soil | 42g Clay,Sand,Soil, Rocks | 07 Nov 2022 | No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected | <0.01 |
| SE239042.003 | ST-01-1533-BH1 4-ASB(0.2m) | Soil | 69g Clay,Sand,Rock s | 07 Nov 2022 | No Asbestos Found at RL of 0.1g/kg | <0.01 |
| SE239042.004 | ST-01-1533-BH1 5-ASB(0.2m) | Soil | 73g Clay,Sand,Rock s | 07 Nov 2022 | No Asbestos Found at RL of 0.1g/kg | <0.01 |
| SE239042.005 | ST-01-1533-BH1 6-ASB(0.2m) | Soil | 57g Sand,Soil,Rocks | 07 Nov 2022 | No Asbestos Found at RL of 0.1g/kg | <0.01 |
| SE239042.006 | ST-01-1533-BH1 9-ASB(0.2m) | Soil | 64g Clay,Sand,Soil | 07 Nov 2022 | No Asbestos Found at RL of 0.1g/kg | <0.01 |
| SE239042.007 | ST-01-1533-BH2 0-ASB(0.2m) | Soil | 61g Clay,Sand,Rock s | 10 Nov 2022 | No Asbestos Found at RL of 0.1g/kg | <0.01 |
| SE239042.008 | ST-01-1533-BH2 3-ASB(0.2m) | Soil | 70g Clay,Sand,Soil, Rocks | 10 Nov 2022 | No Asbestos Found at RL of 0.1g/kg | <0.01 |
| SE239042.009 | ST-01-1533-BH4 1-ASB(0.2m) | Soil | 56g Clay,Sand,Rock s | 07 Nov 2022 | No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected | <0.01 |
| SE239042.010 | ST-01-1533-BH2 6-ASB(0.2m) | Soil | 72g Clay,Sand,Soil, Rocks | 10 Nov 2022 | No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected | <0.01 |
| SE239042.011 | ST-01-1533-BH2 7-ASB(0.2m) | Soil | 58g Clay,Sand,Soil, Rocks | 10 Nov 2022 | No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected | <0.01 |
| SE239042.012 | ST-01-1533-BH2 9-ASB(0.2m) | Soil | 64g Clay,Sand,Rock s | 10 Nov 2022 | No Asbestos Found at RL of 0.1g/kg | <0.01 |
| SE239042.013 | ST-01-1533-BH3 1-ASB(0.2m) | Soil | 49g Clay,Sand,Rock s | 09 Nov 2022 | No Asbestos Found at RL of 0.1g/kg | <0.01 |
| SE239042.014 | ST-01-1533-BH3 3-ASB(0.2m) | Soil | 70g Clay,Rocks | 08 Nov 2022 | No Asbestos Found at RL of 0.1g/kg | <0.01 |
| SE239042.015 | ST-01-1533-BH3 7-ASB(0.2m) | Soil | 71g Clay,Sand,Rock s | 09 Nov 2022 | No Asbestos Found at RL of 0.1g/kg | <0.01 |
| SE239042.016 | ST-01-1533-BH4 0-ASB(0.2m) | Soil | 60g Clay,Sand,Rock s | 07 Nov 2022 | No Asbestos Found at RL of 0.1g/kg | <0.01 |
| SE239042.017 | ST-01-1533-BH4 2-ASB(0.2m) | Soil | 24g Clay,Sand,Soil, Rocks | 07 Nov 2022 | No Asbestos Found at RL of 0.1g/kg | <0.01 |
| SE239042.018 | ST-01-1533-BH4 3-ASB(0.2m) | Soil | 61g Clay,Sand,Soil | 09 Nov 2022 | No Asbestos Found at RL of 0.1g/kg | <0.01 |
| SE239042.019 | ST-01-1533-BH4 5-ASB(0.2m) | Soil | 59g Soil,Rocks | 09 Nov 2022 | No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected | <0.01 |
| SE239042.020 | ST-01-1533-BH4 7-ASB(0.2m) | Soil | 60g Clay,Sand | 08 Nov 2022 | No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected | <0.01 |
| SE239042.021 | ST-01-1533-BH4 9-ASB(0.2m) | Soil | 24g Soil,Plant Matter | 08 Nov 2022 | No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected | <0.01 |

RESULTS

Fibre Identification in soil — Method AN602

| Laboratory Reference | Client Reference | Matrix | Sample Description | Date Sampled | Fibre Identification | Est.%w/w* |
|---|---|---|---|---|---|---|
| SE239042.022 | ST-01-1533-BH5 1-ASB(0.2m) | Soil | 53g Soil,Rocks,Plant Matter | 08 Nov 2022 | No Asbestos Found at RL of 0.1g/kg<br>Organic Fibres Detected | <0.01 |
| SE239042.023 | ST-01-1533-BH5 3-ASB(0.2m) | Soil | 96g Clay,Soil | 08 Nov 2022 | No Asbestos Found at RL of 0.1g/kg<br>Organic Fibres Detected | <0.01 |
| SE239042.024 | ST-01-1533-BH5 5-ASB(0.2m) | Soil | 56g Clay,Soil | 09 Nov 2022 | No Asbestos Found at RL of 0.1g/kg<br>Organic Fibres Detected | <0.01 |
| SE239042.025 | ST-01-1533-BH5 7-ASB(0.2m) | Soil | 49g Clay,Soil | 09 Nov 2022 | No Asbestos Found at RL of 0.1g/kg<br>Organic Fibres Detected | <0.01 |
| SE239042.026 | ST-01-1533-BH5 9-ASB(0.2m) | Soil | 38g Clay,Soil | 09 Nov 2022 | No Asbestos Found at RL of 0.1g/kg<br>Organic Fibres Detected | <0.01 |
| SE239042.027 | ST-01-1533-BH6 1-ASB(0.2m) | Soil | 67g Clay,Sand,Soil | 09 Nov 2022 | No Asbestos Found at RL of 0.1g/kg<br>Organic Fibres Detected | <0.01 |
| SE239042.028 | ST-01-1533-BH6 3-ASB(0.2m) | Soil | 66g Clay,Sand | 07 Nov 2022 | No Asbestos Found at RL of 0.1g/kg | <0.01 |
| SE239042.029 | ST-01-1533-BH6 5-ASB(0.2m) | Soil | 49g Clay,Sand | 08 Nov 2022 | No Asbestos Found at RL of 0.1g/kg | <0.01 |
| SE239042.030 | ST-01-1533-BH6 7-ASB(0.2m) | Soil | 56g Clay,Sand,Rock s | 08 Nov 2022 | No Asbestos Found at RL of 0.1g/kg | <0.01 |
| SE239042.031 | ST-01-1533-BH6 9-ASB(0.2m) | Soil | 58g Clay | 08 Nov 2022 | No Asbestos Found at RL of 0.1g/kg | <0.01 |
| SE239042.032 | ST-01-1533-BH7 1-ASB(0.2m) | Soil | 57g Clay,Soil | 08 Nov 2022 | No Asbestos Found at RL of 0.1g/kg | <0.01 |
| SE239042.033 | ST-01-1533-BH7 4-ASB(0.2m) | Soil | 54g Clay,Sand | 08 Nov 2022 | No Asbestos Found at RL of 0.1g/kg | <0.01 |
| SE239042.034 | ST-01-1533-BH7 6-ASB(0.2m) | Soil | 60g Clay,Sand | 08 Nov 2022 | No Asbestos Found at RL of 0.1g/kg | <0.01 |
| SE239042.035 | ST-01-1533-BH7 8-ASB(0.2m) | Soil | 81g Clay,Sand | 09 Nov 2022 | No Asbestos Found at RL of 0.1g/kg | <0.01 |
| SE239042.036 | ST-01-1533-BH8 0-ASB(0.2m) | Soil | 103g Clay,Sand | 09 Nov 2022 | No Asbestos Found at RL of 0.1g/kg | <0.01 |
| SE239042.037 | ST-01-1533-BH8 2-ASB(0.2m) | Soil | 58g Clay,Sand,Rock s,Plant Matter | 09 Nov 2022 | No Asbestos Found at RL of 0.1g/kg<br>Organic Fibres Detected | <0.01 |
| SE239042.038 | ST-01-1533-BH8 4-ASB(0.2m) | Soil | 62g Clay,Sand,Rock s,Plant Matter | 09 Nov 2022 | No Asbestos Found at RL of 0.1g/kg<br>Organic Fibres Detected | <0.01 |
| SE239042.039 | ST-01-1533-BH8 6-ASB(0.2m) | Soil | 59g Clay,Sand,Rock s | 09 Nov 2022 | No Asbestos Found at RL of 0.1g/kg | <0.01 |
| SE239042.040 | ST-01-1533-BH8 8-ASB(0.2m) | Soil | 57g Clay,Rocks | 09 Nov 2022 | No Asbestos Found at RL of 0.1g/kg | <0.01 |
| SE239042.041 | ST-01-1533-BH9 0-ASB(0.2m) | Soil | 75g Clay,Sand,Rock s,Plant Matter | 09 Nov 2022 | No Asbestos Found at RL of 0.1g/kg<br>Organic Fibres Detected | <0.01 |
| SE239042.042 | ST-01-1533-BH9 3-ASB(0.2m) | Soil | 78g Clay,Sand,Rock s | 08 Nov 2022 | No Asbestos Found at RL of 0.1g/kg | <0.01 |
| SE239042.043 | ST-01-1533-BH9 6-ASB(0.2m) | Soil | 63g Clay,Sand,Rock s | 08 Nov 2022 | No Asbestos Found at RL of 0.1g/kg | <0.01 |
| SE239042.044 | ST-01-1533-BH9 8-ASB(0.2m) | Soil | 71g Clay,Sand,Rock s | 08 Nov 2022 | No Asbestos Found at RL of 0.1g/kg | <0.01 |

# METHOD SUMMARY

| 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 unequivocably 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-<br><br>(a) no trace asbestos fibres have been detected (i.e. no ‘respirable ’ fibres):<br>(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<br>(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.

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E-MAILED
17/4/12-23

SGS

LIMS No: _____

# Request for Laboratory Services and Chain of Custody Form

SGS Australia, Unit 16, 33 Maddox Street, Alexandria, NSW 2015 Ph: +61 2 8594 0400 Fax: +61 2 8594 0499 Email: au.samplereceipt.sydney@sgs.com

**Laboratory Section**

Received Date: 11/11/22 Received By: Subaraj Cooling Method: ☐ Ice ☑ Icepack ☐ None Samples intact: ☑ Yes ☐ No

Logged-In Date: _____ Time of Receipt: 4:20 Cooler Sealed: ☑ Yes ☐ No ☐ N/A Temperature: ☐ Ambient ☑ Chilled

COD must pay via cheque or credit card before analysis is commenced. AMEX & DINERS cards incur a 5% surcharge

INVOICE TO:

| | |
|---|---|
| Name: | Kannan Kaliappan |
| Company: | K2 Consulting group |
| Address: | Suite 222, Building B, 20 Lexington Drive, Bella Vista, NSW 2153 |
| Email: | kannan@consultingroup.com.au, info@k2consultingroup.com.au |
| Phone: | 1800523000 Fax: |

Quote #: _____

Attached Parameter List: ☐ Yes ☐ No

Replacement Sample Containers Required: ☐ Yes ☐ No

Results Required By: 5 days TAT Urgent TA requires lab approval

Notes:

**Client Information** | PO No.: | Project No.: ST-01-1533 (515 CROOKWELL ROAD, KINGSDALE NSW 2580

Company Name: K2 Consulting Group

SGS EHS Sydney

**SE239042**

| | | | |
|---|---|---|---|
| **Contact Name:** | Kannan Kaliappan | | |
| **Address:** | Suite 222, Building B, 20 Lexington Drive, Bella Vista, NSW 2153 | | |
| **Phone Number:** | 449669559 | **After Hours Phone Number:** | |
| **Fax Number:** | | **Email:** | kannan@consultinggroup.com.au ; info@k2consultinggroup.com.au; sirish@k2consultinggroup.com.au |

Note: Results will be sent via email to an unlimited number of addresses for no additional fee. In the absence of email, fax is available upon request.

**Indicate results format (please check one):** Email ☐ Fax ☐

**SAMPLE INFORMATION**

| Lab Sample ID | Sample Identifier | Date Sampled | Time | Matrix: Soil Water Other | # of Bottles | # of Ziplock bags | Analysis Requested | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | CL17 (TRH/BTEXN/PAH/OC/OP/PCB/8HM) | Asbestos in Soil | | | | | | | | | | |
| | ST-01-1533-BH11 (0.2m) | 7.11.2022 | | Soil | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH11 (0.5m) | 7.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH11(1.2m) | 7.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH12(0.2m) | 7.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH12(0.7m) | 7.11.2022 | | Soil | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH13(0.2m) | 7.11.2022 | | Soil | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH13(0.6m) | 7.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH14(0.2m) | 7.11.2022 | | Soil | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH14(0.8m) | 7.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH14(1.6m) | 7.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH15(0.2m) | 7.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH15(0.5m) | 7.11.2022 | | Soil | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH15(1.9m) | 7.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH16(0.2m) | 7.11.2022 | | Soil | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH16(1.0m) | 7.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH17(0.2m) | 7.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH17(0.7m) | 7.11.2022 | | Soil | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH18(0.2m) | 7.11.2022 | | Soil | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH18(0.4m) | 7.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH18(0.9m) | 7.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH19(0.2m) | 7.11.2022 | | Soil | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH19(0.6m) | 7.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH19(2.0m) | 7.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH19(3.0m) | 7.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH20(0.2m) | 10.11.2022 | | Soil | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH20(0.5m) | 10.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH21(0.2m) | 7.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH21(0.5m) | 7.11.2022 | | Soil | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH21(1.2m) | 7.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH22(0.2m) | 7.11.2022 | | Soil | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH22(0.6m) | 7.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH22(1.0m) | 7.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH23(0.2m) | 10.11.2022 | | Soil | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH23(0.5m) | 10.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH23(0.8m) | 10.11.2022 | | Soi | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH24(0.2m) | 7.11.2022 | | Soil | 1 | | | X | | | | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ST-01-1533-BH86(0.1m) | 09.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| | ST-01-1533-BH86(0.7m) | 09.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH86(1.1m) | 09.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| | ST-01-1533-BH87(0.2m) | 09.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| | ST-01-1533-BH87(0.8m) | 09.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH88(0.2m) | 09.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH88(0.8m) | 09.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| | ST-01-1533-BH89(0.2m) | 09.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH89(0.5m) | 09.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| | ST-01-1533-BH89(1.1m) | 09.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| | ST-01-1533-BH90(0.2m) | 09.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH90(0.5m) | 09.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| | ST-01-1533-BH90(0.9m) | 09.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| | ST-01-1533-BH91(0.2m) | 09.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| | ST-01-1533-BH91(0.8m) | 09.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| | ST-01-1533-BH91(1.0m) | 09.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH92(0.2m) | 09.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH92(0.8m) | 09.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| | ST-01-1533-BH92(1.1m) | 09.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| | ST-01-1533-BH93(0.2m) | 08.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH93(0.6m) | 08.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| | ST-01-1533-BH93(1.2m) | 08.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| | ST-01-1533-BH94(0.2m) | 08.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH94(0.5m) | 08.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| | ST-01-1533-BH95(0.2m) | 08.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH95(0.6m) | 08.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| | ST-01-1533-BH95(1.1m) | 08.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| | ST-01-1533-BH96(0.2m) | 08.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| | ST-01-1533-BH96(0.7m) | 08.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH96(1.2m) | 08.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| | ST-01-1533-BH97(0.2m) | 08.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH97(0.8m) | 08.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| | ST-01-1533-BH98(0.2m) | 08.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BH98(0.5m) | 08.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| | ST-01-1533-BH98(1.1m) | 08.11.2022 | | Soil | 1 | | | HOLD | | | | | | | | | | | |
| | ST-01-1533-BR1 | 07.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BR2 | 08.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BR3 | 09.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-BR4 | 09.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-WD1 | 10.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| | ST-01-1533-WD2 | 10.11.2022 | | Soil | 1 | | | X | | | | | | | | | | | |
| 1 | ST-01-1533-BH11-ASB (0.2m) | 07.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH11-ASB (0.5m) | 07.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH11-ASB(1.2m) | 07.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| 2 | ST-01-1533-BH12-ASB(0.2m) | 07.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH12-ASB(0.7m) | 07.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH13-ASB(0.2m) | 07.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | ST-01-1533-BH14-ASB(0.2m) | 07.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH14-ASB(0.8m) | 07.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH14-ASB(1.6m) | 07.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| 4 | ST-01-1533-BH15-ASB(0.2m) | 07.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH15-ASB(0.9m) | 07.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| 5 | ST-01-1533-BH16-ASB(0.2m) | 07.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH16-ASB(1.0m) | 07.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH17-ASB(0.7m) | 07.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH17-ASB(0.2m) | 07.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| 6 | ST-01-1533-BH19-ASB(0.2m) | 07.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH19-ASB(0.6m) | 07.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| 7 | ST-01-1533-BH20-ASB(0.2m) | 10.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH22-ASB(0.2m) | 07.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH22-ASB(0.6m) | 07.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| 8 | ST-01-1533-BH23-ASB(0.2m) | 10.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| X | ST-01-1533-BH24-ASB(0.2m) | 07.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH25-ASB(0.2m) | 07.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| 10 | ST-01-1533-BH26-ASB(0.2m) | 10.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| 11 | ST-01-1533-BH27-ASB(0.2m) | 10.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH28-ASB(0.2m) | 07.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| 12 | ST-01-1533-BH29-ASB(0.2m) | 10.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH30-ASB(0.2m) | 09.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| 13 | ST-01-1533-BH31-ASB(0.2m) | 09.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH32-ASB(0.2m) | 08.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| 14 | ST-01-1533-BH33-ASB(0.2m) | 08.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH34-ASB(0.2m) | 08.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| 15 | ST-01-1533-BH37-ASB(0.2m) | 09.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH38-ASB(0.2m) | 09.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH39-ASB(0.2m) | 09.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| 16 | ST-01-1533-BH40-ASB(0.2m) | 07.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH40-ASB(0.5m) | 07.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH40-ASB(1.4m) | 07.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH41-ASB(0.5m) | 07.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| 9 | ST-01-1533-BH41-ASB(0.2m) | 07.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| 17 | ST-01-1533-BH42-ASB(0.2m) | 07.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH42-ASB(0.5m) | 07.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| | ST-01-1533-BH42-ASB(1.2m) | 07.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| 18 | ST-01-1533-BH43-ASB(0.2m) | 09.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH44-ASB(0.2m) | 09.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| 19 | ST-01-1533-BH45-ASB(0.2m) | 09.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH46-ASB(0.2m) | 09.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| 20 | ST-01-1533-BH47-ASB(0.2m) | 08.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH48-ASB(0.2m) | 08.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| 21 | ST-01-1533-BH49-ASB(0.2m) | 08.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH50-ASB(0.2m) | 08.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| 22 | ST-01-1533-BH51-ASB(0.2m) | 08.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH52-ASB(0.2m) | 08.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 23 | ST-01-1533-BH53ASB(0.2m) | 08.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH54-ASB(0.2m) | 09.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| 24 | ST-01-1533-BH55-ASB(0.2m) | 09.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH56-ASB(0.2m) | 09.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| 25 | ST-01-1533-BH57-ASB(0.2m) | 09.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH58-ASB(0.2m) | 09.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| 26 | ST-01-1533-BH59-ASB(0.2m) | 09.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH60-ASB(0.2m) | 09.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| 27 | ST-01-1533-BH61-ASB(0.2m) | 09.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH62-ASB(0.2m) | 09.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| 28 | ST-01-1533-BH63-ASB(0.2m) | 7.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH64-ASB(0.2m) | 08.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| 29 | ST-01-1533-BH65-ASB(0.2m) | 08.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH66-ASB(0.2m) | 08.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| 30 | ST-01-1533-BH67-ASB(0.2m) | 08.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH68-ASB(0.2m) | 08.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| 31 | ST-01-1533-BH69-ASB(0.2m) | 08.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH70-ASB(0.2m) | 08.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| 32 | ST-01-1533-BH71-ASB(0.2m) | 08.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH72-ASB(0.2m) | 08.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| 33 | ST-01-1533-BH74-ASB(0.2m) | 08.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH75-ASB(0.2m) | 08.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| 34 | ST-01-1533-BH76-ASB(0.2m) | 08.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH77-ASB(0.2m) | 08.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| 35 | ST-01-1533-BH78-ASB(0.2m) | 09.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH79-ASB(0.2m) | 09.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| 36 | ST-01-1533-BH80-ASB(0.2m) | 09.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH81-ASB(0.2m) | 09.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| 37 | ST-01-1533-BH82-ASB(0.2m) | 09.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH83-ASB(0.2m) | 09.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| 38 | ST-01-1533-BH84-ASB(0.2m) | 09.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH85-ASB(0.2m) | 09.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| 39 | ST-01-1533-BH86-ASB(0.2m) | 09.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH87-ASB(0.2m) | 09.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| 40 | ST-01-1533-BH88-ASB(0.2m) | 09.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH89-ASB(0.2m) | 09.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| 41 | ST-01-1533-BH90-ASB(0.2m) | 09.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH91-ASB(0.2m) | 09.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| 42 | ST-01-1533-BH93-ASB(0.2m) | 08.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH95-ASB(0.2m) | 08.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| 43 | ST-01-1533-BH96-ASB(0.2m) | 08.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-BH97-ASB(0.2m) | 08.11.2022 | | Soil | | 1 | | | HOLD | | | | | | | | | | |
| 44 | ST-01-1533-BH98-ASB(0.2m) | 08.11.2022 | | Soil | | 1 | | | X | | | | | | | | | | |
| | ST-01-1533-WD1 | 10.11.2022 | | Water | 4 | | | X | | | | | | | | | | | |
| | ST-01-1533-WD2 | 10.11.2022 | | Water | 4 | | | X | | | | | | | | | | | |
| | ST-01-1533-RIN | 10.11.2022 | | Rinsate | 4 | | | X | | | | | | | | | | | |
| | TRIP BLANK | | | | 1 | | | X | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | TRIP SPIKE | | | | 1 | | | X | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |

| | | | | | |
|---|---|---|---|---|---|
| Sampled By: | Sirish Baniya | | | Date: | 07/11/2022 - 10/11/2022 |
| Relinquished By: | Sirish Baniya | | | Date: | 11/11/2022 Time: 3pm |

# ANALYTICAL REPORT

Accreditation No. 2562

## CLIENT DETAILS

| | |
|---|---|
| Contact | Kannan Kaliappan |
| Client | K2 CONSULTING GROUP |
| Address | SUITE 222, 20B LEXINGTON DRIVE<br>BELLA VISTA NSW 2153 |
| Telephone | 61 8 00 523 000 |
| Facsimile | (Not specified) |
| Email | kannan@k2consultinggroup.com.au |
| Project | **ST-01-1533 (515 Crookwell Road, Kingsdal** |
| Order Number | **ST-01-1533** |
| Samples | 101 |

## LABORATORY DETAILS

| | |
|---|---|
| Manager | Huong Crawford |
| Laboratory | SGS Alexandria Environmental |
| Address | Unit 16, 33 Maddox St<br>Alexandria NSW 2015 |
| Telephone | +61 2 8594 0400 |
| Facsimile | +61 2 8594 0499 |
| Email | au.environmental.sydney@sgs.com |
| SGS Reference | **SE239041C R0** |
| Date Received | 12/1/2023 |
| Date Reported | 20/1/2023 |

## COMMENTS

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

## SIGNATORIES

**Dong LIANG**
Metals/Inorganics Team Leader

**Shane MCDERMOTT**
Inorganic/Metals Chemist

## Hexavalent Chromium in Soil UV/Vis [AN075/AN201] Tested: 16/1/2023

| PARAMETER | UOM | LOR | BH12(0.7m) SOIL - 7/11/2022 SE239041C.002 | BH18(0.2m) SOIL - 7/11/2022 SE239041C.008 | BH22(0.2m) SOIL - 7/11/2022 SE239041C.012 | BH23(0.2m) SOIL - 10/11/2022 SE239041C.013 | BH24(0.2m) SOIL - 7/11/2022 SE239041C.014 |
|---|---|---|---|---|---|---|---|
| Hexavalent Chromium, Cr6+ | mg/kg | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |

| PARAMETER | UOM | LOR | BH25(0.2m) SOIL - 7/11/2022 SE239041C.015 | BH29(0.5m) SOIL - 10/11/2022 SE239041C.019 | BH30(0.2m) SOIL - 9/11/2022 SE239041C.020 | BH32(0.2m) SOIL - 8/11/2022 SE239041C.022 | BH38(0.2m) SOIL - 9/11/2022 SE239041C.028 |
|---|---|---|---|---|---|---|---|
| Hexavalent Chromium, Cr6+ | mg/kg | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |

| PARAMETER | UOM | LOR | BH43(0.2m) SOIL - 9/11/2022 SE239041C.033 | BH45(0.2m) SOIL - 9/11/2022 SE239041C.035 | BH46(0.2m) SOIL - 9/11/2022 SE239041C.036 | BH51(0.2m) SOIL - 8/11/2022 SE239041C.041 | BH55(0.7m) SOIL - 9/11/2022 SE239041C.045 |
|---|---|---|---|---|---|---|---|
| Hexavalent Chromium, Cr6+ | mg/kg | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |

| PARAMETER | UOM | LOR | BH61(0.5m) SOIL - 9/11/2022 SE239041C.051 | BH63(0.2m) SOIL - 7/11/2022 SE239041C.053 | BH67(0.2m) SOIL - 8/11/2022 SE239041C.057 | BH71(0.2m) SOIL - 8/11/2022 SE239041C.061 | BH75(1.0m) SOIL - 8/11/2022 SE239041C.065 |
|---|---|---|---|---|---|---|---|
| Hexavalent Chromium, Cr6+ | mg/kg | 0.5 | **0.5** | <0.5 | <0.5 | <0.5 | <0.5 |

| PARAMETER | UOM | LOR | BH78(0.2m) SOIL - 9/11/2022 SE239041C.068 | BH82(0.2m) SOIL - 9/11/2022 SE239041C.072 | BH85(0.2m) SOIL - 9/11/2022 SE239041C.075 | BH89(0.2m) SOIL - 9/11/2022 SE239041C.079 | BH93(0.2m) SOIL - 8/11/2022 SE239041C.083 |
|---|---|---|---|---|---|---|---|
| Hexavalent Chromium, Cr6+ | mg/kg | 0.5 | <0.5 | **1.3** | <0.5 | **1.2** | <0.5 |

| PARAMETER | UOM | LOR | BH94(0.2m) SOIL - 8/11/2022 SE239041C.084 | BH98(0.2m) SOIL - 8/11/2022 SE239041C.088 |
|---|---|---|---|---|
| Hexavalent Chromium, Cr6+ | mg/kg | 0.5 | <0.5 | <0.5 |

## Hexavalent Chromium in water ASLP DI by Discrete Analyser [AN283] Tested: 18/1/2023

| PARAMETER | UOM | LOR | BH13(0.2m) SOIL - 7/11/2022 SE239041C.003 | BH14(0.2m) SOIL - 7/11/2022 SE239041C.004 | BH21(0.5m) SOIL - 7/11/2022 SE239041C.011 | BH33(0.2m) SOIL - 8/11/2022 SE239041C.023 | BH40(0.2m) SOIL - 7/11/2022 SE239041C.030 |
|---|---|---|---|---|---|---|---|
| Hexavalent Chromium, Cr6+ | mg/L | 0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 |

| PARAMETER | UOM | LOR | BH57(0.2m) SOIL - 9/11/2022 SE239041C.047 | BH59(0.2m) SOIL - 9/11/2022 SE239041C.049 | BH60(0.2m) SOIL - 9/11/2022 SE239041C.050 | BH62(0.2m) SOIL - 9/11/2022 SE239041C.052 | BH64(0.2m) SOIL - 8/11/2022 SE239041C.054 |
|---|---|---|---|---|---|---|---|
| Hexavalent Chromium, Cr6+ | mg/L | 0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 |

| METHOD | METHODOLOGY SUMMARY |
|---|---|
| AN007/AS4439.3 | Contaminants of interest in a waste material are leached out of the waste with a selected leaching solution under controlled conditions. The ratio of sample to extraction fluid is 100 g to 2 L (1 to 20 by mass). The concentration of each contaminant of interest is determined in the leachate by appropriate methods after separation from the sample by filtering. Based on AS4439.3. |
| AN075 | This method uses an alkaline digestion to solubilise both water-soluble and water-insoluble forms of hexavalent chromium in solids. The solution is then pH adjusted and the hexavalent chromium concentration in solution determined colourimetrically. |
| AN201 | Cr6+ is determined colourimetrically by reaction with diphenylcarbazide in acid solution. A red-violet colour of unknown composition is produced. |
| AN283 | Hexavalent Chromium via DA: Soluble hexavalent chromium forms a red/violet colour with diphenylcarbazide in acidic solution. This procedure is very sensitive and nearly specific for Cr6+. If total chromium is also measured the trivalent form of chromium Cr3+ can be calculated from the difference (Total Cr - Cr6+). Reference APHA3500CrB. |

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:

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

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

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

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.

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# STATEMENT OF QA/QC PERFORMANCE

**SE239041C R0**

## CLIENT DETAILS

| | |
|---|---|
| Contact | Kannan Kaliappan |
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| Address | SUITE 222, 20B LEXINGTON DRIVE<br>BELLA VISTA NSW 2153 |
| Telephone | 61 8 00 523 000 |
| Facsimile | (Not specified) |
| Email | kannan@k2consultinggroup.com.au |
| Project | **ST-01-1533 (515 Crookwell Road, Kingsdal** |
| Order Number | **ST-01-1533** |
| Samples | 101 |

## LABORATORY DETAILS

| | |
|---|---|
| Manager | Huong Crawford |
| Laboratory | SGS Alexandria Environmental |
| Address | Unit 16, 33 Maddox St<br>Alexandria NSW 2015 |
| Telephone | +61 2 8594 0400 |
| Facsimile | +61 2 8594 0499 |
| Email | au.environmental.sydney@sgs.com |
| SGS Reference | **SE239041C R0** |
| Date Received | 12 Jan 2023 |
| Date Reported | 20 Jan 2023 |

## COMMENTS

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

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

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

| | | |
|---|---|---|
| Extraction Date | Hexavalent Chromium in Soil UV/Vis | 27 items |
| | Hexavalent Chromium in water ASLP DI by Discrete Analyser | 10 items |
| Analysis Date | Hexavalent Chromium in water ASLP DI by Discrete Analyser | 10 items |

## SAMPLE SUMMARY

| | | | |
|---|---|---|---|
| Sample counts by matrix | 37 Soil | Type of documentation received | COC |
| Date documentation received | 12/1/2023@8:51am | Samples received in good order | Yes |
| Samples received without headspace | Yes | Sample temperature upon receipt | 14.6°C |
| Sample container provider | SGS | Turnaround time requested | Standard |
| Samples received in correct containers | Yes | Sufficient sample for analysis | Yes |
| Sample cooling method | Ice Bricks | Samples clearly labelled | Yes |
| Complete documentation received | Yes | | |

# HOLDING TIME SUMMARY

SE239041C 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

**Hexavalent Chromium in Soil UV/Vis** — **Method: ME-(AU)-[ENV]AN075/AN201**

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH12(0.7m) | SE239041C.002 | LB268863 | 07 Nov 2022 | 12 Jan 2023 | 05 Dec 2022 | 16 Jan 2023† | 23 Jan 2023 | 19 Jan 2023 |
| BH18(0.2m) | SE239041C.008 | LB268863 | 07 Nov 2022 | 12 Jan 2023 | 05 Dec 2022 | 16 Jan 2023† | 23 Jan 2023 | 19 Jan 2023 |
| BH22(0.2m) | SE239041C.012 | LB268863 | 07 Nov 2022 | 12 Jan 2023 | 05 Dec 2022 | 16 Jan 2023† | 23 Jan 2023 | 19 Jan 2023 |
| BH23(0.2m) | SE239041C.013 | LB268863 | 10 Nov 2022 | 12 Jan 2023 | 08 Dec 2022 | 16 Jan 2023† | 23 Jan 2023 | 19 Jan 2023 |
| BH24(0.2m) | SE239041C.014 | LB268863 | 07 Nov 2022 | 12 Jan 2023 | 05 Dec 2022 | 16 Jan 2023† | 23 Jan 2023 | 19 Jan 2023 |
| BH25(0.2m) | SE239041C.015 | LB268863 | 07 Nov 2022 | 12 Jan 2023 | 05 Dec 2022 | 16 Jan 2023† | 23 Jan 2023 | 19 Jan 2023 |
| BH29(0.5m) | SE239041C.019 | LB268863 | 10 Nov 2022 | 12 Jan 2023 | 08 Dec 2022 | 16 Jan 2023† | 23 Jan 2023 | 19 Jan 2023 |
| BH30(0.2m) | SE239041C.020 | LB268863 | 09 Nov 2022 | 12 Jan 2023 | 07 Dec 2022 | 16 Jan 2023† | 23 Jan 2023 | 19 Jan 2023 |
| BH32(0.2m) | SE239041C.022 | LB268863 | 08 Nov 2022 | 12 Jan 2023 | 06 Dec 2022 | 16 Jan 2023† | 23 Jan 2023 | 19 Jan 2023 |
| BH38(0.2m) | SE239041C.028 | LB268863 | 09 Nov 2022 | 12 Jan 2023 | 07 Dec 2022 | 16 Jan 2023† | 23 Jan 2023 | 19 Jan 2023 |
| BH43(0.2m) | SE239041C.033 | LB268863 | 09 Nov 2022 | 12 Jan 2023 | 07 Dec 2022 | 16 Jan 2023† | 23 Jan 2023 | 19 Jan 2023 |
| BH45(0.2m) | SE239041C.035 | LB268863 | 09 Nov 2022 | 12 Jan 2023 | 07 Dec 2022 | 16 Jan 2023† | 23 Jan 2023 | 19 Jan 2023 |
| BH46(0.2m) | SE239041C.036 | LB268863 | 09 Nov 2022 | 12 Jan 2023 | 07 Dec 2022 | 16 Jan 2023† | 23 Jan 2023 | 19 Jan 2023 |
| BH51(0.2m) | SE239041C.041 | LB268863 | 08 Nov 2022 | 12 Jan 2023 | 06 Dec 2022 | 16 Jan 2023† | 23 Jan 2023 | 19 Jan 2023 |
| BH55(0.7m) | SE239041C.045 | LB268863 | 09 Nov 2022 | 12 Jan 2023 | 07 Dec 2022 | 16 Jan 2023† | 23 Jan 2023 | 19 Jan 2023 |
| BH61(0.5m) | SE239041C.051 | LB268863 | 09 Nov 2022 | 12 Jan 2023 | 07 Dec 2022 | 16 Jan 2023† | 23 Jan 2023 | 19 Jan 2023 |
| BH63(0.2m) | SE239041C.053 | LB268863 | 07 Nov 2022 | 12 Jan 2023 | 05 Dec 2022 | 16 Jan 2023† | 23 Jan 2023 | 19 Jan 2023 |
| BH67(0.2m) | SE239041C.057 | LB268863 | 08 Nov 2022 | 12 Jan 2023 | 06 Dec 2022 | 16 Jan 2023† | 23 Jan 2023 | 19 Jan 2023 |
| BH71(0.2m) | SE239041C.061 | LB268863 | 08 Nov 2022 | 12 Jan 2023 | 06 Dec 2022 | 16 Jan 2023† | 23 Jan 2023 | 19 Jan 2023 |
| BH75(1.0m) | SE239041C.065 | LB268863 | 08 Nov 2022 | 12 Jan 2023 | 06 Dec 2022 | 16 Jan 2023† | 23 Jan 2023 | 19 Jan 2023 |
| BH78(0.2m) | SE239041C.068 | LB268967 | 09 Nov 2022 | 12 Jan 2023 | 07 Dec 2022 | 18 Jan 2023† | 25 Jan 2023 | 19 Jan 2023 |
| BH82(0.2m) | SE239041C.072 | LB268967 | 09 Nov 2022 | 12 Jan 2023 | 07 Dec 2022 | 18 Jan 2023† | 25 Jan 2023 | 19 Jan 2023 |
| BH85(0.2m) | SE239041C.075 | LB268967 | 09 Nov 2022 | 12 Jan 2023 | 07 Dec 2022 | 18 Jan 2023† | 25 Jan 2023 | 19 Jan 2023 |
| BH89(0.2m) | SE239041C.079 | LB268967 | 09 Nov 2022 | 12 Jan 2023 | 07 Dec 2022 | 18 Jan 2023† | 25 Jan 2023 | 19 Jan 2023 |
| BH93(0.2m) | SE239041C.083 | LB268967 | 08 Nov 2022 | 12 Jan 2023 | 06 Dec 2022 | 18 Jan 2023† | 25 Jan 2023 | 19 Jan 2023 |
| BH94(0.2m) | SE239041C.084 | LB268967 | 08 Nov 2022 | 12 Jan 2023 | 06 Dec 2022 | 18 Jan 2023† | 25 Jan 2023 | 19 Jan 2023 |
| BH98(0.2m) | SE239041C.088 | LB268967 | 08 Nov 2022 | 12 Jan 2023 | 06 Dec 2022 | 18 Jan 2023† | 25 Jan 2023 | 19 Jan 2023 |

**Hexavalent Chromium in water ASLP DI by Discrete Analyser** — **Method: ME-(AU)-[ENV]AN283**

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH13(0.2m) | SE239041C.003 | LB269082 | 07 Nov 2022 | 12 Jan 2023 | 12 Dec 2022 | 18 Jan 2023† | 12 Dec 2022 | 18 Jan 2023† |
| BH14(0.2m) | SE239041C.004 | LB269082 | 07 Nov 2022 | 12 Jan 2023 | 12 Dec 2022 | 18 Jan 2023† | 12 Dec 2022 | 18 Jan 2023† |
| BH21(0.5m) | SE239041C.011 | LB269082 | 07 Nov 2022 | 12 Jan 2023 | 12 Dec 2022 | 18 Jan 2023† | 12 Dec 2022 | 18 Jan 2023† |
| BH33(0.2m) | SE239041C.023 | LB269082 | 08 Nov 2022 | 12 Jan 2023 | 13 Dec 2022 | 18 Jan 2023† | 13 Dec 2022 | 18 Jan 2023† |
| BH40(0.2m) | SE239041C.030 | LB269082 | 07 Nov 2022 | 12 Jan 2023 | 12 Dec 2022 | 18 Jan 2023† | 12 Dec 2022 | 18 Jan 2023† |
| BH57(0.2m) | SE239041C.047 | LB269082 | 09 Nov 2022 | 12 Jan 2023 | 14 Dec 2022 | 18 Jan 2023† | 14 Dec 2022 | 18 Jan 2023† |
| BH59(0.2m) | SE239041C.049 | LB269082 | 09 Nov 2022 | 12 Jan 2023 | 14 Dec 2022 | 18 Jan 2023† | 14 Dec 2022 | 18 Jan 2023† |
| BH60(0.2m) | SE239041C.050 | LB269082 | 09 Nov 2022 | 12 Jan 2023 | 14 Dec 2022 | 18 Jan 2023† | 14 Dec 2022 | 18 Jan 2023† |
| BH62(0.2m) | SE239041C.052 | LB269082 | 09 Nov 2022 | 12 Jan 2023 | 14 Dec 2022 | 18 Jan 2023† | 14 Dec 2022 | 18 Jan 2023† |
| BH64(0.2m) | SE239041C.054 | LB269082 | 08 Nov 2022 | 12 Jan 2023 | 13 Dec 2022 | 18 Jan 2023† | 13 Dec 2022 | 18 Jan 2023† |

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

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

No surrogates were required for this job.

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.

**Hexavalent Chromium in Soil UV/Vis** — **Method: ME-(AU)-[ENV]AN075/AN201**

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB268863.001 | Hexavalent Chromium, Cr6+ | mg/kg | 0.5 | <0.5 |
| LB268967.001 | Hexavalent Chromium, Cr6+ | mg/kg | 0.5 | <0.5 |

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

**Hexavalent Chromium in Soil UV/Vis** — **Method: ME-(AU)-[ENV]AN075/AN201**

| Original | Duplicate | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|
| SE239041C.028 | LB268863.014 | Hexavalent Chromium, Cr6+ | mg/kg | 0.5 | <0.5 | <0.5 | 150 | 0 |
| SE239041C.065 | LB268863.025 | Hexavalent Chromium, Cr6+ | mg/kg | 0.5 | <0.5 | <0.5 | 200 | 0 |
| SE241523.003 | LB268967.014 | Hexavalent Chromium, Cr6+ | mg/kg | 0.5 | <0.5 | <0.5 | 200 | 0 |

**Hexavalent Chromium in water ASLP DI by Discrete Analyser** — **Method: ME-(AU)-[ENV]AN283**

| Original | Duplicate | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|
| SE239041C.054 | LB269082.014 | Hexavalent Chromium, Cr6+ | mg/L | 0.004 | <0.004 | <0.004 | 200 | 0 |

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

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

**Hexavalent Chromium in Soil UV/Vis** — **Method: ME-(AU)-[ENV]AN075/AN201**

| Sample Number | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|
| LB268863.002 | Hexavalent Chromium, Cr6+ | mg/kg | 0.5 | 18 | 20 | 70 - 130 | 91 |
| LB268967.002 | Hexavalent Chromium, Cr6+ | mg/kg | 0.5 | 19 | 20 | 70 - 130 | 97 |

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

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

No matrix spikes were required for this job.

# MATRIX SPIKE DUPLICATES

SE239041C R0

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The original result is the analyte concentration of the matrix spike. The Duplicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the

No matrix spike duplicates were required for this job.

Samples analysed as received.

Solid samples expressed on a dry weight basis.

QC criteria are subject to internal review according to the SGS QA/QC plan and may be provided on request or alternatively can be found here: https://www.sgs.com.au/~/media/Local/Australia/Documents/Technical Documents/MP-AU-ENV-QU-022 QA QC Plan.pdf

| | |
|---|---|
| * | NATA accreditation does not cover the performance of this service. |
| ** | Indicative data, theoretical holding time exceeded. |
| *** | Indicates that both * and ** apply. |
| - | Sample not analysed for this analyte. |
| IS | Insufficient sample for analysis. |
| LNR | Sample listed, but not received. |
| LOR | Limit of reporting. |
| QFH | QC result is above the upper tolerance. |
| QFL | QC result is below the lower tolerance. |
| ① | At least 2 of 3 surrogates are within acceptance criteria. |
| ② | RPD failed acceptance criteria due to sample heterogeneity. |
| ③ | Results less than 5 times LOR preclude acceptance criteria for RPD. |
| ④ | Recovery failed acceptance criteria due to matrix interference. |
| ⑤ | Recovery failed acceptance criteria due to the presence of significant concentration of analyte (i.e. the concentration of analyte exceeds the spike level). |
| ⑥ | LOR was raised due to sample matrix interference. |
| ⑦ | LOR was raised due to dilution of significantly high concentration of analyte in sample. |
| ⑧ | Reanalysis of sample in duplicate confirmed sample heterogeneity and inconsistency of results. |
| ⑨ | Recovery failed acceptance criteria due to sample heterogeneity. |
| ⑩ | LOR was raised due to high conductivity of the sample (required dilution). |
| † | Refer to relevant report comments for further information. |

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source: SE_Autoscan.pdf page: 1 SGS Ref: SE239041C_COC

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12/1/23 8:57a

SGS

LIMS No: _____

# Request for Laboratory Services and Chain of Custody Form

SGS Australia, Unit 16, 33 Maddox Street, Alexandria, NSW 2015 Ph: +61 2 8594 0400 Fax: +61 2 8594 0499 Email: au.samplereceipt.sydney@sgs.com

**Laboratory Section**

Received Date: _____ Received By: _____ Cooling Method: ☐ Ice ☐ Icepack ☐ None Samples intact: ☐ Yes ☐ No

Logged-in Date: _____ Time of Receipt: _____ Cooler Sealed: ☐ Yes ☐ No ☐ N/A Temperature: ☐ Ambient ☐ Chilled

COD must pay via cheque or credit card before analysis is commenced. AMEX & DINERS cards incur a 5% surcharge

**INVOICE TO:**

Name: Kannan Kaliappan

Company: K2 Consulting Group

Address: Suite 222 (Building B)

20 Lexington Drive, Bella Vista 2153

Email: kannan@k2consultinggroup.com.au; admin@k2consultinggroup.com.au

Phone: 449669559 Fax:

Quote #: _____

Attached Parameter List: ☐ Yes ☐ No

Replacement Sample Containers Required: ☐ Yes ☐ No

Results Required By: _____ Urgent TA requires lab approval

Notes:

**Client information** | PO No.: | Project No.: ST-01-1533 (515 Crookwell Road, Kingsdale NSW)

Company Name:

Contact Name:

Address:

Phone Number: | After Hours Phone Number:

Fax Number: | Email:

**Note:** Results will be sent via email to an unlimited number of addresses for no additional fee. In the absence of email, fax is available upon request.

Indicate results format (please check one): Email ☐ Fax ☐

**SAMPLE INFORMATION**

| Lab Sample ID | Sample Identifier | Date Sampled | Time | Matrix: Soil Water Other | # of Bottles | Analysis Requested: Chromium VI (mg/kg) | Analysis Requested: ASLP (Chromium III and Chromium VI) |
|---|---|---|---|---|---|---|---|
| 2 | ST-01-1533-BH12(0.7m) | 7/11/2022 | | SOIL | 1 | X | |
| 8 | ST-01-1533-BH18(0.2m) | 7/11/2022 | | SOIL | 1 | X | |
| 12 | ST-01-1533-BH22(0.2m) | 7/11/2022 | | SOIL | 1 | X | |
| 13 | ST-01-1533-BH23(0.2m) | 7/11/2022 | | SOIL | 1 | X | |
| 14 | ST-01-1533-BH24(0.2m) | 7/11/2022 | | SOIL | 1 | X | |
| 15 | ST-01-1533-BH25(0.2m) | 7/11/2022 | | SOIL | 1 | X | |
| 19 | ST-01-1533-BH29(0.5m) | 10/11/2022 | | SOIL | 1 | X | |
| 20 | ST-01-1533-BH30(0.2m) | 9/11/2022 | | SOIL | 1 | X | |
| 22 | ST-01-1533-BH32(0.2m) | 8/11/2022 | | SOIL | 1 | X | |
| 28 | ST-01-1533-BH38(0.2m) | 9/11/2022 | | SOIL | 1 | X | |
| 33 | ST-01-1533-BH43(0.2m) | 9/11/2022 | | SOIL | 1 | X | |
| 35 | ST-01-1533-BH45(0.2m) | 9/11/2022 | | SOIL | 1 | X | |
| 36 | ST-01-1533-BH46(0.2m) | 9/11/2022 | | SOIL | 1 | X | |
| 41 | ST-01-1533-BH51(0.2m) | 8/11/2022 | | SOIL | 1 | X | |
| 45 | ST-01-1533-BH55(0.7m) | 9/11/2022 | | SOIL | 1 | X | |
| 51 | ST-01-1533-BH61(0.5m) | 9/11/2022 | | SOIL | 1 | X | |
| 53 | ST-01-1533-BH63(0.2m) | 8/11/2022 | | SOIL | 1 | X | |
| 57 | ST-01-1533-BH67(0.2m) | 8/11/2022 | | SOIL | 1 | X | |
| 61 | ST-01-1533-BH71(0.2m) | 8/11/2022 | | SOIL | 1 | X | |
| 65 | ST-01-1533-BH75(1.0m) | 8/11/2022 | | SOIL | 1 | X | |
| 68 | ST-01-1533-BH78(0.2m) | 9/11/2022 | | SOIL | 1 | X | |
| 72 | ST-01-1533-BH82(0.2m) | 9/11/2022 | | SOIL | 1 | X | |
| 75 | ST-01-1533-BH85(0.2m) | 9/11/2022 | | SOIL | 1 | X | |
| 79 | ST-01-1533-BH89(0.2m) | 9/11/2022 | | SOIL | 1 | X | |
| 83 | ST-01-1533-BH93(0.2m) | 8/11/2022 | | SOIL | 1 | X | |
| 84 | ST-01-1533-BH94(0.2m) | 8/11/2022 | | SOIL | 1 | X | |
| 88 | ST-01-1533-BH98(0.2m) | 8/11/2022 | | SOIL | 1 | X | |
| 3 | ST-01-1533-BH13(0.2m) | 7/11/2022 | | SOIL | 1 | | X |
| 4 | ST-01-1533-BH14(0.2m) | 7/11/2022 | | SOIL | 1 | | X |
| 11 | ST-01-1533-BH21(0.5m) | 7/11/2022 | | SOIL | 1 | | X |
| 23 | ST-01-1533-BH33(0.2m) | 8/11/2022 | | SOIL | 1 | | X |
| 30 | ST-01-1533-BH40(0.2m) | 7/11/2022 | | SOIL | 1 | | X |
| 47 | ST-01-1533-BH57(0.2m) | 9/11/2022 | | SOIL | 1 | | X |
| 49 | ST-01-1533-BH59(0.2m) | 9/11/2022 | | SOIL | 1 | | X |
| 50 | ST-01-1533-BH60(0.2m) | 9/11/2022 | | SOIL | 1 | | X |
| 52 | ST-01-1533-BH62(0.2m) | 9/11/2022 | | SOIL | 1 | | X |
| 54 | ST-01-1533-BH64(0.2m) | 8/11/2022 | | SOIL | 1 | | X |

Sampled By: Sirish Baniya Date: 7/11/2022 - 10/11/2022

Relinquished By: SB Date: 11/11/2022 Time:

SGS EHS Alexandria Laboratory

SE239041C COC

Received: 12 – Jan – 2023

# ANALYTICAL REPORT

Accreditation No. 2562

## CLIENT DETAILS

| | |
|---|---|
| Contact | Kannan Kaliappan |
| Client | K2 CONSULTING GROUP |
| Address | SUITE 222, 20B LEXINGTON DRIVE<br>BELLA VISTA NSW 2153 |
| Telephone | 61 8 00 523 000 |
| Facsimile | (Not specified) |
| Email | kannan@k2consultinggroup.com.au |
| Project | **ST-01-1533 (515 Crookwell Road, Kingsdal** |
| Order Number | **ST-01-1533** |
| Samples | 101 |

## LABORATORY DETAILS

| | |
|---|---|
| Manager | Huong Crawford |
| Laboratory | SGS Alexandria Environmental |
| Address | Unit 16, 33 Maddox St<br>Alexandria NSW 2015 |
| Telephone | +61 2 8594 0400 |
| Facsimile | +61 2 8594 0499 |
| Email | au.environmental.sydney@sgs.com |
| SGS Reference | **SE239041B R0** |
| Date Received | 14/12/2022 |
| Date Reported | 20/12/2022 |

## COMMENTS

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

## SIGNATORIES

**Dong LIANG**
Metals/Inorganics Team Leader

**Huong CRAWFORD**
Production Manager

**Shane MCDERMOTT**
Inorganic/Metals Chemist

## Hexavalent Chromium in Soil UV/Vis [AN075/AN201] Tested: 16/12/2022

| PARAMETER | UOM | LOR | BH13(0.2m) SOIL - 7/11/2022 SE239041B.003 | BH14(0.2m) SOIL - 7/11/2022 SE239041B.004 | BH15(0.5m) SOIL - 7/11/2022 SE239041B.005 | BH16(0.2m) SOIL - 7/11/2022 SE239041B.006 | BH19(0.2m) SOIL - 7/11/2022 SE239041B.009 |
|---|---|---|---|---|---|---|---|
| Hexavalent Chromium, Cr6+ | mg/kg | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |

| PARAMETER | UOM | LOR | BH21(0.5m) SOIL - 7/11/2022 SE239041B.011 | BH27(0.2m) SOIL - 10/11/2022 SE239041B.017 | BH28(0.4m) SOIL - 7/11/2022 SE239041B.018 | BH31(0.2m) SOIL - 9/11/2022 SE239041B.021 | BH33(0.2m) SOIL - 8/11/2022 SE239041B.023 |
|---|---|---|---|---|---|---|---|
| Hexavalent Chromium, Cr6+ | mg/kg | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |

| PARAMETER | UOM | LOR | BH40(0.2m) SOIL - 7/11/2022 SE239041B.030 | BH41(0.5m) SOIL - 7/11/2022 SE239041B.031 | BH54(0.2m) SOIL - 9/11/2022 SE239041B.044 | BH57(0.2m) SOIL - 9/11/2022 SE239041B.047 | BH58(0.2m) SOIL - 9/11/2022 SE239041B.048 |
|---|---|---|---|---|---|---|---|
| Hexavalent Chromium, Cr6+ | mg/kg | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |

| PARAMETER | UOM | LOR | BH59(0.2m) SOIL - 9/11/2022 SE239041B.049 | BH60(0.2m) SOIL - 9/11/2022 SE239041B.050 | BH62(0.2m) SOIL - 9/11/2022 SE239041B.052 | BH64(0.2m) SOIL - 8/11/2022 SE239041B.054 | BH68(0.6m) SOIL - 8/11/2022 SE239041B.058 |
|---|---|---|---|---|---|---|---|
| Hexavalent Chromium, Cr6+ | mg/kg | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |

| PARAMETER | UOM | LOR | BH84(0.1m) SOIL - 9/11/2022 SE239041B.074 | BH91(1.0m) SOIL - 9/11/2022 SE239041B.081 |
|---|---|---|---|---|
| Hexavalent Chromium, Cr6+ | mg/kg | 0.5 | <0.5 | <0.5 |

| METHOD | METHODOLOGY SUMMARY |
|---|---|
| AN075 | This method uses an alkaline digestion to solubilise both water-soluble and water-insoluble forms of hexavalent chromium in solids. The solution is then pH adjusted and the hexavalent chromium concentration in solution determined colourimetrically. |
| AN201 | Cr6+ is determined colourimetrically by reaction with diphenylcarbazide in acid solution. A red-violet colour of unknown composition is produced. |

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:

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

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

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

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# STATEMENT OF QA/QC PERFORMANCE

**SE239041B R0**

## CLIENT DETAILS

| | |
|---|---|
| Contact | Kannan Kaliappan |
| Client | K2 CONSULTING GROUP |
| Address | SUITE 222, 20B LEXINGTON DRIVE<br>BELLA VISTA NSW 2153 |
| Telephone | 61 8 00 523 000 |
| Facsimile | (Not specified) |
| Email | kannan@k2consultinggroup.com.au |
| Project | **ST-01-1533 (515 Crookwell Road, Kingsdal** |
| Order Number | **ST-01-1533** |
| Samples | 101 |

## LABORATORY DETAILS

| | |
|---|---|
| Manager | Huong Crawford |
| Laboratory | SGS Alexandria Environmental |
| Address | Unit 16, 33 Maddox St<br>Alexandria NSW 2015 |
| Telephone | +61 2 8594 0400 |
| Facsimile | +61 2 8594 0499 |
| Email | au.environmental.sydney@sgs.com |
| SGS Reference | **SE239041B R0** |
| Date Received | 14 Dec 2022 |
| Date Reported | 20 Dec 2022 |

## COMMENTS

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

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

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

| | | |
|---|---|---|
| Extraction Date | Hexavalent Chromium in Soil UV/Vis | 22 items |

## SAMPLE SUMMARY

| | | | |
|---|---|---|---|
| Sample counts by matrix | 22 Soil | Type of documentation received | COC |
| Date documentation received | 14/12/2022@7:00pr | Samples received in good order | Yes |
| Samples received without headspace | Yes | Sample temperature upon receipt | 14.6°C |
| Sample container provider | SGS | Turnaround time requested | Three Days |
| Samples received in correct containers | Yes | Sufficient sample for analysis | Yes |
| Sample cooling method | Ice Bricks | Samples clearly labelled | Yes |
| Complete documentation received | Yes | | |

# HOLDING TIME SUMMARY

SE239041B 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

**Hexavalent Chromium in Soil UV/Vis** — **Method: ME-(AU)-[ENV]AN075/AN201**

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH13(0.2m) | SE239041B.003 | LB267170 | 07 Nov 2022 | 14 Dec 2022 | 05 Dec 2022 | 16 Dec 2022† | 23 Dec 2022 | 20 Dec 2022 |
| BH14(0.2m) | SE239041B.004 | LB267170 | 07 Nov 2022 | 14 Dec 2022 | 05 Dec 2022 | 16 Dec 2022† | 23 Dec 2022 | 20 Dec 2022 |
| BH15(0.5m) | SE239041B.005 | LB267170 | 07 Nov 2022 | 14 Dec 2022 | 05 Dec 2022 | 16 Dec 2022† | 23 Dec 2022 | 20 Dec 2022 |
| BH16(0.2m) | SE239041B.006 | LB267170 | 07 Nov 2022 | 14 Dec 2022 | 05 Dec 2022 | 16 Dec 2022† | 23 Dec 2022 | 20 Dec 2022 |
| BH19(0.2m) | SE239041B.009 | LB267170 | 07 Nov 2022 | 14 Dec 2022 | 05 Dec 2022 | 16 Dec 2022† | 23 Dec 2022 | 20 Dec 2022 |
| BH21(0.5m) | SE239041B.011 | LB267170 | 07 Nov 2022 | 14 Dec 2022 | 05 Dec 2022 | 16 Dec 2022† | 23 Dec 2022 | 20 Dec 2022 |
| BH27(0.2m) | SE239041B.017 | LB267170 | 10 Nov 2022 | 14 Dec 2022 | 08 Dec 2022 | 16 Dec 2022† | 23 Dec 2022 | 20 Dec 2022 |
| BH28(0.4m) | SE239041B.018 | LB267170 | 07 Nov 2022 | 14 Dec 2022 | 05 Dec 2022 | 16 Dec 2022† | 23 Dec 2022 | 20 Dec 2022 |
| BH31(0.2m) | SE239041B.021 | LB267170 | 09 Nov 2022 | 14 Dec 2022 | 07 Dec 2022 | 16 Dec 2022† | 23 Dec 2022 | 20 Dec 2022 |
| BH33(0.2m) | SE239041B.023 | LB267170 | 08 Nov 2022 | 14 Dec 2022 | 06 Dec 2022 | 16 Dec 2022† | 23 Dec 2022 | 20 Dec 2022 |
| BH40(0.2m) | SE239041B.030 | LB267170 | 07 Nov 2022 | 14 Dec 2022 | 05 Dec 2022 | 16 Dec 2022† | 23 Dec 2022 | 20 Dec 2022 |
| BH41(0.5m) | SE239041B.031 | LB267170 | 07 Nov 2022 | 14 Dec 2022 | 05 Dec 2022 | 16 Dec 2022† | 23 Dec 2022 | 20 Dec 2022 |
| BH54(0.2m) | SE239041B.044 | LB267170 | 09 Nov 2022 | 14 Dec 2022 | 07 Dec 2022 | 16 Dec 2022† | 23 Dec 2022 | 20 Dec 2022 |
| BH57(0.2m) | SE239041B.047 | LB267170 | 09 Nov 2022 | 14 Dec 2022 | 07 Dec 2022 | 16 Dec 2022† | 23 Dec 2022 | 20 Dec 2022 |
| BH58(0.2m) | SE239041B.048 | LB267170 | 09 Nov 2022 | 14 Dec 2022 | 07 Dec 2022 | 16 Dec 2022† | 23 Dec 2022 | 20 Dec 2022 |
| BH59(0.2m) | SE239041B.049 | LB267170 | 09 Nov 2022 | 14 Dec 2022 | 07 Dec 2022 | 16 Dec 2022† | 23 Dec 2022 | 20 Dec 2022 |
| BH60(0.2m) | SE239041B.050 | LB267170 | 09 Nov 2022 | 14 Dec 2022 | 07 Dec 2022 | 16 Dec 2022† | 23 Dec 2022 | 20 Dec 2022 |
| BH62(0.2m) | SE239041B.052 | LB267170 | 09 Nov 2022 | 14 Dec 2022 | 07 Dec 2022 | 16 Dec 2022† | 23 Dec 2022 | 20 Dec 2022 |
| BH64(0.2m) | SE239041B.054 | LB267170 | 08 Nov 2022 | 14 Dec 2022 | 06 Dec 2022 | 16 Dec 2022† | 23 Dec 2022 | 20 Dec 2022 |
| BH68(0.6m) | SE239041B.058 | LB267238 | 08 Nov 2022 | 14 Dec 2022 | 06 Dec 2022 | 19 Dec 2022† | 26 Dec 2022 | 20 Dec 2022 |
| BH84(0.1m) | SE239041B.074 | LB267238 | 09 Nov 2022 | 14 Dec 2022 | 07 Dec 2022 | 19 Dec 2022† | 26 Dec 2022 | 20 Dec 2022 |
| BH91(1.0m) | SE239041B.081 | LB267238 | 09 Nov 2022 | 14 Dec 2022 | 07 Dec 2022 | 19 Dec 2022† | 26 Dec 2022 | 20 Dec 2022 |

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

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

No surrogates were required for this job.

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.

**Hexavalent Chromium in Soil UV/Vis** — **Method: ME-(AU)-[ENV]AN075/AN201**

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB267170.001 | Hexavalent Chromium, Cr6+ | mg/kg | 0.5 | <0.5 |
| LB267238.001 | Hexavalent Chromium, Cr6+ | mg/kg | 0.5 | <0.5 |

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

**Hexavalent Chromium in Soil UV/Vis** — **Method: ME-(AU)-[ENV]AN075/AN201**

| Original | Duplicate | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|
| SE239041B.023 | LB267170.014 | Hexavalent Chromium, Cr6+ | mg/kg | 0.5 | <0.5 | <0.5 | 200 | 0 |
| SE239041B.054 | LB267170.024 | Hexavalent Chromium, Cr6+ | mg/kg | 0.5 | <0.5 | <0.5 | 200 | 0 |
| SE239041B.081 | LB267238.008 | Hexavalent Chromium, Cr6+ | mg/kg | 0.5 | <0.5 | <0.5 | 200 | 0 |

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

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

**Hexavalent Chromium in Soil UV/Vis** — **Method: ME-(AU)-[ENV]AN075/AN201**

| Sample Number | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|
| LB267170.002 | Hexavalent Chromium, Cr6+ | mg/kg | 0.5 | 18 | 20 | 70 - 130 | 88 |
| LB267238.002 | Hexavalent Chromium, Cr6+ | mg/kg | 0.5 | 18 | 20 | 70 - 130 | 92 |

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

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

No matrix spikes were required for this job.

# MATRIX SPIKE DUPLICATES

SE239041B R0

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The original result is the analyte concentration of the matrix spike. The Duplicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the

No matrix spike duplicates were required for this job.

Samples analysed as received.

Solid samples expressed on a dry weight basis.

QC criteria are subject to internal review according to the SGS QA/QC plan and may be provided on request or alternatively can be found here: https://www.sgs.com.au/~/media/Local/Australia/Documents/Technical Documents/MP-AU-ENV-QU-022 QA QC Plan.pdf

| | |
|---|---|
| * | NATA accreditation does not cover the performance of this service. |
| ** | Indicative data, theoretical holding time exceeded. |
| *** | Indicates that both * and ** apply. |
| - | Sample not analysed for this analyte. |
| IS | Insufficient sample for analysis. |
| LNR | Sample listed, but not received. |
| LOR | Limit of reporting. |
| QFH | QC result is above the upper tolerance. |
| QFL | QC result is below the lower tolerance. |
| ① | At least 2 of 3 surrogates are within acceptance criteria. |
| ② | RPD failed acceptance criteria due to sample heterogeneity. |
| ③ | Results less than 5 times LOR preclude acceptance criteria for RPD. |
| ④ | Recovery failed acceptance criteria due to matrix interference. |
| ⑤ | Recovery failed acceptance criteria due to the presence of significant concentration of analyte (i.e. the concentration of analyte exceeds the spike level). |
| ⑥ | LOR was raised due to sample matrix interference. |
| ⑦ | LOR was raised due to dilution of significantly high concentration of analyte in sample. |
| ⑧ | Reanalysis of sample in duplicate confirmed sample heterogeneity and inconsistency of results. |
| ⑨ | Recovery failed acceptance criteria due to sample heterogeneity. |
| ⑩ | LOR was raised due to high conductivity of the sample (required dilution). |
| † | Refer to relevant report comments for further information. |

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source: SE_Autoscan.pdf page: 1 SGS Ref: SE239041B_COC

E-MAILED
14/12 @ 7pm.

SGS

LIMS No: _____

# Request for Laboratory Services and Chain of Custody Form

SGS Australia, Unit 16, 33 Maddox Street, Alexandria, NSW 2015 Ph: +61 2 8594 0400 Fax: +61 2 8594 0499 Email: au.samplereceipt.sydney@sgs.com

**Laboratory Section**

Received Date: 14/12/22 | Received By: [illegible] | Cooling Method: ☐ Ice ☐ Icepack ☐ None | Samples intact: ☐ Yes ☐ No

Logged-in Date: 14/12/22 ✓ | Time of Receipt: 9pm | Cooler Sealed: ☐ Yes ☐ No ☐ N/A | Temperature: ☐ Ambient ☐ Chilled

COD must pay via cheque or credit card before analysis is commenced. AMEX & DINERS cards incur a 5% surcharge

**INVOICE TO:**

Name: K2 Consulting Group
Company: K2 Consulting Group
Address: Suite 222 (Building B)
20 Lexington Drive, Bella Vista NSW 2153
Email: kannan@k2consultinggroup.com.au, admin@k2consultinggroup.com.au
Phone: 449669559 Fax:

Quote #:
Attached Parameter List: ☐ Yes ☐ No
Replacement Sample Containers Required: ☐ Yes ☐ No
Results Required By: 3 day TAT Urgent TA requires lab approval
Notes:

**Client information** | PO No.: | Project No.: ST-01-1533 (515 Crookwell Road, Kingsdale)

**Company Name:** K2 Consulting Group
**Contact Name:** Kannan Kaliappan
**Address:** Suite 222 (Building B), 20 Lexington Drive, Bella Vista NSW 2153
**Phone Number:** 449669559 | **After Hours Phone Number:**
**Fax Number:** | **Email:** kannan@k2consultinggroup.com.au; sirish@k2consultinggroup.com.au

**Note:** Results will be sent via email to an unlimited number of addresses for no additional fee. In the absence of email, fax is available upon request.

**Indicate results format (please check one):** Email ☐ Fax ☐

**SAMPLE INFORMATION**

| Lab Sample ID | Sample Identifier | Date Sampled | Time | Matrix: Soil Water Other | # of Bottles | Analysis Requested: Chromium VI | |
|---|---|---|---|---|---|---|---|
| 3 | ST-01-1533-BH13 (0.2m) | 7/11/2022 | | Soil | 1 | X | |
| 4 | ST-01-1533-BH14 (0.2m) | 7/11/2022 | | Soil | 1 | X | |
| 5 | ST-01-1533-BH15 (0.5m) | 7/11/2022 | | Soil | 1 | X | |
| 6 | ST-01-1533-BH16 (0.2m) | 7/11/2022 | | Soil | 1 | X | |
| 9 | ST-01-1533-BH19 (0.2m) | 7/11/2022 | | Soil | 1 | X | |
| 11 | ST-01-1533-BH21 (0.5m) | 7/11/2022 | | Soil | 1 | X | |
| 17 | ST-01-1533-BH27 (0.2m) | 10/11/2022 | | Soil | 1 | X | |
| 18 | ST-01-1533-BH28 (0.4m) | 7/11/2022 | | Soil | 1 | X | |
| 21 | ST-01-1533-BH31 (0.2m) | 9/11/2022 | | Soil | 1 | X | |
| 23 | ST-01-1533-BH33 (0.2m) | 8/11/2022 | | Soil | 1 | X | |
| 30 | ST-01-1533-BH40 (0.2m) | 7/11/2022 | | Soil | 1 | X | |
| 31 | ST-01-1533-BH41 (0.5m) | 7/11/2022 | | Soil | 1 | X | |
| 44 | ST-01-1533-BH54 (0.2m) | 9/11/2022 | | Soil | 1 | X | |
| 47 | ST-01-1533-BH57 (0.2m) | 9/11/2022 | | Soil | 1 | X | |
| 48 | ST-01-1533-BH58 (0.2m) | 9/11/2022 | | Soil | 1 | X | |
| 49 | ST-01-1533-BH59 (0.2m) | 9/11/2022 | | Soil | 1 | X | |
| 50 | ST-01-1533-BH60 (0.2m) | 9/11/2022 | | Soil | 1 | X | |
| 52 | ST-01-1533-BH62 (0.2m) | 9/11/2022 | | Soil | 1 | X | |
| 54 | ST-01-1533-BH64 (0.2m) | 8/11/2022 | | Soil | 1 | X | |
| 58 | ST-01-1533-BH68 (0.6m) | 8/11/2022 | | Soil | 1 | X | |
| 74 | ST-01-1533-BH84 (0.1m) | 8/11/2022 | | Soil | 1 | X | |
| 81 | ST-01-1533-BH91 (1.0m) | 9/11/2022 | | Soil | 1 | X | |

SGS EHS Alexandria Laboratory

SE239041B COC
Received: 14 – Dec – 2022

**Sampled By:** Sirish Baniya **Date:** 7th to 10th November 2022

**Relinquished By:** Sirish Baniya **Date:** 11/11/2022 **Time:** 3pm

# ANALYTICAL REPORT

Accreditation No. 2562

| CLIENT DETAILS | | LABORATORY DETAILS | |
|---|---|---|---|
| Contact | Kannan Kaliappan | Manager | Huong Crawford |
| Client | K2 CONSULTING GROUP | Laboratory | SGS Alexandria Environmental |
| Address | SUITE 222, 20B LEXINGTON DRIVE<br>BELLA VISTA NSW 2153 | Address | Unit 16, 33 Maddox St<br>Alexandria NSW 2015 |
| Telephone | 61 8 00 523 000 | Telephone | +61 2 8594 0400 |
| Facsimile | (Not specified) | Facsimile | +61 2 8594 0499 |
| Email | kannan@k2consultinggroup.com.au | Email | au.environmental.sydney@sgs.com |
| Project | **ST-01-1533(515 Crookwell Road, Kingsdale** | SGS Reference | **SE241552B R0** |
| Order Number | **ST-01-1533** | Date Received | 18 Jan 2023 |
| Samples | 7 | Date Reported | 20 Jan 2023 |

COMMENTS

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

SIGNATORIES

Dong LIANG
Metals/Inorganics Team Leader

| Parameter | Units | LOR | Sample Number<br>Sample Matrix<br>Sample Date<br>Sample Name | SE241552B.001<br>Water<br>10 Jan 2023<br>ST-01-1533-GW4 | SE241552B.002<br>Water<br>10 Jan 2023<br>ST-01-1533-GW5 | SE241552B.003<br>Water<br>10 Jan 2023<br>ST-01-1533-WD1 | SE241552B.004<br>Water<br>10 Jan 2023<br>ST-01-1533-WD2 |
|---|---|---|---|---|---|---|---|
| **Hexavalent Chromium in water by Discrete Analyser Method: AN283 Tested: 19/1/2023** | | | | | | | |
| Hexavalent Chromium, Cr6+ | mg/L | 0.004 | | <0.004 | **0.014** | <0.004 | <0.004 |
| **Hexavalent Chromium in Soil UV/Vis Method: AN075/AN201 Tested: 20/1/2023** | | | | | | | |
| Hexavalent Chromium, Cr6+ | mg/kg | 0.5 | | - | - | - | - |

| Parameter | Units | LOR | Sample Number<br>Sample Matrix<br>Sample Date<br>Sample Name<br>SE241552B.005<br>Water<br>10 Jan 2023<br>Trip Spike | SE241552B.006<br>Water<br>10 Jan 2023<br>Trip Blank | SE241552B.007<br>Soil<br>10 Jan 2023<br>ST-01-1533-WD1( Sediment) |
|---|---|---|---|---|---|
| **Hexavalent Chromium in water by Discrete Analyser Method: AN283 Tested: 20/1/2023** | | | | | |
| Hexavalent Chromium, Cr6+ | mg/L | 0.004 | - | - | - |
| **Hexavalent Chromium in Soil UV/Vis Method: AN075/AN201 Tested: 20/1/2023** | | | | | |
| Hexavalent Chromium, Cr6+ | mg/kg | 0.5 | - | - | **0.7** |

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

**Hexavalent Chromium in Soil UV/Vis** **Method: ME-(AU)-[ENV]AN075/AN201**

| Parameter | QC Reference | Units | LOR | MB | DUP %RPD | LCS %Recovery |
|---|---|---|---|---|---|---|
| Hexavalent Chromium, Cr6+ | LB269309 | mg/kg | 0.5 | <0.5 | 29% | 96% |

**Hexavalent Chromium in water by Discrete Analyser** **Method: ME-(AU)-[ENV]AN283**

| Parameter | QC Reference | Units | LOR | MB | DUP %RPD | LCS %Recovery | MS %Recovery |
|---|---|---|---|---|---|---|---|
| Hexavalent Chromium, Cr6+ | LB269177 | mg/L | 0.004 | <0.004 | 0% | 98% | 101% |

| METHOD | METHODOLOGY SUMMARY |
| --- | --- |
| AN075 | This method uses an alkaline digestion to solubilise both water-soluble and water-insoluble forms of hexavalent chromium in solids. The solution is then pH adjusted and the hexavalent chromium concentration in solution determined colourimetrically. |
| AN201 | Cr6+ is determined colourimetrically by reaction with diphenylcarbazide in acid solution. A red-violet colour of unknown composition is produced. |
| AN283 | Hexavalent Chromium via DA: Soluble hexavalent chromium forms a red/violet colour with diphenylcarbazide in acidic solution. This procedure is very sensitive and nearly specific for Cr6+. If total chromium is also measured the trivalent form of chromium Cr3+ can be calculated from the difference (Total Cr - Cr6+). Reference APHA3500CrB. |

FOOTNOTES

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

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

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

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

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

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

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

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

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

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# STATEMENT OF QA/QC PERFORMANCE

**SE241552B R0**

## CLIENT DETAILS

| | |
|---|---|
| Contact | Kannan Kaliappan |
| Client | K2 CONSULTING GROUP |
| Address | SUITE 222, 20B LEXINGTON DRIVE<br>BELLA VISTA NSW 2153 |
| Telephone | 61 8 00 523 000 |
| Facsimile | (Not specified) |
| Email | kannan@k2consultinggroup.com.au |
| Project | **ST-01-1533(515 Crookwell Road, Kingsdale** |
| Order Number | **ST-01-1533** |
| Samples | 7 |

## LABORATORY DETAILS

| | |
|---|---|
| Manager | Huong Crawford |
| Laboratory | SGS Alexandria Environmental |
| Address | Unit 16, 33 Maddox St<br>Alexandria NSW 2015 |
| Telephone | +61 2 8594 0400 |
| Facsimile | +61 2 8594 0499 |
| Email | au.environmental.sydney@sgs.com |
| SGS Reference | **SE241552B R0** |
| Date Received | 18 Jan 2023 |
| Date Reported | 20 Jan 2023 |

## 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 (within the SGS Alexandria Environmental laboratory).

## SAMPLE SUMMARY

| | | | |
|---|---|---|---|
| Sample counts by matrix | 4 Water, 1 Soil | Type of documentation received | COC |
| Date documentation received | 18/1/2023@12:11pn | Samples received in good order | Yes |
| Samples received without headspace | Yes | Sample temperature upon receipt | 10.0°C |
| Sample container provider | SGS | Turnaround time requested | Two Days |
| Samples received in correct containers | Yes | Sufficient sample for analysis | Yes |
| Sample cooling method | Ice | Samples clearly labelled | Yes |
| Complete documentation received | Yes | | |

# HOLDING TIME SUMMARY

SE241552B 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

**Hexavalent Chromium in Soil UV/Vis** — Method: ME-(AU)-[ENV]AN075/AN201

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| ST-01-1533-WD1(Sediment | SE241552B.007 | LB269309 | 10 Jan 2023 | 18 Jan 2023 | 07 Feb 2023 | 20 Jan 2023 | 27 Jan 2023 | 20 Jan 2023 |

**Hexavalent Chromium in water by Discrete Analyser** — Method: ME-(AU)-[ENV]AN283

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| ST-01-1533-GW4 | SE241552B.001 | LB269177 | 10 Jan 2023 | 18 Jan 2023 | 07 Feb 2023 | 19 Jan 2023 | 07 Feb 2023 | 19 Jan 2023 |
| ST-01-1533-GW5 | SE241552B.002 | LB269177 | 10 Jan 2023 | 18 Jan 2023 | 07 Feb 2023 | 19 Jan 2023 | 07 Feb 2023 | 19 Jan 2023 |
| ST-01-1533-WD1 | SE241552B.003 | LB269177 | 10 Jan 2023 | 18 Jan 2023 | 07 Feb 2023 | 19 Jan 2023 | 07 Feb 2023 | 19 Jan 2023 |
| ST-01-1533-WD2 | SE241552B.004 | LB269177 | 10 Jan 2023 | 18 Jan 2023 | 07 Feb 2023 | 19 Jan 2023 | 07 Feb 2023 | 19 Jan 2023 |

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

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

No surrogates were required for this job.

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.

**Hexavalent Chromium in Soil UV/Vis** — Method: ME-(AU)-[ENV]AN075/AN201

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB269309.001 | Hexavalent Chromium, Cr6+ | mg/kg | 0.5 | <0.5 |

**Hexavalent Chromium in water by Discrete Analyser** — Method: ME-(AU)-[ENV]AN283

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB269177.001 | Hexavalent Chromium, Cr6+ | mg/L | 0.004 | <0.004 |

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

**Hexavalent Chromium in Soil UV/Vis** — **Method: ME-(AU)-[ENV]AN075/AN201**

| Original | Duplicate | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|
| SE241552B.007 | LB269309.004 | Hexavalent Chromium, Cr6+ | mg/kg | 0.5 | 0.7 | 0.5 | 111 | 29 |

**Hexavalent Chromium in water by Discrete Analyser** — **Method: ME-(AU)-[ENV]AN283**

| Original | Duplicate | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|
| SE241824.001 | LB269177.009 | Hexavalent Chromium, Cr6+ | mg/L | 0.004 | 0.001422 | 0.001311 | 200 | 0 |

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

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

**Hexavalent Chromium in Soil UV/Vis** — Method: ME-(AU)-[ENV]AN075/AN201

| Sample Number | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|
| LB269309.002 | Hexavalent Chromium, Cr6+ | mg/kg | 0.5 | 19 | 20 | 70 - 130 | 96 |

**Hexavalent Chromium in water by Discrete Analyser** — Method: ME-(AU)-[ENV]AN283

| Sample Number | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|
| LB269177.002 | Hexavalent Chromium, Cr6+ | mg/L | 0.004 | 0.049 | 0.05 | 80 - 120 | 98 |

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

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

**Hexavalent Chromium in water by Discrete Analyser** — **Method: ME-(AU)-[ENV]AN283**

| QC Sample | Sample Number | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|
| SE241552B.001 | LB269177.004 | Hexavalent Chromium, Cr6+ | mg/L | 0.004 | 0.053 | <0.004 | 0.05 | 101 |

# MATRIX SPIKE DUPLICATES

SE241552B R0

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The original result is the analyte concentration of the matrix spike. The Duplicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the

No matrix spike duplicates were required for this job.

Samples analysed as received.

Solid samples expressed on a dry weight basis.

QC criteria are subject to internal review according to the SGS QA/QC plan and may be provided on request or alternatively can be found here: https://www.sgs.com.au/~/media/Local/Australia/Documents/Technical Documents/MP-AU-ENV-QU-022 QA QC Plan.pdf

| | |
|---|---|
| * | NATA accreditation does not cover the performance of this service. |
| ** | Indicative data, theoretical holding time exceeded. |
| *** | Indicates that both * and ** apply. |
| - | Sample not analysed for this analyte. |
| IS | Insufficient sample for analysis. |
| LNR | Sample listed, but not received. |
| LOR | Limit of reporting. |
| QFH | QC result is above the upper tolerance. |
| QFL | QC result is below the lower tolerance. |
| ① | At least 2 of 3 surrogates are within acceptance criteria. |
| ② | RPD failed acceptance criteria due to sample heterogeneity. |
| ③ | Results less than 5 times LOR preclude acceptance criteria for RPD. |
| ④ | Recovery failed acceptance criteria due to matrix interference. |
| ⑤ | Recovery failed acceptance criteria due to the presence of significant concentration of analyte (i.e. the concentration of analyte exceeds the spike level). |
| ⑥ | LOR was raised due to sample matrix interference. |
| ⑦ | LOR was raised due to dilution of significantly high concentration of analyte in sample. |
| ⑧ | Reanalysis of sample in duplicate confirmed sample heterogeneity and inconsistency of results. |
| ⑨ | Recovery failed acceptance criteria due to sample heterogeneity. |
| ⑩ | LOR was raised due to high conductivity of the sample (required dilution). |
| † | Refer to relevant report comments for further information. |

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SGS

LIMS No: _____

# Request for Laboratory Services and Chain of Custody Form

SGS Australia, Unit 16, 33 Maddox Street, Alexandria, NSW 2015 Ph: +61 2 8594 0400 Fax: +61 2 8594 0499 Email: au.samplereceipt.sydney@sgs.com

**Laboratory Section**

Received Date: 18/1/23 Received By: [illegible] Cooling Method: ☐ Ice ☑ Icepack ☐ None Samples Intact: ☑ Yes ☐ No

Logged-in Date: _____ Time of Receipt: 12.14pm Cooler Sealed: ☐ Yes ☐ No ☐ N/A Temperature: ☐ Ambient ☐ Chilled

COD must pay via cheque or credit card before analysis is commenced. AMEX & DINERS cards incur a 5% surcharge

**INVOICE TO:**

Name: K2 Consulting Group

Company: K2 Consulting Group

Address: Suite 222 (Building B)

20 Lexington Drive, Bella Vista NSW 2153

Email: kannan@k2consultinggroup.com.au, admin@k2consultinggroup.com.au

Phone: 449669559 Fax:

Quote #: 292320

Attached Parameter List: ☐ Yes ☐ No

Replacement Sample Containers Required: ☐ Yes ☐ No

Results Required By: 2 Day TAT Urgent TA requires lab approval

Notes: Please provide results by lunchtime Friday (20/01/2023) (Mathew said it can be provided by then)

| Client Information | PO No.: | Project No.: ST-01-1533 (515 Crookwell Road, Kingsdale) |
|---|---|---|

**Company Name:** K2 Consulting Group

**Contact Name:** Kannan Kaliappan

**Address:** Suite 222 (Building B), 20 Lexington Drive, Bella Vista NSW 2153

**Phone Number:** 449669559 **After Hours Phone Number:**

**Fax Number:** **Email:** kannan@k2consultinggroup.com.au; sirish@k2consultinggroup.com.au

Note: Results will be sent via email to an unlimited number of addresses for no additional fee. In the absence of email, fax is available upon request.

Indicate results format (please check one): ☐ Email ☐ Fax

**SAMPLE INFORMATION**

| Lab Sample ID | Sample Identifier | Date Sampled | Lab reference | Matrix: Soil Water Other | # of Bottles | Analysis Requested: Chromium VI |
|---|---|---|---|---|---|---|
| 1 | ST-01-1533-GW4 | 10/01/2023 | SE241552 | Water | | X |
| 2 | ST-01-1533-GW5 | 10/01/2023 | SE241552 | Water | | X |
| 3 | ST-01-1533-WD1 | 10/01/2023 | SE241552 | Water | | X |
| 4 | ST-01-1533-WD2 | 10/01/2023 | SE241552 | Water | | X |
| 7 | ST-01-1533-WD1 (sediment) | 10/01/2023 | SE241552 | Soil | | X |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**Sampled By:** Sirish Baniya **Date:** 10/01/2023

**Relinquished By:** Sirish Baniya **Date:** 11/01/2023 **Time:** 3pm

SGS EHS Alexandria Laboratory

SE241552B COC

Received: 18 – Jan – 2023

# ANALYTICAL REPORT

Accreditation No. 2562

| CLIENT DETAILS | | LABORATORY DETAILS | |
|---|---|---|---|
| Contact | Kannan Kaliappan | Manager | Huong Crawford |
| Client | K2 CONSULTING GROUP | Laboratory | SGS Alexandria Environmental |
| Address | SUITE 222, 20B LEXINGTON DRIVE<br>BELLA VISTA NSW 2153 | Address | Unit 16, 33 Maddox St<br>Alexandria NSW 2015 |
| Telephone | 61 8 00 523 000 | Telephone | +61 2 8594 0400 |
| Facsimile | (Not specified) | Facsimile | +61 2 8594 0499 |
| Email | kannan@k2consultinggroup.com.au | Email | au.environmental.sydney@sgs.com |
| Project | **ST-01-1533(515 Crookwell Road, Kingsdale** | SGS Reference | **SE241552B R0** |
| Order Number | **ST-01-1533** | Date Received | 18 Jan 2023 |
| Samples | 7 | Date Reported | 20 Jan 2023 |

COMMENTS

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

SIGNATORIES

Dong LIANG
Metals/Inorganics Team Leader

| Parameter | Units | LOR | Sample Number<br>Sample Matrix<br>Sample Date<br>Sample Name | SE241552B.001<br>Water<br>10 Jan 2023<br>ST-01-1533-GW4 | SE241552B.002<br>Water<br>10 Jan 2023<br>ST-01-1533-GW5 | SE241552B.003<br>Water<br>10 Jan 2023<br>ST-01-1533-WD1 | SE241552B.004<br>Water<br>10 Jan 2023<br>ST-01-1533-WD2 |
|---|---|---|---|---|---|---|---|
| **Hexavalent Chromium in water by Discrete Analyser Method: AN283 Tested: 19/1/2023** | | | | | | | |
| Hexavalent Chromium, Cr6+ | mg/L | 0.004 | | <0.004 | **0.014** | <0.004 | <0.004 |
| **Hexavalent Chromium in Soil UV/Vis Method: AN075/AN201 Tested: 20/1/2023** | | | | | | | |
| Hexavalent Chromium, Cr6+ | mg/kg | 0.5 | | - | - | - | - |

| Parameter | Units | LOR | Sample Number<br>Sample Matrix<br>Sample Date<br>Sample Name<br>SE241552B.005<br>Water<br>10 Jan 2023<br>Trip Spike | SE241552B.006<br>Water<br>10 Jan 2023<br>Trip Blank | SE241552B.007<br>Soil<br>10 Jan 2023<br>ST-01-1533-WD1( Sediment) |
|---|---|---|---|---|---|
| **Hexavalent Chromium in water by Discrete Analyser Method: AN283 Tested: 20/1/2023** | | | | | |
| Hexavalent Chromium, Cr6+ | mg/L | 0.004 | - | - | - |
| **Hexavalent Chromium in Soil UV/Vis Method: AN075/AN201 Tested: 20/1/2023** | | | | | |
| Hexavalent Chromium, Cr6+ | mg/kg | 0.5 | - | - | **0.7** |

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

**Hexavalent Chromium in Soil UV/Vis** **Method: ME-(AU)-[ENV]AN075/AN201**

| Parameter | QC Reference | Units | LOR | MB | DUP %RPD | LCS %Recovery |
|---|---|---|---|---|---|---|
| Hexavalent Chromium, Cr6+ | LB269309 | mg/kg | 0.5 | <0.5 | 29% | 96% |

**Hexavalent Chromium in water by Discrete Analyser** **Method: ME-(AU)-[ENV]AN283**

| Parameter | QC Reference | Units | LOR | MB | DUP %RPD | LCS %Recovery | MS %Recovery |
|---|---|---|---|---|---|---|---|
| Hexavalent Chromium, Cr6+ | LB269177 | mg/L | 0.004 | <0.004 | 0% | 98% | 101% |

| METHOD | METHODOLOGY SUMMARY |
| --- | --- |
| AN075 | This method uses an alkaline digestion to solubilise both water-soluble and water-insoluble forms of hexavalent chromium in solids. The solution is then pH adjusted and the hexavalent chromium concentration in solution determined colourimetrically. |
| AN201 | Cr6+ is determined colourimetrically by reaction with diphenylcarbazide in acid solution. A red-violet colour of unknown composition is produced. |
| AN283 | Hexavalent Chromium via DA: Soluble hexavalent chromium forms a red/violet colour with diphenylcarbazide in acidic solution. This procedure is very sensitive and nearly specific for Cr6+. If total chromium is also measured the trivalent form of chromium Cr3+ can be calculated from the difference (Total Cr - Cr6+). Reference APHA3500CrB. |

FOOTNOTES

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

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

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

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

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

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

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

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

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

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# STATEMENT OF QA/QC PERFORMANCE

**SE241552B R0**

## CLIENT DETAILS

| | |
|---|---|
| Contact | Kannan Kaliappan |
| Client | K2 CONSULTING GROUP |
| Address | SUITE 222, 20B LEXINGTON DRIVE<br>BELLA VISTA NSW 2153 |
| Telephone | 61 8 00 523 000 |
| Facsimile | (Not specified) |
| Email | kannan@k2consultinggroup.com.au |
| Project | **ST-01-1533(515 Crookwell Road, Kingsdale** |
| Order Number | **ST-01-1533** |
| Samples | 7 |

## LABORATORY DETAILS

| | |
|---|---|
| Manager | Huong Crawford |
| Laboratory | SGS Alexandria Environmental |
| Address | Unit 16, 33 Maddox St<br>Alexandria NSW 2015 |
| Telephone | +61 2 8594 0400 |
| Facsimile | +61 2 8594 0499 |
| Email | au.environmental.sydney@sgs.com |
| SGS Reference | **SE241552B R0** |
| Date Received | 18 Jan 2023 |
| Date Reported | 20 Jan 2023 |

## 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 (within the SGS Alexandria Environmental laboratory).

## SAMPLE SUMMARY

| | | | |
|---|---|---|---|
| Sample counts by matrix | 4 Water, 1 Soil | Type of documentation received | COC |
| Date documentation received | 18/1/2023@12:11pn | Samples received in good order | Yes |
| Samples received without headspace | Yes | Sample temperature upon receipt | 10.0°C |
| Sample container provider | SGS | Turnaround time requested | Two Days |
| Samples received in correct containers | Yes | Sufficient sample for analysis | Yes |
| Sample cooling method | Ice | Samples clearly labelled | Yes |
| Complete documentation received | Yes | | |

# HOLDING TIME SUMMARY

SE241552B 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

**Hexavalent Chromium in Soil UV/Vis** — Method: ME-(AU)-[ENV]AN075/AN201

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| ST-01-1533-WD1(Sediment | SE241552B.007 | LB269309 | 10 Jan 2023 | 18 Jan 2023 | 07 Feb 2023 | 20 Jan 2023 | 27 Jan 2023 | 20 Jan 2023 |

**Hexavalent Chromium in water by Discrete Analyser** — Method: ME-(AU)-[ENV]AN283

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| ST-01-1533-GW4 | SE241552B.001 | LB269177 | 10 Jan 2023 | 18 Jan 2023 | 07 Feb 2023 | 19 Jan 2023 | 07 Feb 2023 | 19 Jan 2023 |
| ST-01-1533-GW5 | SE241552B.002 | LB269177 | 10 Jan 2023 | 18 Jan 2023 | 07 Feb 2023 | 19 Jan 2023 | 07 Feb 2023 | 19 Jan 2023 |
| ST-01-1533-WD1 | SE241552B.003 | LB269177 | 10 Jan 2023 | 18 Jan 2023 | 07 Feb 2023 | 19 Jan 2023 | 07 Feb 2023 | 19 Jan 2023 |
| ST-01-1533-WD2 | SE241552B.004 | LB269177 | 10 Jan 2023 | 18 Jan 2023 | 07 Feb 2023 | 19 Jan 2023 | 07 Feb 2023 | 19 Jan 2023 |

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

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

No surrogates were required for this job.

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.

**Hexavalent Chromium in Soil UV/Vis** — Method: ME-(AU)-[ENV]AN075/AN201

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB269309.001 | Hexavalent Chromium, Cr6+ | mg/kg | 0.5 | <0.5 |

**Hexavalent Chromium in water by Discrete Analyser** — Method: ME-(AU)-[ENV]AN283

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB269177.001 | Hexavalent Chromium, Cr6+ | mg/L | 0.004 | <0.004 |

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

**Hexavalent Chromium in Soil UV/Vis** — **Method: ME-(AU)-[ENV]AN075/AN201**

| Original | Duplicate | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|
| SE241552B.007 | LB269309.004 | Hexavalent Chromium, Cr6+ | mg/kg | 0.5 | 0.7 | 0.5 | 111 | 29 |

**Hexavalent Chromium in water by Discrete Analyser** — **Method: ME-(AU)-[ENV]AN283**

| Original | Duplicate | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|
| SE241824.001 | LB269177.009 | Hexavalent Chromium, Cr6+ | mg/L | 0.004 | 0.001422 | 0.001311 | 200 | 0 |

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

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

**Hexavalent Chromium in Soil UV/Vis** — Method: ME-(AU)-[ENV]AN075/AN201

| Sample Number | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|
| LB269309.002 | Hexavalent Chromium, Cr6+ | mg/kg | 0.5 | 19 | 20 | 70 - 130 | 96 |

**Hexavalent Chromium in water by Discrete Analyser** — Method: ME-(AU)-[ENV]AN283

| Sample Number | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|
| LB269177.002 | Hexavalent Chromium, Cr6+ | mg/L | 0.004 | 0.049 | 0.05 | 80 - 120 | 98 |

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

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

**Hexavalent Chromium in water by Discrete Analyser** — **Method: ME-(AU)-[ENV]AN283**

| QC Sample | Sample Number | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|
| SE241552B.001 | LB269177.004 | Hexavalent Chromium, Cr6+ | mg/L | 0.004 | 0.053 | <0.004 | 0.05 | 101 |

# MATRIX SPIKE DUPLICATES

SE241552B R0

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The original result is the analyte concentration of the matrix spike. The Duplicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the

No matrix spike duplicates were required for this job.

Samples analysed as received.

Solid samples expressed on a dry weight basis.

QC criteria are subject to internal review according to the SGS QA/QC plan and may be provided on request or alternatively can be found here: https://www.sgs.com.au/~/media/Local/Australia/Documents/Technical Documents/MP-AU-ENV-QU-022 QA QC Plan.pdf

| | |
|---|---|
| * | NATA accreditation does not cover the performance of this service. |
| ** | Indicative data, theoretical holding time exceeded. |
| *** | Indicates that both * and ** apply. |
| - | Sample not analysed for this analyte. |
| IS | Insufficient sample for analysis. |
| LNR | Sample listed, but not received. |
| LOR | Limit of reporting. |
| QFH | QC result is above the upper tolerance. |
| QFL | QC result is below the lower tolerance. |
| ① | At least 2 of 3 surrogates are within acceptance criteria. |
| ② | RPD failed acceptance criteria due to sample heterogeneity. |
| ③ | Results less than 5 times LOR preclude acceptance criteria for RPD. |
| ④ | Recovery failed acceptance criteria due to matrix interference. |
| ⑤ | Recovery failed acceptance criteria due to the presence of significant concentration of analyte (i.e. the concentration of analyte exceeds the spike level). |
| ⑥ | LOR was raised due to sample matrix interference. |
| ⑦ | LOR was raised due to dilution of significantly high concentration of analyte in sample. |
| ⑧ | Reanalysis of sample in duplicate confirmed sample heterogeneity and inconsistency of results. |
| ⑨ | Recovery failed acceptance criteria due to sample heterogeneity. |
| ⑩ | LOR was raised due to high conductivity of the sample (required dilution). |
| † | Refer to relevant report comments for further information. |

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SGS

LIMS No: _____

# Request for Laboratory Services and Chain of Custody Form

SGS Australia, Unit 16, 33 Maddox Street, Alexandria, NSW 2015 Ph: +61 2 8594 0400 Fax: +61 2 8594 0499 Email: au.samplereceipt.sydney@sgs.com

**Laboratory Section**

Received Date: 18/1/23 Received By: [illegible] Cooling Method: ☐ Ice ☑ Icepack ☐ None Samples Intact: ☑ Yes ☐ No

Logged-in Date: _____ Time of Receipt: 12.14pm Cooler Sealed: ☐ Yes ☐ No ☐ N/A Temperature: ☐ Ambient ☐ Chilled

COD must pay via cheque or credit card before analysis is commenced. AMEX & DINERS cards incur a 5% surcharge

**INVOICE TO:**

Name: K2 Consulting Group

Company: K2 Consulting Group

Address: Suite 222 (Building B)

20 Lexington Drive, Bella Vista NSW 2153

Email: kannan@k2consultinggroup.com.au, admin@k2consultinggroup.com.au

Phone: 449669559 Fax:

Quote #: 292320

Attached Parameter List: ☐ Yes ☐ No

Replacement Sample Containers Required: ☐ Yes ☐ No

Results Required By: 2 Day TAT Urgent TA requires lab approval

Notes: Please provide results by lunchtime Friday (20/01/2023) (Mathew said it can be provided by then)

| Client Information | PO No.: | Project No.: ST-01-1533 (515 Crookwell Road, Kingsdale) |
|---|---|---|

**Company Name:** K2 Consulting Group

**Contact Name:** Kannan Kaliappan

**Address:** Suite 222 (Building B), 20 Lexington Drive, Bella Vista NSW 2153

**Phone Number:** 449669559 **After Hours Phone Number:**

**Fax Number:** **Email:** kannan@k2consultinggroup.com.au; sirish@k2consultinggroup.com.au

Note: Results will be sent via email to an unlimited number of addresses for no additional fee. In the absence of email, fax is available upon request.

Indicate results format (please check one): ☐ Email ☐ Fax

**SAMPLE INFORMATION**

| Lab Sample ID | Sample Identifier | Date Sampled | Lab reference | Matrix: Soil Water Other | # of Bottles | Analysis Requested: Chromium VI |
|---|---|---|---|---|---|---|
| 1 | ST-01-1533-GW4 | 10/01/2023 | SE241552 | Water | | X |
| 2 | ST-01-1533-GW5 | 10/01/2023 | SE241552 | Water | | X |
| 3 | ST-01-1533-WD1 | 10/01/2023 | SE241552 | Water | | X |
| 4 | ST-01-1533-WD2 | 10/01/2023 | SE241552 | Water | | X |
| 7 | ST-01-1533-WD1 (sediment) | 10/01/2023 | SE241552 | Soil | | X |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**Sampled By:** Sirish Baniya **Date:** 10/01/2023

**Relinquished By:** Sirish Baniya **Date:** 11/01/2023 **Time:** 3pm

SGS EHS Alexandria Laboratory

SE241552B COC

Received: 18 – Jan – 2023

# ANALYTICAL REPORT

Accreditation No. 2562

## CLIENT DETAILS

| | |
|---|---|
| Contact | Kannan Kaliappan |
| Client | K2 CONSULTING GROUP |
| Address | SUITE 222, 20B LEXINGTON DRIVE<br>BELLA VISTA NSW 2153 |
| Telephone | 61 8 00 523 000 |
| Facsimile | (Not specified) |
| Email | kannan@k2consultinggroup.com.au |
| Project | **ST-01-1533 (515 Crookwell Road, Kingsdal** |
| Order Number | **ST-01-1533** |
| Samples | 101 |

## LABORATORY DETAILS

| | |
|---|---|
| Manager | Huong Crawford |
| Laboratory | SGS Alexandria Environmental |
| Address | Unit 16, 33 Maddox St<br>Alexandria NSW 2015 |
| Telephone | +61 2 8594 0400 |
| Facsimile | +61 2 8594 0499 |
| Email | au.environmental.sydney@sgs.com |
| SGS Reference | **SE239041A R0** |
| Date Received | 28/11/2022 |
| Date Reported | 6/12/2022 |

## COMMENTS

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

% Clay subcontracted to SGS Cairns, 2/58 Comport St, Portsmith QLD 4870, NATA Accreditation Number: 2562, Site Number: 3146. Report No. CE163216.

## SIGNATORIES

**Dong LIANG**
Metals/Inorganics Team Leader

**Shane MCDERMOTT**
Inorganic/Metals Chemist

## pH in soil (1:5) [AN101] Tested: 5/12/2022

| PARAMETER | UOM | LOR | ST-01-1533-BH19(0.( m) SOIL - 7/11/2022 SE239041A.100 | ST-01-1533-BH74(0.5 m) SOIL - 8/11/2022 SE239041A.101 |
|---|---|---|---|---|
| pH | pH Units | 0.1 | **9.0** | **6.0** |

## Exchangeable Cations and Cation Exchange Capacity (CEC/ESP/SAR) [AN122] Tested: 5/12/2022

| PARAMETER | UOM | LOR | ST-01-1533-BH19(0.( m) SOIL - 7/11/2022 SE239041A.100 | ST-01-1533-BH74(0.5 m) SOIL - 8/11/2022 SE239041A.101 |
|---|---|---|---|---|
| Exchangeable Calcium, Ca | mg/kg | 2 | **1400** | **560** |
| Exchangeable Calcium, Ca | meq/100g | 0.01 | **7.1** | **2.8** |
| Exchangeable Calcium Percentage* | % | 0.1 | **57.7** | **30.0** |
| Exchangeable Potassium, K | mg/kg | 2 | **17** | **130** |
| Exchangeable Potassium, K | meq/100g | 0.01 | **0.04** | **0.33** |
| Exchangeable Potassium Percentage* | % | 0.1 | **0.4** | **3.6** |
| Exchangeable Magnesium, Mg | mg/kg | 2 | **600** | **700** |
| Exchangeable Magnesium, Mg | meq/100g | 0.02 | **4.9** | **5.8** |
| Exchangeable Magnesium Percentage* | % | 0.1 | **40.0** | **62.5** |
| Exchangeable Sodium, Na | mg/kg | 2 | **55** | **84** |
| Exchangeable Sodium, Na | meq/100g | 0.01 | **0.24** | **0.36** |
| Exchangeable Sodium Percentage* | % | 0.1 | **2.0** | **3.9** |
| Cation Exchange Capacity | meq/100g | 0.02 | **12** | **9.2** |

## Moisture Content [AN002] Tested: 5/12/2022

| PARAMETER | UOM | LOR | ST-01-1533-BH19(0.( m) SOIL - 7/11/2022 SE239041A.100 | ST-01-1533-BH74(0.5 m) SOIL - 8/11/2022 SE239041A.101 |
|---|---|---|---|---|
| % Moisture | %w/w | 1 | **5.3** | **21** |

## Particle sizing of soils by sieving [AN005] Tested: 6/12/2022

| PARAMETER | UOM | LOR | ST-01-1533-BH19(0.( m) SOIL - 7/11/2022 SE239041A.100 | ST-01-1533-BH74(0.5 m) SOIL - 8/11/2022 SE239041A.101 |
|---|---|---|---|---|
| Passing 75µm* | %w/w | 1 | **5** | **80** |
| Retained 75µm* | %w/w | 1 | **95** | **20** |

## Particle sizing of soils <75µm by hydrometer [AN005] Tested: 6/12/2022

| PARAMETER | UOM | LOR | ST-01-1533-BH19(0.( m) SOIL - 7/11/2022 SE239041A.100 | ST-01-1533-BH74(0.5 m) SOIL - 8/11/2022 SE239041A.101 |
|---|---|---|---|---|
| Clay (<0.002mm)* | %w/w | 0.1 | **2.0** | **40** |

| METHOD | METHODOLOGY SUMMARY |
|---|---|
| AN002 | The test is carried out by drying (at either 40°C or 105°C) a known mass of sample in a weighed evaporating basin. After fully dry the sample is re-weighed. Samples such as sludge and sediment having high percentages of moisture will take some time in a drying oven for complete removal of water. |
| AN005 | The particle size distribution of a soil is determined by wet sieving, using a maximum of 900 mL of deionised water to sieve all fractions down to 75 µm. Referenced to AS1289.3.6.1 and AS1141.11. |
| AN005 | Following wet sieving of the sample,( particles smaller than 75 µm) a dispersing solution is added and a hydrometer is used to measure sedimentation. Soil density is determined and the percentage of each size fraction calculated. Referenced to AS1289.3.6.3. |
| AN101 | pH in Soil Sludge Sediment and Water: pH is measured electrometrically using a combination electrode and is calibrated against 3 buffers purchased commercially. For soils, sediments and sludges, an extract with water (or 0.01M CaCl2) is made at a ratio of 1:5 and the pH determined and reported on the extract. Reference APHA 4500-H+. |
| AN122 | Exchangeable Cations, CEC and ESP: Soil sample is extracted in 1M Ammonium Acetate at pH=7 (or 1M Ammonium Chloride at pH=7) with cations (Na, K, Ca & Mg) then determined by ICP OES/ICP MS and reported as Exchangeable Cations. For saline soils, these results can be corrected for water soluble cations and reported as Exchangeable cations in meq/100g or soil can be pre-treated (aqueous ethanol/aqueous glycerol) prior to extraction. Cation Exchange Capacity (CEC) is the sum of the exchangeable cations in meq/100g. |
| AN122 | The Exchangeable Sodium Percentage (ESP) is calculated as the exchangeable sodium divided by the CEC (all in meq/100g) times 100.<br>ESP can be used to categorise the sodicity of the soil as below:<br><br>ESP < 6% non-sodic<br>ESP 6-15% sodic<br>ESP >15% strongly sodic<br><br>Method is referenced to Rayment and Lyons, 2011, sections 15D3 and 15N1.- |

FOOTNOTES

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

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

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

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

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

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

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

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

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

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# STATEMENT OF QA/QC PERFORMANCE

**SE239041A R0**

## CLIENT DETAILS

| | |
|---|---|
| Contact | Kannan Kaliappan |
| Client | K2 CONSULTING GROUP |
| Address | SUITE 222, 20B LEXINGTON DRIVE<br>BELLA VISTA NSW 2153 |
| Telephone | 61 8 00 523 000 |
| Facsimile | (Not specified) |
| Email | kannan@k2consultinggroup.com.au |
| Project | **ST-01-1533 (515 Crookwell Road, Kingsdal** |
| Order Number | **ST-01-1533** |
| Samples | 101 |

## LABORATORY DETAILS

| | |
|---|---|
| Manager | Huong Crawford |
| Laboratory | SGS Alexandria Environmental |
| Address | Unit 16, 33 Maddox St<br>Alexandria NSW 2015 |
| Telephone | +61 2 8594 0400 |
| Facsimile | +61 2 8594 0499 |
| Email | au.environmental.sydney@sgs.com |
| SGS Reference | **SE239041A R0** |
| Date Received | 28 Nov 2022 |
| Date Reported | 06 Dec 2022 |

## COMMENTS

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

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

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

| | | |
|---|---|---|
| Extraction Date | Moisture Content | 2 items |
| | pH in soil (1:5) | 2 items |

## SAMPLE SUMMARY

| | | | |
|---|---|---|---|
| Samples clearly labelled | Yes | Complete documentation received | Yes |
| Sample container provider | SGS | Sample cooling method | Ice Bricks |
| Samples received in correct containers | Yes | Sample counts by matrix | 2 Soil |
| Date documentation received | 28/11/2022@1:29pn | Type of documentation received | COC |
| Samples received in good order | Yes | Samples received without headspace | Yes |
| Sample temperature upon receipt | 14.6C | Sufficient sample for analysis | Yes |
| Turnaround time requested | Standard | | |

# HOLDING TIME SUMMARY

SE239041A R0

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

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

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

**Exchangeable Cations and Cation Exchange Capacity (CEC/ESP/SAR)** — Method: ME-(AU)-[ENV]AN122

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| ST-01-1533-BH19(0.6m) | SE239041A.100 | LB265599 | 07 Nov 2022 | 28 Nov 2022 | 05 Dec 2022 | 05 Dec 2022 | 05 Dec 2022 | 05 Dec 2022 |
| ST-01-1533-BH74(0.5m) | SE239041A.101 | LB265599 | 08 Nov 2022 | 28 Nov 2022 | 06 Dec 2022 | 05 Dec 2022 | 06 Dec 2022 | 05 Dec 2022 |

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| ST-01-1533-BH19(0.6m) | SE239041A.100 | LB265644 | 07 Nov 2022 | 28 Nov 2022 | 21 Nov 2022 | 05 Dec 2022† | 10 Dec 2022 | 05 Dec 2022 |
| ST-01-1533-BH74(0.5m) | SE239041A.101 | LB265644 | 08 Nov 2022 | 28 Nov 2022 | 22 Nov 2022 | 05 Dec 2022† | 10 Dec 2022 | 05 Dec 2022 |

**pH in soil (1:5)** — Method: ME-(AU)-[ENV]AN101

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| ST-01-1533-BH19(0.6m) | SE239041A.100 | LB265683 | 07 Nov 2022 | 28 Nov 2022 | 14 Nov 2022 | 05 Dec 2022† | 06 Dec 2022 | 05 Dec 2022 |
| ST-01-1533-BH74(0.5m) | SE239041A.101 | LB265683 | 08 Nov 2022 | 28 Nov 2022 | 15 Nov 2022 | 05 Dec 2022† | 06 Dec 2022 | 05 Dec 2022 |

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

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

No surrogates were required for this job.

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

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

**Exchangeable Cations and Cation Exchange Capacity (CEC/ESP/SAR)** — **Method: ME-(AU)-[ENV]AN122**

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB265599.001 | Exchangeable Sodium, Na | mg/kg | 2 | 0.4399 |
| | Exchangeable Potassium, K | mg/kg | 2 | -0.2399 |
| | Exchangeable Calcium, Ca | mg/kg | 2 | -1.3979 |
| | Exchangeable Magnesium, Mg | mg/kg | 2 | -0.0786 |

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

**pH in soil (1:5)** **Method: ME-(AU)-[ENV]AN101**

| Original | Duplicate | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|
| SE239286A.013 | LB265683.007 | pH | pH Units | 0.1 | 6.9 | 6.8 | 31 | 0 |

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

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

**Exchangeable Cations and Cation Exchange Capacity (CEC/ESP/SAR)** — Method: ME-(AU)-[ENV]AN122

| Sample Number | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|
| LB265599.002 | Exchangeable Sodium, Na | meq/100g | 0.01 | 0.18 | 0.194 | 80 - 120 | 90 |
| | Exchangeable Potassium, K | meq/100g | 0.01 | 0.51 | 0.63 | 80 - 120 | 80 |
| | Exchangeable Calcium, Ca | meq/100g | 0.01 | 5.9 | 6.3 | 80 - 120 | 94 |
| | Exchangeable Magnesium, Mg | meq/100g | 0.02 | 0.95 | 1.11 | 80 - 120 | 86 |

**pH in soil (1:5)** — Method: ME-(AU)-[ENV]AN101

| Sample Number | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|
| LB265683.003 | pH | pH Units | 0.1 | 7.4 | 7.415 | 98 - 102 | 100 |

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

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

No matrix spikes were required for this job.

# MATRIX SPIKE DUPLICATES

SE239041A R0

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The original result is the analyte concentration of the matrix spike. The Duplicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the

No matrix spike duplicates were required for this job.

Samples analysed as received.

Solid samples expressed on a dry weight basis.

QC criteria are subject to internal review according to the SGS QA/QC plan and may be provided on request or alternatively can be found here: https://www.sgs.com.au/~/media/Local/Australia/Documents/Technical Documents/MP-AU-ENV-QU-022 QA QC Plan.pdf

| | |
|---|---|
| * | NATA accreditation does not cover the performance of this service. |
| ** | Indicative data, theoretical holding time exceeded. |
| *** | Indicates that both * and ** apply. |
| - | Sample not analysed for this analyte. |
| IS | Insufficient sample for analysis. |
| LNR | Sample listed, but not received. |
| LOR | Limit of reporting. |
| QFH | QC result is above the upper tolerance. |
| QFL | QC result is below the lower tolerance. |
| ① | At least 2 of 3 surrogates are within acceptance criteria. |
| ② | RPD failed acceptance criteria due to sample heterogeneity. |
| ③ | Results less than 5 times LOR preclude acceptance criteria for RPD. |
| ④ | Recovery failed acceptance criteria due to matrix interference. |
| ⑤ | Recovery failed acceptance criteria due to the presence of significant concentration of analyte (i.e. the concentration of analyte exceeds the spike level). |
| ⑥ | LOR was raised due to sample matrix interference. |
| ⑦ | LOR was raised due to dilution of significantly high concentration of analyte in sample. |
| ⑧ | Reanalysis of sample in duplicate confirmed sample heterogeneity and inconsistency of results. |
| ⑨ | Recovery failed acceptance criteria due to sample heterogeneity. |
| ⑩ | LOR was raised due to high conductivity of the sample (required dilution). |
| † | Refer to relevant report comments for further information. |

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# CHAIN OF CUSTODY & ANALYSIS REQUEST

Page____of ____


**SGS Environmental Services**
**Unit 16, 33 Maddox Street**
**Alexandria NSW 2015**
**Telephone No: (02) 85940400**
**Facsimile No: (02) 85940499**

**Email:** au.samplereceipt.sydney@sgs.com


| | | | |
|---|---|---|---|
| Company Name: | K2 Consulting Group | Project Name/No: | ST-01-1533 (515 Crookwell Road, Kingsdale NSW 2580) |
| Address: | Suite 222 (Building B) | Purchase Order No: | |
| | 20 Lexington Drive, Bella Vista NSW 2153 | Results Required By: | 5 Days TAT |
| | | Telephone: | 0449 669 559 |
| Contact Name: | Kannan Kaliappan | Facsimile: | |
| | | Email Results: | kannan@k2consultinggroup.com.au; sirish@k2consultinggroup.com.au |

| Client Sample ID | Date Sampled | Lab Sample ID | pH | %Clay | Cation Exchange Capacity (CEC) |
|---|---|---|---|---|---|
| ST-01-1533-BH19 (0.6m) | 07/11/2022 | | X | X | X |
| ST-01-1533-BH74 (0.5m) | 08/11/2022 | | X | X | X |
| | | | | | |
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|---|---|---|---|---|
| Relinquished By: Sirish Baniya | Date/Time:11/11/2022 | Received By: | | 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: | | | |

# ANALYTICAL REPORT

Accreditation No. 2562

| CLIENT DETAILS | | LABORATORY DETAILS | |
|---|---|---|---|
| Contact | Kannan Kaliappan | Manager | Huong Crawford |
| Client | K2 CONSULTING GROUP | Laboratory | SGS Alexandria Environmental |
| Address | SUITE 222, 20B LEXINGTON DRIVE<br>BELLA VISTA NSW 2153 | Address | Unit 16, 33 Maddox St<br>Alexandria NSW 2015 |
| Telephone | 61 8 00 523 000 | Telephone | +61 2 8594 0400 |
| Facsimile | (Not specified) | Facsimile | +61 2 8594 0499 |
| Email | kannan@k2consultinggroup.com.au | Email | au.environmental.sydney@sgs.com |
| Project | **ST-01-1533(515 Crookwell Road, Kingsdale** | SGS Reference | **SE241552A R0** |
| Order Number | **ST-01-1533** | Date Received | 12 Jan 2023 |
| Samples | 7 | Date Reported | 17 Jan 2023 |

COMMENTS

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

OC/PCB - TRH-Detection limit(s) raised due to high moisture content of the sample.

SIGNATORIES

Akheeqar BENIAMEEN
Chemist

Dong LIANG
Metals/Inorganics Team Leader

Shane MCDERMOTT
Inorganic/Metals Chemist

Teresa NGUYEN
Organic Chemist

| Parameter | Units | LOR | Sample Number: SE241552A.001<br>Sample Matrix: Water<br>Sample Date: 10 Jan 2023<br>Sample Name: ST-01-1533-GW4 | SE241552A.002<br>Water<br>10 Jan 2023<br>ST-01-1533-GW5 | SE241552A.003<br>Water<br>10 Jan 2023<br>ST-01-1533-WD1 | SE241552A.004<br>Water<br>10 Jan 2023<br>ST-01-1533-WD2 |
|---|---|---|---|---|---|---|
| **VOC's in Soil Method: AN433 Tested: 17/1/2023** | | | | | | |
| Monocyclic Aromatic Hydrocarbons | | | | | | |
| Benzene | mg/kg | 0.1 | - | - | - | - |
| Toluene | mg/kg | 0.1 | - | - | - | - |
| Ethylbenzene | mg/kg | 0.1 | - | - | - | - |
| m/p-xylene | mg/kg | 0.2 | - | - | - | - |
| o-xylene | mg/kg | 0.1 | - | - | - | - |
| Polycyclic VOCs | | | | | | |
| Naphthalene (VOC)* | mg/kg | 0.1 | - | - | - | - |
| Surrogates | | | | | | |
| d4-1,2-dichloroethane (Surrogate) | % | - | - | - | - | - |
| d8-toluene (Surrogate) | % | - | - | - | - | - |
| Bromofluorobenzene (Surrogate) | % | - | - | - | - | - |
| Totals | | | | | | |
| Total BTEX* | mg/kg | 0.6 | - | - | - | - |
| Total Xylenes* | mg/kg | 0.3 | - | - | - | - |
| **Volatile Petroleum Hydrocarbons in Soil Method: AN433 Tested: 17/1/2023** | | | | | | |
| TRH C6-C10 | mg/kg | 25 | - | - | - | - |
| TRH C6-C9 | mg/kg | 20 | - | - | - | - |
| Surrogates | | | | | | |
| d4-1,2-dichloroethane (Surrogate) | % | - | - | - | - | - |
| d8-toluene (Surrogate) | % | - | - | - | - | - |
| Bromofluorobenzene (Surrogate) | % | - | - | - | - | - |
| VPH F Bands | | | | | | |
| Benzene (F0) | mg/kg | 0.1 | - | - | - | - |
| TRH C6-C10 minus BTEX (F1) | mg/kg | 25 | - | - | - | - |

| Parameter | Units | LOR | Sample Number<br>Sample Matrix<br>Sample Date<br>Sample Name<br>SE241552A.001<br>Water<br>10 Jan 2023<br>ST-01-1533-GW4 | SE241552A.002<br>Water<br>10 Jan 2023<br>ST-01-1533-GW5 | SE241552A.003<br>Water<br>10 Jan 2023<br>ST-01-1533-WD1 | SE241552A.004<br>Water<br>10 Jan 2023<br>ST-01-1533-WD2 |
|---|---|---|---|---|---|---|
| **TRH (Total Recoverable Hydrocarbons) in Soil Method: AN403 Tested: 17/1/2023** | | | | | | |
| TRH C10-C14 | mg/kg | 20 | - | - | - | - |
| TRH C15-C28 | mg/kg | 45 | - | - | - | - |
| TRH C29-C36 | mg/kg | 45 | - | - | - | - |
| TRH C37-C40 | mg/kg | 100 | - | - | - | - |
| TRH C10-C36 Total | mg/kg | 110 | - | - | - | - |
| TRH >C10-C40 Total (F bands) | mg/kg | 210 | - | - | - | - |
| TRH F Bands | | | | | | |
| TRH >C10-C16 | mg/kg | 25 | - | - | - | - |
| TRH >C10-C16 - Naphthalene (F2) | mg/kg | 25 | - | - | - | - |
| TRH >C16-C34 (F3) | mg/kg | 90 | - | - | - | - |
| TRH >C34-C40 (F4) | mg/kg | 120 | - | - | - | - |
| **PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420 Tested: 17/1/2023** | | | | | | |
| Naphthalene | mg/kg | 0.1 | - | - | - | - |
| 2-methylnaphthalene | mg/kg | 0.1 | - | - | - | - |
| 1-methylnaphthalene | mg/kg | 0.1 | - | - | - | - |
| Acenaphthylene | mg/kg | 0.1 | - | - | - | - |
| Acenaphthene | mg/kg | 0.1 | - | - | - | - |
| Fluorene | mg/kg | 0.1 | - | - | - | - |
| Phenanthrene | mg/kg | 0.1 | - | - | - | - |
| Anthracene | mg/kg | 0.1 | - | - | - | - |
| Fluoranthene | mg/kg | 0.1 | - | - | - | - |
| Pyrene | mg/kg | 0.1 | - | - | - | - |
| Benzo(a)anthracene | mg/kg | 0.1 | - | - | - | - |
| Chrysene | mg/kg | 0.1 | - | - | - | - |
| Benzo(b&j)fluoranthene | mg/kg | 0.1 | - | - | - | - |
| Benzo(k)fluoranthene | mg/kg | 0.1 | - | - | - | - |
| Benzo(a)pyrene | mg/kg | 0.1 | - | - | - | - |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.1 | - | - | - | - |
| Dibenzo(ah)anthracene | mg/kg | 0.1 | - | - | - | - |
| Benzo(ghi)perylene | mg/kg | 0.1 | - | - | - | - |
| Carcinogenic PAHs, BaP TEQ <LOR=0* | TEQ (mg/kg) | 0.2 | - | - | - | - |
| Carcinogenic PAHs, BaP TEQ <LOR=LOR/2* | TEQ (mg/kg) | 0.2 | - | - | - | - |
| Carcinogenic PAHs, BaP TEQ <LOR=LOR* | TEQ (mg/kg) | 0.3 | - | - | - | - |
| Total PAH (18) | mg/kg | 0.8 | - | - | - | - |
| Total PAH (NEPM/WHO 16) | mg/kg | 0.8 | - | - | - | - |
| Surrogates | | | | | | |
| d5-nitrobenzene (Surrogate) | % | - | - | - | - | - |
| 2-fluorobiphenyl (Surrogate) | % | - | - | - | - | - |
| d14-p-terphenyl (Surrogate) | % | - | - | - | - | - |
| **OC Pesticides in Soil Method: AN420 Tested: 17/1/2023** | | | | | | |
| Alpha BHC | mg/kg | 0.1 | - | - | - | - |
| Hexachlorobenzene (HCB) | mg/kg | 0.1 | - | - | - | - |
| Beta BHC | mg/kg | 0.1 | - | - | - | - |
| Lindane (gamma BHC) | mg/kg | 0.1 | - | - | - | - |
| Delta BHC | mg/kg | 0.1 | - | - | - | - |
| Heptachlor | mg/kg | 0.1 | - | - | - | - |
| Aldrin | mg/kg | 0.1 | - | - | - | - |
| Isodrin | mg/kg | 0.1 | - | - | - | - |
| Heptachlor epoxide | mg/kg | 0.1 | - | - | - | - |
| Gamma Chlordane | mg/kg | 0.1 | - | - | - | - |
| Alpha Chlordane | mg/kg | 0.1 | - | - | - | - |
| Alpha Endosulfan | mg/kg | 0.2 | - | - | - | - |
| o,p'-DDE* | mg/kg | 0.1 | - | - | - | - |
| p,p'-DDE | mg/kg | 0.1 | - | - | - | - |
| Dieldrin | mg/kg | 0.2 | - | - | - | - |
| Endrin | mg/kg | 0.2 | - | - | - | - |

| Parameter | Units | LOR | Sample Number: SE241552A.001<br>Sample Matrix: Water<br>Sample Date: 10 Jan 2023<br>Sample Name: ST-01-1533-GW4 | SE241552A.002<br>Water<br>10 Jan 2023<br>ST-01-1533-GW5 | SE241552A.003<br>Water<br>10 Jan 2023<br>ST-01-1533-WD1 | SE241552A.004<br>Water<br>10 Jan 2023<br>ST-01-1533-WD2 |
|---|---|---|---|---|---|---|
| **OC Pesticides in Soil Method: AN420 Tested: 17/1/2023 (continued)** | | | | | | |
| Beta Endosulfan | mg/kg | 0.2 | - | - | - | - |
| o,p'-DDD* | mg/kg | 0.1 | - | - | - | - |
| p,p'-DDD | mg/kg | 0.1 | - | - | - | - |
| Endrin aldehyde | mg/kg | 0.1 | - | - | - | - |
| Endosulfan sulphate | mg/kg | 0.1 | - | - | - | - |
| o,p'-DDT* | mg/kg | 0.1 | - | - | - | - |
| p,p'-DDT | mg/kg | 0.1 | - | - | - | - |
| Endrin ketone | mg/kg | 0.1 | - | - | - | - |
| Methoxychlor | mg/kg | 0.1 | - | - | - | - |
| Mirex | mg/kg | 0.1 | - | - | - | - |
| trans-Nonachlor | mg/kg | 0.1 | - | - | - | - |
| Total CLP OC Pesticides | mg/kg | 1 | - | - | - | - |
| Total OC VIC EPA | mg/kg | 1 | - | - | - | - |
| Surrogates | | | | | | |
| Tetrachloro-m-xylene (TCMX) (Surrogate) | % | - | - | - | - | - |
| **OP Pesticides in Soil Method: AN420 Tested: 17/1/2023** | | | | | | |
| Azinphos-methyl (Guthion) | mg/kg | 0.2 | - | - | - | - |
| Bromophos Ethyl | mg/kg | 0.2 | - | - | - | - |
| Chlorpyrifos (Chlorpyrifos Ethyl) | mg/kg | 0.2 | - | - | - | - |
| Diazinon (Dimpylate) | mg/kg | 0.5 | - | - | - | - |
| Dichlorvos | mg/kg | 0.5 | - | - | - | - |
| Dimethoate | mg/kg | 0.5 | - | - | - | - |
| Ethion | mg/kg | 0.2 | - | - | - | - |
| Fenitrothion | mg/kg | 0.2 | - | - | - | - |
| Malathion | mg/kg | 0.2 | - | - | - | - |
| Methidathion | mg/kg | 0.5 | - | - | - | - |
| Parathion-ethyl (Parathion) | mg/kg | 0.2 | - | - | - | - |
| Total OP Pesticides* | mg/kg | 1.7 | - | - | - | - |
| Surrogates | | | | | | |
| 2-fluorobiphenyl (Surrogate) | % | - | - | - | - | - |
| d14-p-terphenyl (Surrogate) | % | - | - | - | - | - |
| **PCBs in Soil Method: AN420 Tested: 17/1/2023** | | | | | | |
| Arochlor 1016 | mg/kg | 0.2 | - | - | - | - |
| Arochlor 1221 | mg/kg | 0.2 | - | - | - | - |
| Arochlor 1232 | mg/kg | 0.2 | - | - | - | - |
| Arochlor 1242 | mg/kg | 0.2 | - | - | - | - |
| Arochlor 1248 | mg/kg | 0.2 | - | - | - | - |
| Arochlor 1254 | mg/kg | 0.2 | - | - | - | - |
| Arochlor 1260 | mg/kg | 0.2 | - | - | - | - |
| Arochlor 1262 | mg/kg | 0.2 | - | - | - | - |
| Arochlor 1268 | mg/kg | 0.2 | - | - | - | - |
| Total PCBs (Arochlors) | mg/kg | 1 | - | - | - | - |
| Surrogates | | | | | | |
| TCMX (Surrogate) | % | - | - | - | - | - |

| Parameter | Units | LOR | Sample Number: SE241552A.001<br>Sample Matrix: Water<br>Sample Date: 10 Jan 2023<br>Sample Name: ST-01-1533-GW4 | SE241552A.002<br>Water<br>10 Jan 2023<br>ST-01-1533-GW5 | SE241552A.003<br>Water<br>10 Jan 2023<br>ST-01-1533-WD1 | SE241552A.004<br>Water<br>10 Jan 2023<br>ST-01-1533-WD2 |
|---|---|---|---|---|---|---|
| **Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES Method: AN040/AN320 Tested: 17/1/2023** | | | | | | |
| Arsenic, As | mg/kg | 1 | - | - | - | - |
| Cadmium, Cd | mg/kg | 0.3 | - | - | - | - |
| Chromium, Cr | mg/kg | 0.5 | - | - | - | - |
| Copper, Cu | mg/kg | 0.5 | - | - | - | - |
| Nickel, Ni | mg/kg | 0.5 | - | - | - | - |
| Lead, Pb | mg/kg | 1 | - | - | - | - |
| Zinc, Zn | mg/kg | 2 | - | - | - | - |
| **Mercury in Soil Method: AN312 Tested: 17/1/2023** | | | | | | |
| Mercury | mg/kg | 0.05 | - | - | - | - |
| **Moisture Content Method: AN002 Tested: 17/1/2023** | | | | | | |
| % Moisture | %w/w | 1 | - | - | - | - |

| Parameter | Units | LOR | Sample Number<br>Sample Matrix<br>Sample Date<br>Sample Name<br>SE241552A.005<br>Water<br>10 Jan 2023<br>Trip Spike | SE241552A.006<br>Water<br>10 Jan 2023<br>Trip Blank | SE241552A.007<br>Soil<br>10 Jan 2023<br>ST-01-1533-WD1( Sediment) |
|---|---|---|---|---|---|
| **VOC's in Soil Method: AN433 Tested: 17/1/2023** | | | | | |
| 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) | % | - | - | - | **96** |
| d8-toluene (Surrogate) | % | - | - | - | **92** |
| Bromofluorobenzene (Surrogate) | % | - | - | - | **94** |
| Totals | | | | | |
| Total BTEX* | mg/kg | 0.6 | - | - | <0.6 |
| Total Xylenes* | mg/kg | 0.3 | - | - | <0.3 |
| **Volatile Petroleum Hydrocarbons in Soil Method: AN433 Tested: 17/1/2023** | | | | | |
| TRH C6-C10 | mg/kg | 25 | - | - | <25 |
| TRH C6-C9 | mg/kg | 20 | - | - | <20 |
| Surrogates | | | | | |
| d4-1,2-dichloroethane (Surrogate) | % | - | - | - | **96** |
| d8-toluene (Surrogate) | % | - | - | - | **92** |
| Bromofluorobenzene (Surrogate) | % | - | - | - | **94** |
| VPH F Bands | | | | | |
| Benzene (F0) | mg/kg | 0.1 | - | - | <0.1 |
| TRH C6-C10 minus BTEX (F1) | mg/kg | 25 | - | - | <25 |

| Parameter | Units | LOR | Sample Number<br>Sample Matrix<br>Sample Date<br>Sample Name | SE241552A.005<br>Water<br>10 Jan 2023<br>Trip Spike | SE241552A.006<br>Water<br>10 Jan 2023<br>Trip Blank | SE241552A.007<br>Soil<br>10 Jan 2023<br>ST-01-1533-WD1( Sediment) |
|---|---|---|---|---|---|---|
| **TRH (Total Recoverable Hydrocarbons) in Soil Method: AN403 Tested: 17/1/2023** | | | | | | |
| TRH C10-C14 | mg/kg | 20 | | - | - | <40↑ |
| TRH C15-C28 | mg/kg | 45 | | - | - | <90↑ |
| TRH C29-C36 | mg/kg | 45 | | - | - | <90↑ |
| TRH C37-C40 | mg/kg | 100 | | - | - | <200↑ |
| TRH C10-C36 Total | mg/kg | 110 | | - | - | <220↑ |
| TRH >C10-C40 Total (F bands) | mg/kg | 210 | | - | - | <420↑ |
| TRH F Bands | | | | | | |
| TRH >C10-C16 | mg/kg | 25 | | - | - | <50↑ |
| TRH >C10-C16 - Naphthalene (F2) | mg/kg | 25 | | - | - | <50↑ |
| TRH >C16-C34 (F3) | mg/kg | 90 | | - | - | <180↑ |
| TRH >C34-C40 (F4) | mg/kg | 120 | | - | - | <240↑ |
| **PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420 Tested: 17/1/2023** | | | | | | |
| Naphthalene | mg/kg | 0.1 | | - | - | <0.1 |
| 2-methylnaphthalene | mg/kg | 0.1 | | - | - | <0.1 |
| 1-methylnaphthalene | mg/kg | 0.1 | | - | - | <0.1 |
| Acenaphthylene | mg/kg | 0.1 | | - | - | <0.1 |
| Acenaphthene | mg/kg | 0.1 | | - | - | <0.1 |
| Fluorene | mg/kg | 0.1 | | - | - | <0.1 |
| Phenanthrene | mg/kg | 0.1 | | - | - | <0.1 |
| Anthracene | mg/kg | 0.1 | | - | - | <0.1 |
| Fluoranthene | mg/kg | 0.1 | | - | - | <0.1 |
| Pyrene | mg/kg | 0.1 | | - | - | <0.1 |
| Benzo(a)anthracene | mg/kg | 0.1 | | - | - | <0.1 |
| Chrysene | mg/kg | 0.1 | | - | - | <0.1 |
| Benzo(b&j)fluoranthene | mg/kg | 0.1 | | - | - | <0.1 |
| Benzo(k)fluoranthene | mg/kg | 0.1 | | - | - | <0.1 |
| Benzo(a)pyrene | mg/kg | 0.1 | | - | - | <0.1 |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.1 | | - | - | <0.1 |
| Dibenzo(ah)anthracene | mg/kg | 0.1 | | - | - | <0.1 |
| Benzo(ghi)perylene | mg/kg | 0.1 | | - | - | <0.1 |
| Carcinogenic PAHs, BaP TEQ <LOR=0* | TEQ (mg/kg) | 0.2 | | - | - | <0.2 |
| Carcinogenic PAHs, BaP TEQ <LOR=LOR/2* | TEQ (mg/kg) | 0.2 | | - | - | <0.2 |
| Carcinogenic PAHs, BaP TEQ <LOR=LOR* | TEQ (mg/kg) | 0.3 | | - | - | <0.3 |
| Total PAH (18) | mg/kg | 0.8 | | - | - | <0.8 |
| Total PAH (NEPM/WHO 16) | mg/kg | 0.8 | | - | - | <0.8 |
| Surrogates | | | | | | |
| d5-nitrobenzene (Surrogate) | % | - | | - | - | **90** |
| 2-fluorobiphenyl (Surrogate) | % | - | | - | - | **78** |
| d14-p-terphenyl (Surrogate) | % | - | | - | - | **84** |
| **OC Pesticides in Soil Method: AN420 Tested: 17/1/2023** | | | | | | |
| Alpha BHC | mg/kg | 0.1 | | - | - | <0.2↑ |
| Hexachlorobenzene (HCB) | mg/kg | 0.1 | | - | - | <0.2↑ |
| Beta BHC | mg/kg | 0.1 | | - | - | <0.2↑ |
| Lindane (gamma BHC) | mg/kg | 0.1 | | - | - | <0.2↑ |
| Delta BHC | mg/kg | 0.1 | | - | - | <0.2↑ |
| Heptachlor | mg/kg | 0.1 | | - | - | <0.2↑ |
| Aldrin | mg/kg | 0.1 | | - | - | <0.2↑ |
| Isodrin | mg/kg | 0.1 | | - | - | <0.2↑ |
| Heptachlor epoxide | mg/kg | 0.1 | | - | - | <0.2↑ |
| Gamma Chlordane | mg/kg | 0.1 | | - | - | <0.2↑ |
| Alpha Chlordane | mg/kg | 0.1 | | - | - | <0.2↑ |
| Alpha Endosulfan | mg/kg | 0.2 | | - | - | <0.4↑ |
| o,p'-DDE* | mg/kg | 0.1 | | - | - | <0.2↑ |
| p,p'-DDE | mg/kg | 0.1 | | - | - | <0.2↑ |
| Dieldrin | mg/kg | 0.2 | | - | - | <0.4↑ |

| Parameter | Units | LOR | Sample Number<br>Sample Matrix<br>Sample Date<br>Sample Name<br>SE241552A.005<br>Water<br>10 Jan 2023<br>Trip Spike | SE241552A.006<br>Water<br>10 Jan 2023<br>Trip Blank | SE241552A.007<br>Soil<br>10 Jan 2023<br>ST-01-1533-WD1( Sediment) |
|---|---|---|---|---|---|
| **OC Pesticides in Soil Method: AN420 Tested: 13/1/2023 (continued)** | | | | | |
| Endrin | mg/kg | 0.2 | - | - | <0.4↑ |
| Beta Endosulfan | mg/kg | 0.2 | - | - | <0.4↑ |
| o,p'-DDD* | mg/kg | 0.1 | - | - | <0.2↑ |
| p,p'-DDD | mg/kg | 0.1 | - | - | <0.2↑ |
| Endrin aldehyde | mg/kg | 0.1 | - | - | <0.2↑ |
| Endosulfan sulphate | mg/kg | 0.1 | - | - | <0.2↑ |
| o,p'-DDT* | mg/kg | 0.1 | - | - | <0.2↑ |
| p,p'-DDT | mg/kg | 0.1 | - | - | <0.2↑ |
| Endrin ketone | mg/kg | 0.1 | - | - | <0.2↑ |
| Methoxychlor | mg/kg | 0.1 | - | - | <0.2↑ |
| Mirex | mg/kg | 0.1 | - | - | <0.2↑ |
| trans-Nonachlor | mg/kg | 0.1 | - | - | <0.2↑ |
| Total CLP OC Pesticides | mg/kg | 1 | - | - | <2↑ |
| Total OC VIC EPA | mg/kg | 1 | - | - | <2↑ |
| Surrogates | | | | | |
| Tetrachloro-m-xylene (TCMX) (Surrogate) | % | - | - | - | **96** |
| **OP Pesticides in Soil Method: AN420 Tested: 17/1/2023** | | | | | |
| Azinphos-methyl (Guthion) | mg/kg | 0.2 | - | - | <0.2 |
| Bromophos Ethyl | mg/kg | 0.2 | - | - | <0.2 |
| Chlorpyrifos (Chlorpyrifos Ethyl) | mg/kg | 0.2 | - | - | <0.2 |
| Diazinon (Dimpylate) | mg/kg | 0.5 | - | - | <0.5 |
| Dichlorvos | mg/kg | 0.5 | - | - | <0.5 |
| Dimethoate | mg/kg | 0.5 | - | - | <0.5 |
| Ethion | mg/kg | 0.2 | - | - | <0.2 |
| Fenitrothion | mg/kg | 0.2 | - | - | <0.2 |
| Malathion | mg/kg | 0.2 | - | - | <0.2 |
| Methidathion | mg/kg | 0.5 | - | - | <0.5 |
| Parathion-ethyl (Parathion) | mg/kg | 0.2 | - | - | <0.2 |
| Total OP Pesticides* | mg/kg | 1.7 | - | - | <1.7 |
| Surrogates | | | | | |
| 2-fluorobiphenyl (Surrogate) | % | - | - | - | **78** |
| d14-p-terphenyl (Surrogate) | % | - | - | - | **84** |
| **PCBs in Soil Method: AN420 Tested: 17/1/2023** | | | | | |
| 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 |

| Parameter | Units | LOR | Sample Number<br>Sample Matrix<br>Sample Date<br>Sample Name<br>SE241552A.005<br>Water<br>10 Jan 2023<br>Trip Spike | SE241552A.006<br>Water<br>10 Jan 2023<br>Trip Blank | SE241552A.007<br>Soil<br>10 Jan 2023<br>ST-01-1533-WD1( Sediment) |
|---|---|---|---|---|---|
| **PCBs in Soil Method: AN420 Tested: 17/1/2023 (continued)** | | | | | |
| Surrogates | | | | | |
| TCMX (Surrogate) | % | - | - | - | **98** |
| **Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES Method: AN040/AN320 Tested: 17/1/2023** | | | | | |
| Arsenic, As | mg/kg | 1 | - | - | **2** |
| Cadmium, Cd | mg/kg | 0.3 | - | - | <0.3 |
| Chromium, Cr | mg/kg | 0.5 | - | - | **56** |
| Copper, Cu | mg/kg | 0.5 | - | - | **18** |
| Nickel, Ni | mg/kg | 0.5 | - | - | **31** |
| Lead, Pb | mg/kg | 1 | - | - | **8** |
| Zinc, Zn | mg/kg | 2 | - | - | **34** |
| **Mercury in Soil Method: AN312 Tested: 17/1/2023** | | | | | |
| Mercury | mg/kg | 0.05 | - | - | <0.05 |
| **Moisture Content Method: AN002 Tested: 17/1/2023** | | | | | |
| % Moisture | %w/w | 1 | - | - | **54.6** |

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

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

| Parameter | QC Reference | Units | LOR | MB | DUP %RPD | LCS %Recovery | MS %Recovery |
|---|---|---|---|---|---|---|---|
| Mercury | LB268767 | mg/kg | 0.05 | <0.05 | 0% | 113% | 110% |

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

| Parameter | QC Reference | Units | LOR | DUP %RPD |
|---|---|---|---|---|
| % Moisture | LB268758 | %w/w | 1 | 1 - 7% |

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

| Parameter | QC Reference | Units | LOR | MB | DUP %RPD | LCS %Recovery | MS %Recovery |
|---|---|---|---|---|---|---|---|
| Alpha BHC | LB268742 | mg/kg | 0.1 | <0.1 | 0% | NA | NA |
| Hexachlorobenzene (HCB) | LB268742 | mg/kg | 0.1 | <0.1 | 0% | NA | NA |
| Beta BHC | LB268742 | mg/kg | 0.1 | <0.1 | 0% | NA | NA |
| Lindane (gamma BHC) | LB268742 | mg/kg | 0.1 | <0.1 | 0% | NA | NA |
| Delta BHC | LB268742 | mg/kg | 0.1 | <0.1 | 0% | 80% | 84% |
| Heptachlor | LB268742 | mg/kg | 0.1 | <0.1 | 0% | 84% | 92% |
| Aldrin | LB268742 | mg/kg | 0.1 | <0.1 | 0% | 82% | 90% |
| Isodrin | LB268742 | mg/kg | 0.1 | <0.1 | 0% | NA | NA |
| Heptachlor epoxide | LB268742 | mg/kg | 0.1 | <0.1 | 0% | NA | NA |
| Gamma Chlordane | LB268742 | mg/kg | 0.1 | <0.1 | 0% | NA | NA |
| Alpha Chlordane | LB268742 | mg/kg | 0.1 | <0.1 | 0% | NA | NA |
| Alpha Endosulfan | LB268742 | mg/kg | 0.2 | <0.1 | 0% | NA | NA |
| o,p'-DDE* | LB268742 | mg/kg | 0.1 | <0.1 | 0% | NA | NA |
| p,p'-DDE | LB268742 | mg/kg | 0.1 | <0.1 | 0% | NA | NA |
| Dieldrin | LB268742 | mg/kg | 0.2 | <0.1 | 0% | 83% | 89% |
| Endrin | LB268742 | mg/kg | 0.2 | <0.1 | 0% | 80% | 86% |
| Beta Endosulfan | LB268742 | mg/kg | 0.2 | <0.1 | 0% | NA | NA |
| o,p'-DDD* | LB268742 | mg/kg | 0.1 | <0.1 | 0% | NA | NA |
| p,p'-DDD | LB268742 | mg/kg | 0.1 | <0.1 | 0% | NA | NA |
| Endrin aldehyde | LB268742 | mg/kg | 0.1 | <0.1 | 0% | NA | NA |
| Endosulfan sulphate | LB268742 | mg/kg | 0.1 | <0.1 | 0% | NA | NA |
| o,p'-DDT* | LB268742 | mg/kg | 0.1 | <0.1 | 0% | NA | NA |
| p,p'-DDT | LB268742 | mg/kg | 0.1 | <0.1 | 0% | 72% | 79% |
| Endrin ketone | LB268742 | mg/kg | 0.1 | <0.1 | 0% | NA | NA |
| Methoxychlor | LB268742 | mg/kg | 0.1 | <0.1 | 0% | NA | NA |
| Mirex | LB268742 | mg/kg | 0.1 | <0.1 | 0% | NA | NA |
| trans-Nonachlor | LB268742 | mg/kg | 0.1 | <0.1 | 0% | NA | NA |
| Total CLP OC Pesticides | LB268742 | mg/kg | 1 | <1 | 0% | NA | NA |
| Total OC VIC EPA | LB268742 | mg/kg | 1 | <1 | 0% | NA | NA |

Surrogates

| Parameter | QC Reference | Units | LOR | MB | DUP %RPD | LCS %Recovery | MS %Recovery |
|---|---|---|---|---|---|---|---|
| Tetrachloro-m-xylene (TCMX) (Surrogate) | LB268742 | % | - | 87% | 2 - 7% | 89% | 91% |

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

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

| Parameter | QC Reference | Units | LOR | MB | DUP %RPD | LCS %Recovery | MS %Recovery |
|---|---|---|---|---|---|---|---|
| Azinphos-methyl (Guthion) | LB268742 | mg/kg | 0.2 | <0.2 | 0% | NA | NA |
| Bromophos Ethyl | LB268742 | mg/kg | 0.2 | <0.2 | 0% | NA | NA |
| Chlorpyrifos (Chlorpyrifos Ethyl) | LB268742 | mg/kg | 0.2 | <0.2 | 0% | 98% | 90% |
| Diazinon (Dimpylate) | LB268742 | mg/kg | 0.5 | <0.5 | 0% | 96% | 90% |
| Dichlorvos | LB268742 | mg/kg | 0.5 | <0.5 | 0% | 83% | 77% |
| Dimethoate | LB268742 | mg/kg | 0.5 | <0.5 | 0% | NA | NA |
| Ethion | LB268742 | mg/kg | 0.2 | <0.2 | 0% | 83% | 77% |
| Fenitrothion | LB268742 | mg/kg | 0.2 | <0.2 | 0% | NA | NA |
| Malathion | LB268742 | mg/kg | 0.2 | <0.2 | 0% | NA | NA |
| Methidathion | LB268742 | mg/kg | 0.5 | <0.5 | 0% | NA | NA |
| Parathion-ethyl (Parathion) | LB268742 | mg/kg | 0.2 | <0.2 | 0% | NA | NA |
| Total OP Pesticides* | LB268742 | mg/kg | 1.7 | <1.7 | 0% | NA | NA |

Surrogates

| Parameter | QC Reference | Units | LOR | MB | DUP %RPD | LCS %Recovery | MS %Recovery |
|---|---|---|---|---|---|---|---|
| 2-fluorobiphenyl (Surrogate) | LB268742 | % | - | 78% | 0 - 3% | 74% | 72% |
| d14-p-terphenyl (Surrogate) | LB268742 | % | - | 78% | 0% | 74% | 72% |

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

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

| Parameter | QC Reference | Units | LOR | MB | DUP %RPD | LCS %Recovery | MS %Recovery |
|---|---|---|---|---|---|---|---|
| Naphthalene | LB268742 | mg/kg | 0.1 | <0.1 | 0% | 114% | 113% |
| 2-methylnaphthalene | LB268742 | mg/kg | 0.1 | <0.1 | 0% | NA | NA |
| 1-methylnaphthalene | LB268742 | mg/kg | 0.1 | <0.1 | 0% | NA | NA |
| Acenaphthylene | LB268742 | mg/kg | 0.1 | <0.1 | 0% | 96% | 94% |
| Acenaphthene | LB268742 | mg/kg | 0.1 | <0.1 | 0% | 118% | 114% |
| Fluorene | LB268742 | mg/kg | 0.1 | <0.1 | 0% | NA | NA |
| Phenanthrene | LB268742 | mg/kg | 0.1 | <0.1 | 0% | 120% | 116% |
| Anthracene | LB268742 | mg/kg | 0.1 | <0.1 | 0% | 117% | 114% |
| Fluoranthene | LB268742 | mg/kg | 0.1 | <0.1 | 0% | 114% | 110% |
| Pyrene | LB268742 | mg/kg | 0.1 | <0.1 | 0% | 113% | 110% |
| Benzo(a)anthracene | LB268742 | mg/kg | 0.1 | <0.1 | 0% | NA | NA |
| Chrysene | LB268742 | mg/kg | 0.1 | <0.1 | 0% | NA | NA |
| Benzo(b&j)fluoranthene | LB268742 | mg/kg | 0.1 | <0.1 | 0% | NA | NA |
| Benzo(k)fluoranthene | LB268742 | mg/kg | 0.1 | <0.1 | 0% | NA | NA |
| Benzo(a)pyrene | LB268742 | mg/kg | 0.1 | <0.1 | 0% | 110% | 109% |
| Indeno(1,2,3-cd)pyrene | LB268742 | mg/kg | 0.1 | <0.1 | 0% | NA | NA |
| Dibenzo(ah)anthracene | LB268742 | mg/kg | 0.1 | <0.1 | 0% | NA | NA |
| Benzo(ghi)perylene | LB268742 | mg/kg | 0.1 | <0.1 | 0% | NA | NA |
| Carcinogenic PAHs, BaP TEQ <LOR=0* | LB268742 | TEQ (mg/kg) | 0.2 | <0.2 | 0% | NA | NA |
| Carcinogenic PAHs, BaP TEQ <LOR=LOR/2* | LB268742 | TEQ (mg/kg) | 0.2 | <0.2 | 0% | NA | NA |
| Carcinogenic PAHs, BaP TEQ <LOR=LOR* | LB268742 | TEQ (mg/kg) | 0.3 | <0.3 | 0% | NA | NA |
| Total PAH (18) | LB268742 | mg/kg | 0.8 | <0.8 | 0% | NA | NA |
| Total PAH (NEPM/WHO 16) | LB268742 | mg/kg | 0.8 | <0.8 | | | |

Surrogates

| Parameter | QC Reference | Units | LOR | MB | DUP %RPD | LCS %Recovery | MS %Recovery |
|---|---|---|---|---|---|---|---|
| d5-nitrobenzene (Surrogate) | LB268742 | % | - | 80% | 2% | 84% | 82% |
| 2-fluorobiphenyl (Surrogate) | LB268742 | % | - | 78% | 0 - 3% | 74% | 72% |
| d14-p-terphenyl (Surrogate) | LB268742 | % | - | 78% | 0% | 74% | 72% |

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

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

| Parameter | QC Reference | Units | LOR | MB | DUP %RPD | LCS %Recovery | MS %Recovery |
|---|---|---|---|---|---|---|---|
| Arochlor 1016 | LB268742 | mg/kg | 0.2 | <0.2 | 0% | NA | NA |
| Arochlor 1221 | LB268742 | mg/kg | 0.2 | <0.2 | 0% | NA | NA |
| Arochlor 1232 | LB268742 | mg/kg | 0.2 | <0.2 | 0% | NA | NA |
| Arochlor 1242 | LB268742 | mg/kg | 0.2 | <0.2 | 0% | NA | NA |
| Arochlor 1248 | LB268742 | mg/kg | 0.2 | <0.2 | 0% | NA | NA |
| Arochlor 1254 | LB268742 | mg/kg | 0.2 | <0.2 | 0% | NA | NA |
| Arochlor 1260 | LB268742 | mg/kg | 0.2 | <0.2 | 0% | 116% | 124% |
| Arochlor 1262 | LB268742 | mg/kg | 0.2 | <0.2 | 0% | NA | NA |
| Arochlor 1268 | LB268742 | mg/kg | 0.2 | <0.2 | 0% | NA | NA |
| Total PCBs (Arochlors) | LB268742 | mg/kg | 1 | <1 | 0% | NA | NA |

Surrogates

| Parameter | QC Reference | Units | LOR | MB | DUP %RPD | LCS %Recovery | MS %Recovery |
|---|---|---|---|---|---|---|---|
| TCMX (Surrogate) | LB268742 | % | - | 89% | 2 - 7% | 91% | 93% |

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

| Parameter | QC Reference | Units | LOR | MB | DUP %RPD | LCS %Recovery | MS %Recovery |
|---|---|---|---|---|---|---|---|
| Arsenic, As | LB268764 | mg/kg | 1 | <1 | 8 - 11% | 109% | 78% |
| Cadmium, Cd | LB268764 | mg/kg | 0.3 | <0.3 | 0% | 97% | 88% |
| Chromium, Cr | LB268764 | mg/kg | 0.5 | <0.5 | 3 - 4% | 106% | 90% |
| Copper, Cu | LB268764 | mg/kg | 0.5 | <0.5 | 3 - 10% | 108% | 82% |
| Nickel, Ni | LB268764 | mg/kg | 0.5 | <0.5 | 5 - 18% | 103% | 85% |
| Lead, Pb | LB268764 | mg/kg | 1 | <1 | 7 - 10% | 103% | 85% |
| Zinc, Zn | LB268764 | mg/kg | 2 | <2.0 | 3 - 6% | 102% | 80% |

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

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

| Parameter | QC Reference | Units | LOR | MB | DUP %RPD | LCS %Recovery | MS %Recovery |
|---|---|---|---|---|---|---|---|
| TRH C10-C14 | LB268742 | mg/kg | 20 | <20 | 0% | 117% | 113% |
| TRH C15-C28 | LB268742 | mg/kg | 45 | <45 | 0% | 122% | 107% |
| TRH C29-C36 | LB268742 | mg/kg | 45 | <45 | 0% | 78% | 87% |
| TRH C37-C40 | LB268742 | mg/kg | 100 | <100 | 0% | NA | |
| TRH C10-C36 Total | LB268742 | mg/kg | 110 | <110 | 0% | NA | NA |
| TRH >C10-C40 Total (F bands) | LB268742 | mg/kg | 210 | <210 | 0% | NA | NA |

TRH F Bands

| Parameter | QC Reference | Units | LOR | MB | DUP %RPD | LCS %Recovery | MS %Recovery |
|---|---|---|---|---|---|---|---|
| TRH >C10-C16 | LB268742 | mg/kg | 25 | <25 | 0% | 116% | 116% |
| TRH >C10-C16 - Naphthalene (F2) | LB268742 | mg/kg | 25 | <25 | 0% | NA | NA |
| TRH >C16-C34 (F3) | LB268742 | mg/kg | 90 | <90 | 0% | 113% | 102% |
| TRH >C34-C40 (F4) | LB268742 | mg/kg | 120 | <120 | 0% | 71% | NA |

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

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

Monocyclic Aromatic Hydrocarbons

| Parameter | QC Reference | Units | LOR | MB | DUP %RPD | LCS %Recovery | MS %Recovery |
|---|---|---|---|---|---|---|---|
| Benzene | LB268746 | mg/kg | 0.1 | <0.1 | 0% | 97% | 105% |
| Toluene | LB268746 | mg/kg | 0.1 | <0.1 | 0% | 95% | 103% |
| Ethylbenzene | LB268746 | mg/kg | 0.1 | <0.1 | 0% | 96% | 106% |
| m/p-xylene | LB268746 | mg/kg | 0.2 | <0.2 | 0% | 93% | 102% |
| o-xylene | LB268746 | mg/kg | 0.1 | <0.1 | 0% | 98% | 109% |

Polycyclic VOCs

| Parameter | QC Reference | Units | LOR | MB | DUP %RPD | LCS %Recovery | MS %Recovery |
|---|---|---|---|---|---|---|---|
| Naphthalene (VOC)* | LB268746 | mg/kg | 0.1 | <0.1 | 0% | NA | NA |

Surrogates

| Parameter | QC Reference | Units | LOR | MB | DUP %RPD | LCS %Recovery | MS %Recovery |
|---|---|---|---|---|---|---|---|
| d4-1,2-dichloroethane (Surrogate) | LB268746 | % | - | 80% | 1 - 8% | 99% | 103% |
| d8-toluene (Surrogate) | LB268746 | % | - | 78% | 0 - 10% | 95% | 99% |
| Bromofluorobenzene (Surrogate) | LB268746 | % | - | 78% | 1 - 7% | 90% | 96% |

Totals

| Parameter | QC Reference | Units | LOR | MB | DUP %RPD | LCS %Recovery | MS %Recovery |
|---|---|---|---|---|---|---|---|
| Total BTEX* | LB268746 | mg/kg | 0.6 | <0.6 | 0% | NA | NA |
| Total Xylenes* | LB268746 | mg/kg | 0.3 | <0.3 | 0% | NA | NA |

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

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

| Parameter | QC Reference | Units | LOR | MB | DUP %RPD | LCS %Recovery | MS %Recovery |
|---|---|---|---|---|---|---|---|
| TRH C6-C10 | LB268746 | mg/kg | 25 | <25 | 0% | 97% | 100% |
| TRH C6-C9 | LB268746 | mg/kg | 20 | <20 | 0% | 97% | 100% |

Surrogates

| Parameter | QC Reference | Units | LOR | MB | DUP %RPD | LCS %Recovery | MS %Recovery |
|---|---|---|---|---|---|---|---|
| d4-1,2-dichloroethane (Surrogate) | LB268746 | % | - | 80% | 1 - 8% | 99% | 103% |
| d8-toluene (Surrogate) | LB268746 | % | - | 78% | 0 - 10% | 95% | 99% |
| Bromofluorobenzene (Surrogate) | LB268746 | % | - | 78% | 1 - 7% | 90% | 96% |

VPH F Bands

| Parameter | QC Reference | Units | LOR | MB | DUP %RPD | LCS %Recovery | MS %Recovery |
|---|---|---|---|---|---|---|---|
| Benzene (F0) | LB268746 | mg/kg | 0.1 | <0.1 | 0% | NA | NA |
| TRH C6-C10 minus BTEX (F1) | LB268746 | mg/kg | 25 | <25 | 0% | 98% | 98% |

| 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 | 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. |
| 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. |
| 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).<br>Total PAH calculated from individual analyte detections at or above the limit of reporting . |
| 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. |

FOOTNOTES

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

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

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

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

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

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

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

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

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

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.

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# STATEMENT OF QA/QC PERFORMANCE

**SE241552A R0**

## CLIENT DETAILS

| | |
|---|---|
| Contact | Kannan Kaliappan |
| Client | K2 CONSULTING GROUP |
| Address | SUITE 222, 20B LEXINGTON DRIVE<br>BELLA VISTA NSW 2153 |
| Telephone | 61 8 00 523 000 |
| Facsimile | (Not specified) |
| Email | kannan@k2consultinggroup.com.au |
| Project | **ST-01-1533(515 Crookwell Road, Kingsdale** |
| Order Number | **ST-01-1533** |
| Samples | 7 |

## LABORATORY DETAILS

| | |
|---|---|
| Manager | Huong Crawford |
| Laboratory | SGS Alexandria Environmental |
| Address | Unit 16, 33 Maddox St<br>Alexandria NSW 2015 |
| Telephone | +61 2 8594 0400 |
| Facsimile | +61 2 8594 0499 |
| Email | au.environmental.sydney@sgs.com |
| SGS Reference | **SE241552A R0** |
| Date Received | 12 Jan 2023 |
| Date Reported | 17 Jan 2023 |

## 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 (within the SGS Alexandria Environmental laboratory).

## SAMPLE SUMMARY

| | | | |
|---|---|---|---|
| Sample counts by matrix | 1 Soil | Type of documentation received | COC |
| Date documentation received | 12/1/2023@2:10pm | Samples received in good order | Yes |
| Samples received without headspace | Yes | Sample temperature upon receipt | 10.0°C |
| Sample container provider | SGS | Turnaround time requested | Standard |
| Samples received in correct containers | Yes | Sufficient sample for analysis | Yes |
| Sample cooling method | Ice | Samples clearly labelled | Yes |
| Complete documentation received | Yes | | |

# HOLDING TIME SUMMARY

SE241552A 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)-[ENV]AN312

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| ST-01-1533-WD1(Sediment | SE241552A.007 | LB268767 | 10 Jan 2023 | 12 Jan 2023 | 07 Feb 2023 | 13 Jan 2023 | 07 Feb 2023 | 17 Jan 2023 |

## Moisture Content

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| ST-01-1533-WD1(Sediment | SE241552A.007 | LB268758 | 10 Jan 2023 | 12 Jan 2023 | 24 Jan 2023 | 13 Jan 2023 | 18 Jan 2023 | 17 Jan 2023 |

## OC Pesticides in Soil

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| ST-01-1533-WD1(Sediment | SE241552A.007 | LB268742 | 10 Jan 2023 | 12 Jan 2023 | 24 Jan 2023 | 13 Jan 2023 | 22 Feb 2023 | 17 Jan 2023 |

## OP Pesticides in Soil

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| ST-01-1533-WD1(Sediment | SE241552A.007 | LB268742 | 10 Jan 2023 | 12 Jan 2023 | 24 Jan 2023 | 13 Jan 2023 | 22 Feb 2023 | 17 Jan 2023 |

## PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| ST-01-1533-WD1(Sediment | SE241552A.007 | LB268742 | 10 Jan 2023 | 12 Jan 2023 | 24 Jan 2023 | 13 Jan 2023 | 22 Feb 2023 | 17 Jan 2023 |

## PCBs in Soil

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| ST-01-1533-WD1(Sediment | SE241552A.007 | LB268742 | 10 Jan 2023 | 12 Jan 2023 | 24 Jan 2023 | 13 Jan 2023 | 22 Feb 2023 | 17 Jan 2023 |

## 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 |
|---|---|---|---|---|---|---|---|---|
| ST-01-1533-WD1(Sediment | SE241552A.007 | LB268764 | 10 Jan 2023 | 12 Jan 2023 | 09 Jul 2023 | 13 Jan 2023 | 09 Jul 2023 | 17 Jan 2023 |

## TRH (Total Recoverable Hydrocarbons) in Soil

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| ST-01-1533-WD1(Sediment | SE241552A.007 | LB268742 | 10 Jan 2023 | 12 Jan 2023 | 24 Jan 2023 | 13 Jan 2023 | 22 Feb 2023 | 17 Jan 2023 |

## VOC's in Soil

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| ST-01-1533-WD1(Sediment | SE241552A.007 | LB268746 | 10 Jan 2023 | 12 Jan 2023 | 24 Jan 2023 | 13 Jan 2023 | 24 Jan 2023 | 17 Jan 2023 |

## Volatile Petroleum Hydrocarbons in Soil

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| ST-01-1533-WD1(Sediment | SE241552A.007 | LB268746 | 10 Jan 2023 | 12 Jan 2023 | 24 Jan 2023 | 13 Jan 2023 | 24 Jan 2023 | 17 Jan 2023 |

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

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

### OC Pesticides in Soil

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| Tetrachloro-m-xylene (TCMX) (Surrogate) | ST-01-1533-WD1(Sediment) | SE241552A.007 | % | 60 - 130% | 96 |

### OP Pesticides in Soil

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| 2-fluorobiphenyl (Surrogate) | ST-01-1533-WD1(Sediment) | SE241552A.007 | % | 60 - 130% | 78 |
| d14-p-terphenyl (Surrogate) | ST-01-1533-WD1(Sediment) | SE241552A.007 | % | 60 - 130% | 84 |

### PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| 2-fluorobiphenyl (Surrogate) | ST-01-1533-WD1(Sediment) | SE241552A.007 | % | 70 - 130% | 78 |
| d14-p-terphenyl (Surrogate) | ST-01-1533-WD1(Sediment) | SE241552A.007 | % | 70 - 130% | 84 |
| d5-nitrobenzene (Surrogate) | ST-01-1533-WD1(Sediment) | SE241552A.007 | % | 70 - 130% | 90 |

### PCBs in Soil

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| TCMX (Surrogate) | ST-01-1533-WD1(Sediment) | SE241552A.007 | % | 60 - 130% | 98 |

### VOC's in Soil

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| Bromofluorobenzene (Surrogate) | ST-01-1533-WD1(Sediment) | SE241552A.007 | % | 60 - 130% | 94 |
| d4-1,2-dichloroethane (Surrogate) | ST-01-1533-WD1(Sediment) | SE241552A.007 | % | 60 - 130% | 96 |
| d8-toluene (Surrogate) | ST-01-1533-WD1(Sediment) | SE241552A.007 | % | 60 - 130% | 92 |

### Volatile Petroleum Hydrocarbons in Soil

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| Bromofluorobenzene (Surrogate) | ST-01-1533-WD1(Sediment) | SE241552A.007 | % | 60 - 130% | 94 |
| d4-1,2-dichloroethane (Surrogate) | ST-01-1533-WD1(Sediment) | SE241552A.007 | % | 60 - 130% | 96 |
| d8-toluene (Surrogate) | ST-01-1533-WD1(Sediment) | SE241552A.007 | % | 60 - 130% | 92 |

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)-[ENV]AN312

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB268767.001 | Mercury | mg/kg | 0.05 | <0.05 |

## OC Pesticides in Soil

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

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB268742.001 | | Alpha BHC | mg/kg | 0.1 | <0.1 |
| | | Hexachlorobenzene (HCB) | mg/kg | 0.1 | <0.1 |
| | | Beta BHC | mg/kg | 0.1 | <0.1 |
| | | Lindane (gamma BHC) | mg/kg | 0.1 | <0.1 |
| | | Delta BHC | mg/kg | 0.1 | <0.1 |
| | | Heptachlor | mg/kg | 0.1 | <0.1 |
| | | Aldrin | mg/kg | 0.1 | <0.1 |
| | | Isodrin | mg/kg | 0.1 | <0.1 |
| | | Heptachlor epoxide | mg/kg | 0.1 | <0.1 |
| | | Gamma Chlordane | mg/kg | 0.1 | <0.1 |
| | | Alpha Chlordane | mg/kg | 0.1 | <0.1 |
| | | Alpha Endosulfan | mg/kg | 0.2 | <0.1 |
| | | p,p'-DDE | mg/kg | 0.1 | <0.1 |
| | | Dieldrin | mg/kg | 0.2 | <0.1 |
| | | Endrin | mg/kg | 0.2 | <0.1 |
| | | Beta Endosulfan | mg/kg | 0.2 | <0.1 |
| | | p,p'-DDD | mg/kg | 0.1 | <0.1 |
| | | Endrin aldehyde | mg/kg | 0.1 | <0.1 |
| | | Endosulfan sulphate | mg/kg | 0.1 | <0.1 |
| | | p,p'-DDT | mg/kg | 0.1 | <0.1 |
| | | Endrin ketone | mg/kg | 0.1 | <0.1 |
| | | Methoxychlor | mg/kg | 0.1 | <0.1 |
| | | Mirex | mg/kg | 0.1 | <0.1 |
| | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | % | - | 87 |

## OP Pesticides in Soil

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

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB268742.001 | | Azinphos-methyl (Guthion) | mg/kg | 0.2 | <0.2 |
| | | Bromophos Ethyl | mg/kg | 0.2 | <0.2 |
| | | Chlorpyrifos (Chlorpyrifos Ethyl) | mg/kg | 0.2 | <0.2 |
| | | Diazinon (Dimpylate) | mg/kg | 0.5 | <0.5 |
| | | Dichlorvos | mg/kg | 0.5 | <0.5 |
| | | Dimethoate | mg/kg | 0.5 | <0.5 |
| | | Ethion | mg/kg | 0.2 | <0.2 |
| | | Fenitrothion | mg/kg | 0.2 | <0.2 |
| | | Malathion | mg/kg | 0.2 | <0.2 |
| | | Methidathion | mg/kg | 0.5 | <0.5 |
| | | Parathion-ethyl (Parathion) | mg/kg | 0.2 | <0.2 |
| | Surrogates | 2-fluorobiphenyl (Surrogate) | % | - | 78 |
| | | d14-p-terphenyl (Surrogate) | % | - | 78 |

## PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB268742.001 | 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 |

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 |
|---|---|---|---|---|---|
| LB268742.001 | | 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) | % | - | 80 |
| | | 2-fluorobiphenyl (Surrogate) | % | - | 78 |
| | | d14-p-terphenyl (Surrogate) | % | - | 78 |

## PCBs in Soil

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

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB268742.001 | | Arochlor 1016 | mg/kg | 0.2 | <0.2 |
| | | Arochlor 1221 | mg/kg | 0.2 | <0.2 |
| | | Arochlor 1232 | mg/kg | 0.2 | <0.2 |
| | | Arochlor 1242 | mg/kg | 0.2 | <0.2 |
| | | Arochlor 1248 | mg/kg | 0.2 | <0.2 |
| | | Arochlor 1254 | mg/kg | 0.2 | <0.2 |
| | | Arochlor 1260 | mg/kg | 0.2 | <0.2 |
| | | Arochlor 1262 | mg/kg | 0.2 | <0.2 |
| | | Arochlor 1268 | mg/kg | 0.2 | <0.2 |
| | | Total PCBs (Arochlors) | mg/kg | 1 | <1 |
| | Surrogates | TCMX (Surrogate) | % | - | 89 |

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

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

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB268764.001 | | 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)-[ENV]AN403

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB268742.001 | | 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)-[ENV]AN433

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB268746.001 | 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) | % | - | 80 |
| | | d8-toluene (Surrogate) | % | - | 78 |
| | | Bromofluorobenzene (Surrogate) | % | - | 78 |
| | Totals | Total BTEX* | mg/kg | 0.6 | <0.6 |

## Volatile Petroleum Hydrocarbons in Soil

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

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB268746.001 | | TRH C6-C9 | mg/kg | 20 | <20 |
| | Surrogates | d4-1,2-dichloroethane (Surrogate) | % | - | 80 |

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

## Mercury in Soil

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

| Original | Duplicate | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|
| SE241552A.007 | LB268767.020 | Mercury | mg/kg | 0.05 | <0.05 | <0.05 | 200 | 0 |
| SE241585.010 | LB268767.014 | Mercury | mg/kg | 0.05 | <0.05 | <0.05 | 200 | 0 |

## Moisture Content

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

| Original | Duplicate | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|
| SE241552A.007 | LB268758.017 | % Moisture | %w/w | 1 | 54.6 | 54.2 | 32 | 1 |
| SE241585.010 | LB268758.011 | % Moisture | %w/w | 1 | 6.7 | 6.3 | 45 | 7 |

## OC Pesticides in Soil

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE241552A.007 | LB268742.020 | | Alpha BHC | mg/kg | 0.1 | <0.2 | <0.2 | 200 | 0 |
| | | | Hexachlorobenzene (HCB) | mg/kg | 0.1 | <0.2 | <0.2 | 200 | 0 |
| | | | Beta BHC | mg/kg | 0.1 | <0.2 | <0.2 | 200 | 0 |
| | | | Lindane (gamma BHC) | mg/kg | 0.1 | <0.2 | <0.2 | 200 | 0 |
| | | | Delta BHC | mg/kg | 0.1 | <0.2 | <0.2 | 200 | 0 |
| | | | Heptachlor | mg/kg | 0.1 | <0.2 | <0.2 | 200 | 0 |
| | | | Aldrin | mg/kg | 0.1 | <0.2 | <0.2 | 200 | 0 |
| | | | Isodrin | mg/kg | 0.1 | <0.2 | <0.2 | 200 | 0 |
| | | | Heptachlor epoxide | mg/kg | 0.1 | <0.2 | <0.2 | 200 | 0 |
| | | | Gamma Chlordane | mg/kg | 0.1 | <0.2 | <0.2 | 200 | 0 |
| | | | Alpha Chlordane | mg/kg | 0.1 | <0.2 | <0.2 | 200 | 0 |
| | | | Alpha Endosulfan | mg/kg | 0.2 | <0.4 | <0.4 | 200 | 0 |
| | | | o,p'-DDE* | mg/kg | 0.1 | <0.2 | <0.2 | 200 | 0 |
| | | | p,p'-DDE | mg/kg | 0.1 | <0.2 | <0.2 | 200 | 0 |
| | | | Dieldrin | mg/kg | 0.2 | <0.4 | <0.4 | 200 | 0 |
| | | | Endrin | mg/kg | 0.2 | <0.4 | <0.4 | 200 | 0 |
| | | | Beta Endosulfan | mg/kg | 0.2 | <0.4 | <0.4 | 200 | 0 |
| | | | o,p'-DDD* | mg/kg | 0.1 | <0.2 | <0.2 | 200 | 0 |
| | | | p,p'-DDD | mg/kg | 0.1 | <0.2 | <0.2 | 200 | 0 |
| | | | Endrin aldehyde | mg/kg | 0.1 | <0.2 | <0.2 | 200 | 0 |
| | | | Endosulfan sulphate | mg/kg | 0.1 | <0.2 | <0.2 | 200 | 0 |
| | | | o,p'-DDT* | mg/kg | 0.1 | <0.2 | <0.2 | 200 | 0 |
| | | | p,p'-DDT | mg/kg | 0.1 | <0.2 | <0.2 | 200 | 0 |
| | | | Endrin ketone | mg/kg | 0.1 | <0.2 | <0.2 | 200 | 0 |
| | | | Methoxychlor | mg/kg | 0.1 | <0.2 | <0.2 | 200 | 0 |
| | | | Mirex | mg/kg | 0.1 | <0.2 | <0.2 | 200 | 0 |
| | | | trans-Nonachlor | mg/kg | 0.1 | <0.2 | <0.2 | 200 | 0 |
| | | | Total CLP OC Pesticides | mg/kg | 1 | <2 | <2 | 200 | 0 |
| | | | Total OC VIC EPA | mg/kg | 1 | <2 | <2 | 200 | 0 |
| | | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | mg/kg | - | 0.14 | 0.15 | 30 | 2 |
| SE241585.010 | LB268742.014 | | Alpha BHC | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Hexachlorobenzene (HCB) | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Beta BHC | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Lindane (gamma BHC) | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Delta BHC | 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 |
| | | | Isodrin | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Heptachlor epoxide | mg/kg | 0.1 | <0.1 | <0.1 | 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 |
| | | | Alpha Endosulfan | mg/kg | 0.2 | <0.2 | <0.1 | 200 | 0 |
| | | | o,p'-DDE* | 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 | <0.1 | 200 | 0 |
| | | | Endrin | mg/kg | 0.2 | <0.2 | <0.1 | 200 | 0 |
| | | | Beta Endosulfan | mg/kg | 0.2 | <0.2 | <0.1 | 200 | 0 |
| | | | o,p'-DDD* | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | p,p'-DDD | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

## OC Pesticides in Soil (continued)

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE241585.010 | LB268742.014 | | Endrin aldehyde | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Endosulfan sulphate | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | o,p'-DDT* | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | p,p'-DDT | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Endrin ketone | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Methoxychlor | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Mirex | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | trans-Nonachlor | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Total CLP OC Pesticides | mg/kg | 1 | <1 | <1 | 200 | 0 |
| | | | Total OC VIC EPA | mg/kg | 1 | <1 | <1 | 200 | 0 |
| | | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | mg/kg | - | 0.15 | 0.14 | 30 | 7 |

## OP Pesticides in Soil

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE241552A.007 | LB268742.020 | | Azinphos-methyl (Guthion) | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Bromophos Ethyl | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Chlorpyrifos (Chlorpyrifos Ethyl) | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Diazinon (Dimpylate) | mg/kg | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | Dichlorvos | mg/kg | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | Dimethoate | mg/kg | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | Ethion | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Fenitrothion | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Malathion | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Methidathion | mg/kg | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | Parathion-ethyl (Parathion) | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Total OP Pesticides* | mg/kg | 1.7 | <1.7 | <1.7 | 200 | 0 |
| | | Surrogates | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.4 | 0.4 | 30 | 3 |
| | | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.4 | 0.4 | 30 | 0 |
| SE241585.010 | LB268742.014 | | Azinphos-methyl (Guthion) | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Bromophos Ethyl | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Chlorpyrifos (Chlorpyrifos Ethyl) | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Diazinon (Dimpylate) | mg/kg | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | Dichlorvos | mg/kg | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | Dimethoate | mg/kg | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | Ethion | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Fenitrothion | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Malathion | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Methidathion | mg/kg | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | Parathion-ethyl (Parathion) | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Total OP Pesticides* | mg/kg | 1.7 | <1.7 | <1.7 | 200 | 0 |
| | | Surrogates | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.4 | 0.4 | 30 | 0 |
| | | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.4 | 0.4 | 30 | 0 |

## PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

| Original | Duplicate | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|
| SE241552A.007 | LB268742.020 | 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 |

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

## PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE241552A.007 | LB268742.020 | | 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/2* | mg/kg | 0.2 | <0.2 | <0.2 | 175 | 0 |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=LOR* | mg/kg | 0.3 | <0.3 | <0.3 | 134 | 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 | - | 0.4 | 0.4 | 30 | 3 |
| | | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.4 | 0.4 | 30 | 0 |
| SE241585.010 | LB268742.014 | | 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/2* | mg/kg | 0.2 | <0.2 | <0.2 | 175 | 0 |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=LOR* | mg/kg | 0.3 | <0.3 | <0.3 | 134 | 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 |
| | | | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.4 | 0.4 | 30 | 0 |
| | | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.4 | 0.4 | 30 | 0 |

## PCBs in Soil

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE241552A.007 | LB268742.020 | | Arochlor 1016 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1221 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1232 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1242 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1248 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1254 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1260 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1262 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1268 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Total PCBs (Arochlors) | mg/kg | 1 | <1 | <1 | 200 | 0 |
| | | Surrogates | TCMX (Surrogate) | mg/kg | - | 0 | 0 | 30 | 2 |
| SE241585.010 | LB268742.014 | | Arochlor 1016 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1221 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1232 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1242 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1248 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1254 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1260 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1262 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Arochlor 1268 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Total PCBs (Arochlors) | mg/kg | 1 | <1 | <1 | 200 | 0 |
| | | Surrogates | TCMX (Surrogate) | mg/kg | - | 0 | 0 | 30 | 7 |

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

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

| Original | Duplicate | | Parameter | Units | LOR |
|---|---|---|---|---|---|

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

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

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE241552A.007 | LB268764.020 | | Arsenic, As | mg/kg | 1 | 2 | 2 | 78 | 11 |
| | | | Cadmium, Cd | mg/kg | 0.3 | <0.3 | <0.3 | 200 | 0 |
| | | | Chromium, Cr | mg/kg | 0.5 | 56 | 54 | 31 | 3 |
| | | | Copper, Cu | mg/kg | 0.5 | 18 | 17 | 33 | 3 |
| | | | Nickel, Ni | mg/kg | 0.5 | 31 | 30 | 32 | 5 |
| | | | Lead, Pb | mg/kg | 1 | 8 | 8 | 43 | 7 |
| | | | Zinc, Zn | mg/kg | 2 | 34 | 33 | 36 | 3 |
| SE241585.010 | LB268764.014 | | Arsenic, As | mg/kg | 1 | 3 | 3 | 61 | 8 |
| | | | Cadmium, Cd | mg/kg | 0.3 | <0.3 | <0.3 | 200 | 0 |
| | | | Chromium, Cr | mg/kg | 0.5 | 29 | 28 | 32 | 4 |
| | | | Copper, Cu | mg/kg | 0.5 | 7.8 | 7.1 | 37 | 10 |
| | | | Nickel, Ni | mg/kg | 0.5 | 4.8 | 5.7 | 40 | 18 |
| | | | Lead, Pb | mg/kg | 1 | 14 | 15 | 37 | 10 |
| | | | Zinc, Zn | mg/kg | 2 | 13 | 12 | 46 | 6 |

## TRH (Total Recoverable Hydrocarbons) in Soil

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE241552A.007 | LB268742.020 | | TRH C10-C14 | mg/kg | 20 | <40 | <40 | 139 | 0 |
| | | | TRH C15-C28 | mg/kg | 45 | <90 | <90 | 130 | 0 |
| | | | TRH C29-C36 | mg/kg | 45 | <90 | <90 | 102 | 0 |
| | | | TRH C37-C40 | mg/kg | 100 | <200 | <200 | 200 | 0 |
| | | | TRH C10-C36 Total | mg/kg | 110 | <220 | <220 | 135 | 0 |
| | | | TRH >C10-C40 Total (F bands) | mg/kg | 210 | <420 | <420 | 200 | 0 |
| | | TRH F Bands | TRH >C10-C16 | mg/kg | 25 | <50 | <50 | 153 | 0 |
| | | | TRH >C10-C16 - Naphthalene (F2) | mg/kg | 25 | <50 | <50 | 186 | 0 |
| | | | TRH >C16-C34 (F3) | mg/kg | 90 | <180 | <180 | 124 | 0 |
| | | | TRH >C34-C40 (F4) | mg/kg | 120 | <240 | <240 | 200 | 0 |
| SE241585.010 | LB268742.014 | | TRH C10-C14 | mg/kg | 20 | <20 | <20 | 162 | 0 |
| | | | TRH C15-C28 | mg/kg | 45 | <45 | <45 | 143 | 0 |
| | | | TRH C29-C36 | mg/kg | 45 | <45 | <45 | 141 | 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 | 147 | 0 |
| | | | TRH >C10-C16 - Naphthalene (F2) | mg/kg | 25 | <25 | <25 | 200 | 0 |
| | | | TRH >C16-C34 (F3) | mg/kg | 90 | <90 | <90 | 167 | 0 |
| | | | TRH >C34-C40 (F4) | mg/kg | 120 | <120 | <120 | 200 | 0 |

## VOC's in Soil

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE241552A.007 | LB268746.020 | Monocyclic | Benzene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Aromatic | 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 | - | 9.6 | 10.4 | 50 | 8 |
| | | | d8-toluene (Surrogate) | mg/kg | - | 9.2 | 10.2 | 50 | 10 |
| | | | Bromofluorobenzene (Surrogate) | mg/kg | - | 9.4 | 10.1 | 50 | 7 |
| | | Totals | Total BTEX* | mg/kg | 0.6 | <0.6 | <0.6 | 200 | 0 |
| | | | Total Xylenes* | mg/kg | 0.3 | <0.3 | <0.3 | 200 | 0 |
| SE241585.010 | LB268746.014 | Monocyclic | Benzene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Aromatic | Toluene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | 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 | - | 8.8 | 8.8 | 50 | 1 |
| | | | d8-toluene (Surrogate) | mg/kg | - | 8.6 | 8.6 | 50 | 0 |
| | | | Bromofluorobenzene (Surrogate) | mg/kg | - | 8.7 | 8.8 | 50 | 1 |
| | | Totals | Total BTEX* | mg/kg | 0.6 | <0.6 | <0.6 | 200 | 0 |
| | | | Total Xylenes* | mg/kg | 0.3 | <0.3 | <0.3 | 200 | 0 |

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE241552A.007 | LB268746.020 | | 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 | - | 9.6 | 10.4 | 30 | 8 |
| | | | d8-toluene (Surrogate) | mg/kg | - | 9.2 | 10.2 | 30 | 10 |
| | | | Bromofluorobenzene (Surrogate) | mg/kg | - | 9.4 | 10.1 | 30 | 7 |
| | | 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 |
| SE241585.010 | LB268746.014 | | TRH C6-C10 | mg/kg | 25 | <25 | <25 | 200 | 0 |
| | | | TRH C6-C9 | mg/kg | 20 | <20 | <20 | 200 | 0 |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 8.8 | 8.8 | 30 | 1 |
| | | | d8-toluene (Surrogate) | mg/kg | - | 8.6 | 8.6 | 30 | 0 |
| | | | Bromofluorobenzene (Surrogate) | mg/kg | - | 8.7 | 8.8 | 30 | 1 |
| | | 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 |

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 % |
|---|---|---|---|---|---|---|---|
| LB268767.002 | Mercury | mg/kg | 0.05 | 0.23 | 0.2 | 70 - 130 | 113 |

## OC Pesticides in Soil

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

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB268742.002 | | Delta BHC | mg/kg | 0.1 | 0.2 | 0.2 | 60 - 140 | 80 |
| | | Heptachlor | mg/kg | 0.1 | 0.2 | 0.2 | 60 - 140 | 84 |
| | | Aldrin | mg/kg | 0.1 | 0.2 | 0.2 | 60 - 140 | 82 |
| | | Dieldrin | mg/kg | 0.2 | 0.2 | 0.2 | 60 - 140 | 83 |
| | | Endrin | mg/kg | 0.2 | 0.2 | 0.2 | 60 - 140 | 80 |
| | | p,p'-DDT | mg/kg | 0.1 | 0.1 | 0.2 | 60 - 140 | 72 |
| | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | mg/kg | - | 0.13 | 0.15 | 40 - 130 | 89 |

## OP Pesticides in Soil

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

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB268742.002 | | Chlorpyrifos (Chlorpyrifos Ethyl) | mg/kg | 0.2 | 2.0 | 2 | 60 - 140 | 98 |
| | | Diazinon (Dimpylate) | mg/kg | 0.5 | 1.9 | 2 | 60 - 140 | 96 |
| | | Dichlorvos | mg/kg | 0.5 | 1.7 | 2 | 60 - 140 | 83 |
| | | Ethion | mg/kg | 0.2 | 1.7 | 2 | 60 - 140 | 83 |
| | Surrogates | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.4 | 0.5 | 40 - 130 | 74 |
| | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.4 | 0.5 | 40 - 130 | 74 |

## PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB268742.002 | | Naphthalene | mg/kg | 0.1 | 4.6 | 4 | 60 - 140 | 114 |
| | | Acenaphthylene | mg/kg | 0.1 | 3.8 | 4 | 60 - 140 | 96 |
| | | Acenaphthene | mg/kg | 0.1 | 4.7 | 4 | 60 - 140 | 118 |
| | | Phenanthrene | mg/kg | 0.1 | 4.8 | 4 | 60 - 140 | 120 |
| | | Anthracene | mg/kg | 0.1 | 4.7 | 4 | 60 - 140 | 117 |
| | | Fluoranthene | mg/kg | 0.1 | 4.6 | 4 | 60 - 140 | 114 |
| | | Pyrene | mg/kg | 0.1 | 4.5 | 4 | 60 - 140 | 113 |
| | | Benzo(a)pyrene | mg/kg | 0.1 | 4.4 | 4 | 60 - 140 | 110 |
| | Surrogates | d5-nitrobenzene (Surrogate) | mg/kg | - | 0.4 | 0.5 | 40 - 130 | 84 |
| | | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.4 | 0.5 | 40 - 130 | 74 |
| | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.4 | 0.5 | 40 - 130 | 74 |

## PCBs in Soil

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

| Sample Number | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|
| LB268742.002 | Arochlor 1260 | mg/kg | 0.2 | 0.5 | 0.4 | 60 - 140 | 116 |

## 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 % |
|---|---|---|---|---|---|---|---|
| LB268764.002 | Arsenic, As | mg/kg | 1 | 350 | 318.22 | 80 - 120 | 109 |
| | Cadmium, Cd | mg/kg | 0.3 | 4.7 | 4.81 | 70 - 130 | 97 |
| | Chromium, Cr | mg/kg | 0.5 | 41 | 38.31 | 80 - 120 | 106 |
| | Copper, Cu | mg/kg | 0.5 | 310 | 290 | 80 - 120 | 108 |
| | Nickel, Ni | mg/kg | 0.5 | 190 | 187 | 80 - 120 | 103 |
| | Lead, Pb | mg/kg | 1 | 93 | 89.9 | 80 - 120 | 103 |
| | Zinc, Zn | mg/kg | 2 | 280 | 273 | 80 - 120 | 102 |

## TRH (Total Recoverable Hydrocarbons) in Soil

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

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB268742.002 | | TRH C10-C14 | mg/kg | 20 | 47 | 40 | 60 - 140 | 117 |
| | | TRH C15-C28 | mg/kg | 45 | 49 | 40 | 60 - 140 | 122 |
| | | TRH C29-C36 | mg/kg | 45 | <45 | 40 | 60 - 140 | 78 |
| | TRH F Bands | TRH >C10-C16 | mg/kg | 25 | 47 | 40 | 60 - 140 | 116 |
| | | TRH >C16-C34 (F3) | mg/kg | 90 | <90 | 40 | 60 - 140 | 113 |
| | | TRH >C34-C40 (F4) | mg/kg | 120 | <120 | 20 | 60 - 140 | 71 |

## VOC's in Soil

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

| Sample Number | Parameter | Units | LOR |
|---|---|---|---|

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

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

## VOC's in Soil (continued)

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

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB268746.002 | Monocyclic | Benzene | mg/kg | 0.1 | 4.8 | 5 | 60 - 140 | 97 |
| | Aromatic | Toluene | mg/kg | 0.1 | 4.8 | 5 | 60 - 140 | 95 |
| | | Ethylbenzene | mg/kg | 0.1 | 4.8 | 5 | 60 - 140 | 96 |
| | | m/p-xylene | mg/kg | 0.2 | 9.3 | 10 | 60 - 140 | 93 |
| | | o-xylene | mg/kg | 0.1 | 4.9 | 5 | 60 - 140 | 98 |
| | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 9.9 | 10 | 70 - 130 | 99 |
| | | d8-toluene (Surrogate) | mg/kg | - | 9.5 | 10 | 70 - 130 | 95 |
| | | Bromofluorobenzene (Surrogate) | mg/kg | - | 9.0 | 10 | 70 - 130 | 90 |

## Volatile Petroleum Hydrocarbons in Soil

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

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB268746.002 | | TRH C6-C10 | mg/kg | 25 | 90 | 92.5 | 60 - 140 | 97 |
| | | TRH C6-C9 | mg/kg | 20 | 77 | 80 | 60 - 140 | 97 |
| | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 9.9 | 10 | 70 - 130 | 99 |
| | | Bromofluorobenzene (Surrogate) | mg/kg | - | 9.0 | 10 | 70 - 130 | 90 |
| | VPH F Bands | TRH C6-C10 minus BTEX (F1) | mg/kg | 25 | 61 | 62.5 | 60 - 140 | 98 |

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

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

## Mercury in Soil

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

| QC Sample | Sample Number | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|
| SE241585.001 | LB268767.004 | Mercury | mg/kg | 0.05 | 0.24 | 0.0176256 | 0.2 | 110 |

## OC Pesticides in Soil

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

| QC Sample | Sample Number | | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|---|
| SE241585.001 | LB268742.004 | | Alpha BHC | mg/kg | 0.1 | <0.1 | 0 | - | - |
| | | | Hexachlorobenzene (HCB) | mg/kg | 0.1 | <0.1 | 0.00157489264 | - | - |
| | | | Beta BHC | mg/kg | 0.1 | <0.1 | 0 | - | - |
| | | | Lindane (gamma BHC) | mg/kg | 0.1 | <0.1 | 0 | - | - |
| | | | Delta BHC | mg/kg | 0.1 | 0.2 | 0.00804667333 | 0.2 | 84 |
| | | | Heptachlor | mg/kg | 0.1 | 0.2 | 0 | 0.2 | 92 |
| | | | Aldrin | mg/kg | 0.1 | 0.2 | 0.00035287191 | 0.2 | 90 |
| | | | Isodrin | mg/kg | 0.1 | <0.1 | 0.00105317671 | - | - |
| | | | Heptachlor epoxide | mg/kg | 0.1 | <0.1 | 0 | - | - |
| | | | Gamma Chlordane | mg/kg | 0.1 | <0.1 | 0 | - | - |
| | | | Alpha Chlordane | mg/kg | 0.1 | <0.1 | 0.00028114363 | - | - |
| | | | Alpha Endosulfan | mg/kg | 0.2 | <0.1 | 0.00028207118 | - | - |
| | | | o,p'-DDE* | mg/kg | 0.1 | <0.1 | 0.00028196679 | - | - |
| | | | p,p'-DDE | mg/kg | 0.1 | <0.1 | 0.00140664278 | - | - |
| | | | Dieldrin | mg/kg | 0.2 | 0.2 | 0.00224465051 | 0.2 | 89 |
| | | | Endrin | mg/kg | 0.2 | 0.2 | 0.00274921940 | 0.2 | 86 |
| | | | Beta Endosulfan | mg/kg | 0.2 | <0.1 | 0 | - | - |
| | | | o,p'-DDD* | mg/kg | 0.1 | <0.1 | 0 | - | - |
| | | | p,p'-DDD | mg/kg | 0.1 | <0.1 | 0 | - | - |
| | | | Endrin aldehyde | mg/kg | 0.1 | <0.1 | 0.00360210558 | - | - |
| | | | Endosulfan sulphate | mg/kg | 0.1 | <0.1 | 0.00061314995 | - | - |
| | | | o,p'-DDT* | mg/kg | 0.1 | <0.1 | 0.00066049302 | - | - |
| | | | p,p'-DDT | mg/kg | 0.1 | 0.2 | 0.00061059724 | 0.2 | 79 |
| | | | Endrin ketone | mg/kg | 0.1 | <0.1 | 0.00173255843 | - | - |
| | | | Methoxychlor | mg/kg | 0.1 | <0.1 | 0.00074807617 | - | - |
| | | | Mirex | mg/kg | 0.1 | <0.1 | 0.00180830205 | - | - |
| | | | trans-Nonachlor | mg/kg | 0.1 | <0.1 | 0.00091240185 | - | - |
| | | | Total CLP OC Pesticides | mg/kg | 1 | 1 | 0 | - | - |
| | | | Total OC VIC EPA | mg/kg | 1 | 1 | 0 | - | - |
| | | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | mg/kg | - | 0.14 | 0.13419397533 | - | 91 |

## OP Pesticides in Soil

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

| QC Sample | Sample Number | | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|---|
| SE241585.001 | LB268742.004 | | Azinphos-methyl (Guthion) | mg/kg | 0.2 | <0.2 | 0 | - | - |
| | | | Bromophos Ethyl | mg/kg | 0.2 | <0.2 | 0 | - | - |
| | | | Chlorpyrifos (Chlorpyrifos Ethyl) | mg/kg | 0.2 | 1.8 | 0 | 2 | 90 |
| | | | Diazinon (Dimpylate) | mg/kg | 0.5 | 1.8 | 0 | 2 | 90 |
| | | | Dichlorvos | mg/kg | 0.5 | 1.5 | 0 | 2 | 77 |
| | | | Dimethoate | mg/kg | 0.5 | <0.5 | 0 | - | - |
| | | | Ethion | mg/kg | 0.2 | 1.5 | 0 | 2 | 77 |
| | | | Fenitrothion | mg/kg | 0.2 | <0.2 | 0 | - | - |
| | | | Malathion | mg/kg | 0.2 | <0.2 | 0 | - | - |
| | | | Methidathion | mg/kg | 0.5 | <0.5 | 0 | - | - |
| | | | Parathion-ethyl (Parathion) | mg/kg | 0.2 | <0.2 | 0 | - | - |
| | | | Total OP Pesticides* | mg/kg | 1.7 | 6.7 | 0 | - | - |
| | | Surrogates | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.4 | 0.37 | - | 72 |
| | | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.4 | 0.36 | - | 72 |

## PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

| QC Sample | Sample Number | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|
| SE241585.001 | LB268742.004 | Naphthalene | mg/kg | 0.1 | 4.5 | 0 | 4 | 113 |
| | | 2-methylnaphthalene | mg/kg | 0.1 | <0.1 | 0 | - | - |
| | | 1-methylnaphthalene | mg/kg | 0.1 | <0.1 | 0 | - | - |
| | | Acenaphthylene | mg/kg | 0.1 | 3.7 | 0 | 4 | 94 |
| | | Acenaphthene | mg/kg | 0.1 | 4.6 | 0 | 4 | 114 |
| | | Fluorene | mg/kg | 0.1 | <0.1 | 0 | - | - |

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

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

## PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

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

| QC Sample | Sample Number | | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|---|
| SE241585.001 | LB268742.004 | | Phenanthrene | mg/kg | 0.1 | 4.6 | 0 | 4 | 116 |
| | | | Anthracene | mg/kg | 0.1 | 4.6 | 0 | 4 | 114 |
| | | | Fluoranthene | mg/kg | 0.1 | 4.4 | 0 | 4 | 110 |
| | | | Pyrene | mg/kg | 0.1 | 4.4 | 0 | 4 | 110 |
| | | | Benzo(a)anthracene | mg/kg | 0.1 | <0.1 | 0 | - | - |
| | | | Chrysene | mg/kg | 0.1 | <0.1 | 0 | - | - |
| | | | Benzo(b&j)fluoranthene | mg/kg | 0.1 | <0.1 | 0 | - | - |
| | | | Benzo(k)fluoranthene | mg/kg | 0.1 | <0.1 | 0 | - | - |
| | | | Benzo(a)pyrene | mg/kg | 0.1 | 4.3 | 0 | 4 | 109 |
| | | | Indeno(1,2,3-cd)pyrene | mg/kg | 0.1 | <0.1 | 0 | - | - |
| | | | Dibenzo(ah)anthracene | mg/kg | 0.1 | <0.1 | 0 | - | - |
| | | | Benzo(ghi)perylene | mg/kg | 0.1 | <0.1 | 0 | - | - |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=0* | TEQ (mg/kg) | 0.2 | 4.3 | 0 | - | - |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=LOR/2* | TEQ (mg/kg) | 0.2 | 4.4 | 0.121 | - | - |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=LOR* | TEQ (mg/kg) | 0.3 | 4.5 | 0.242 | - | - |
| | | | Total PAH (18) | mg/kg | 0.8 | 35 | 0 | - | - |
| | | Surrogates | d5-nitrobenzene (Surrogate) | mg/kg | - | 0.4 | 0.37 | - | 82 |
| | | | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.4 | 0.37 | - | 72 |
| | | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.4 | 0.36 | - | 72 |

## PCBs in Soil

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

| QC Sample | Sample Number | | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|---|
| SE241585.001 | LB268742.004 | | Arochlor 1016 | mg/kg | 0.2 | <0.2 | 0 | - | - |
| | | | Arochlor 1221 | mg/kg | 0.2 | <0.2 | 0 | - | - |
| | | | Arochlor 1232 | mg/kg | 0.2 | <0.2 | 0 | - | - |
| | | | Arochlor 1242 | mg/kg | 0.2 | <0.2 | 0 | - | - |
| | | | Arochlor 1248 | mg/kg | 0.2 | <0.2 | 0 | - | - |
| | | | Arochlor 1254 | mg/kg | 0.2 | <0.2 | 0 | - | - |
| | | | Arochlor 1260 | mg/kg | 0.2 | 0.5 | 0 | 0.4 | 124 |
| | | | Arochlor 1262 | mg/kg | 0.2 | <0.2 | 0 | - | - |
| | | | Arochlor 1268 | mg/kg | 0.2 | <0.2 | 0 | - | - |
| | | | Total PCBs (Arochlors) | mg/kg | 1 | <1 | 0 | - | - |
| | | Surrogates | TCMX (Surrogate) | mg/kg | - | 0 | 0.13720421135 | - | 93 |

## 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% |
|---|---|---|---|---|---|---|---|---|
| SE241585.001 | LB268764.004 | Arsenic, As | mg/kg | 1 | 49 | 9.38086184873 | 50 | 78 |
| | | Cadmium, Cd | mg/kg | 0.3 | 44 | 0.15900504201 | 50 | 88 |
| | | Chromium, Cr | mg/kg | 0.5 | 60 | 15.33941243697 | 50 | 90 |
| | | Copper, Cu | mg/kg | 0.5 | 56 | 15.52455529411 | 50 | 82 |
| | | Nickel, Ni | mg/kg | 0.5 | 56 | 13.65962218487 | 50 | 85 |
| | | Lead, Pb | mg/kg | 1 | 73 | 30.71585344537 | 50 | 85 |
| | | Zinc, Zn | mg/kg | 2 | 73 | 32.9928927731( | 50 | 80 |

## TRH (Total Recoverable Hydrocarbons) in Soil

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

| QC Sample | Sample Number | | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|---|
| SE241585.001 | LB268742.004 | | TRH C10-C14 | mg/kg | 20 | 51 | 5.94417478991 | 40 | 113 |
| | | | TRH C15-C28 | mg/kg | 45 | 50 | 7.43620840336 | 40 | 107 |
| | | | TRH C29-C36 | mg/kg | 45 | <45 | 2.77932100840 | 40 | 87 |
| | | | TRH C10-C36 Total | mg/kg | 110 | <110 | 0 | - | - |
| | | | TRH >C10-C40 Total (F bands) | mg/kg | 210 | <210 | 0 | - | - |
| | | TRH F Bands | TRH >C10-C16 | mg/kg | 25 | 52 | 5.43884369747 | 40 | 116 |
| | | | TRH >C10-C16 - Naphthalene (F2) | mg/kg | 25 | 52 | 0 | - | - |
| | | | TRH >C16-C34 (F3) | mg/kg | 90 | <90 | 9.22664873949 | 40 | 102 |
| | | | TRH >C34-C40 (F4) | mg/kg | 120 | <120 | 1.09561008403 | - | - |

## VOC's in Soil

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

| QC Sample | Sample Number | | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|---|
| SE241585.001 | LB268746.004 | Monocyclic Aromatic | Benzene | mg/kg | 0.1 | 5.3 | 0.00555750766 | 5 | 105 |
| | | | Toluene | mg/kg | 0.1 | 5.2 | 0.02159416107 | 5 | 103 |
| | | | Ethylbenzene | mg/kg | 0.1 | 5.3 | 0.01705122077 | 5 | 106 |
| | | | m/p-xylene | mg/kg | 0.2 | 10 | 0.04746184499 | 10 | 102 |
| | | | o-xylene | mg/kg | 0.1 | 5.5 | 0.01926281824 | 5 | 109 |

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

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

## VOC's in Soil (continued)

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

| QC Sample | Sample Number | | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|---|
| SE241585.001 | LB268746.004 | Polycyclic | Naphthalene (VOC)* | mg/kg | 0.1 | <0.1 | 0.00328497481 | - | - |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 10.3 | 8.91923671643 | 10 | 103 |
| | | | d8-toluene (Surrogate) | mg/kg | - | 9.9 | 8.81653247665 | 10 | 99 |
| | | | Bromofluorobenzene (Surrogate) | mg/kg | - | 9.6 | 9.03272013374 | 10 | 96 |
| | | Totals | Total BTEX* | mg/kg | 0.6 | 31 | 0 | - | - |
| | | | Total Xylenes* | mg/kg | 0.3 | 16 | 0.06672466324 | - | - |

## Volatile Petroleum Hydrocarbons in Soil

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

| QC Sample | Sample Number | | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|---|
| SE241585.001 | LB268746.004 | | TRH C6-C10 | mg/kg | 25 | 94 | 0.73653031067 | 92.5 | 100 |
| | | | TRH C6-C9 | mg/kg | 20 | 81 | 0.61317899954 | 80 | 100 |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 10.3 | 8.91923671643 | 10 | 103 |
| | | | d8-toluene (Surrogate) | mg/kg | - | 9.9 | 8.81653247665 | 10 | 99 |
| | | | Bromofluorobenzene (Surrogate) | mg/kg | - | 9.6 | 9.03272013374 | - | 96 |
| | | VPH F | Benzene (F0) | mg/kg | 0.1 | 5.3 | 0.00555750766 | - | - |
| | | Bands | TRH C6-C10 minus BTEX (F1) | mg/kg | 25 | 62 | 0.73653031067 | 62.5 | 98 |

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The original result is the analyte concentration of the matrix spike. The Duplicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the

No matrix spike duplicates were required for this job.

Samples analysed as received.

Solid samples expressed on a dry weight basis.

QC criteria are subject to internal review according to the SGS QA/QC plan and may be provided on request or alternatively can be found here: https://www.sgs.com.au/~/media/Local/Australia/Documents/Technical Documents/MP-AU-ENV-QU-022 QA QC Plan.pdf

| | |
|---|---|
| * | NATA accreditation does not cover the performance of this service. |
| ** | Indicative data, theoretical holding time exceeded. |
| *** | Indicates that both * and ** apply. |
| - | Sample not analysed for this analyte. |
| IS | Insufficient sample for analysis. |
| LNR | Sample listed, but not received. |
| LOR | Limit of reporting. |
| QFH | QC result is above the upper tolerance. |
| QFL | QC result is below the lower tolerance. |
| ① | At least 2 of 3 surrogates are within acceptance criteria. |
| ② | RPD failed acceptance criteria due to sample heterogeneity. |
| ③ | Results less than 5 times LOR preclude acceptance criteria for RPD. |
| ④ | Recovery failed acceptance criteria due to matrix interference. |
| ⑤ | Recovery failed acceptance criteria due to the presence of significant concentration of analyte (i.e. the concentration of analyte exceeds the spike level). |
| ⑥ | LOR was raised due to sample matrix interference. |
| ⑦ | LOR was raised due to dilution of significantly high concentration of analyte in sample. |
| ⑧ | Reanalysis of sample in duplicate confirmed sample heterogeneity and inconsistency of results. |
| ⑨ | Recovery failed acceptance criteria due to sample heterogeneity. |
| ⑩ | LOR was raised due to high conductivity of the sample (required dilution). |
| † | Refer to relevant report comments for further information. |

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E-MAILED
12/1/23 @ 2:10pm

# SGS

# CHAIN OF CUSTODY & ANALYSIS REQUEST

Page_____of ____


**SGS Environmental Services**

**Unit 16, 33 Maddox Street**

**Alexandria NSW 2015**

**Telephone No: (02) 85940400**

**Facsimile No: (02) 85940499**

**Email:** au.samplereceipt.sydney@sgs.com


Company Name: K2 Consulting Group

Address: Suite 222 (Building B)

20 Lexington Drive, Bella Vista NSW 2153

Contact Name: Kannan Kaliappan

Project Name/No: ST-01-1533 (515 Crookwell Road, Kingsdale)

Purchase Order No:

Results Required By:

Telephone: 0449 669 559

Facsimile:

Email Results: kannan@k2consultinggroup.com.au; sirish@k2consultinggroup.com.au

| Client Sample ID | Date Sampled | Lab sample ID | CL17 (BTEXN/TRH/PAH/OC/OP/PCB/8HM) |
|---|---|---|---|
| ST-01-1533-WD1 (Sediment) | 10/01/2023 | 7 | X |

SGS EHS Alexandria Laboratory

SE241552A COC

Received: 12 – Jan – 2023

| | | | |
|---|---|---|---|
| Relinquished By: Sirish Baniya | Date/Time: 11/01/2023 | Received By: | Date/Time 12/1/23 @ 5:50 |
| Relinquished By: | Date/Time: | Received By: | Date/Time |
| Samples Intact: Yes/ No | Temperature: Ambient / Chilled | Sample Cooler Sealed: Yes/ No | Laboratory Quotation No: |
| | Comments: | | |

source:SE_Autoscan.pdf page:1 SGS Ref: SE241552A_COC

# ANALYTICAL REPORT

Accreditation No. 2562

| CLIENT DETAILS | | LABORATORY DETAILS | |
|---|---|---|---|
| Contact | Kannan Kaliappan | Manager | Huong Crawford |
| Client | K2 CONSULTING GROUP | Laboratory | SGS Alexandria Environmental |
| Address | SUITE 222, 20B LEXINGTON DRIVE<br>BELLA VISTA NSW 2153 | Address | Unit 16, 33 Maddox St<br>Alexandria NSW 2015 |
| Telephone | 61 8 00 523 000 | Telephone | +61 2 8594 0400 |
| Facsimile | (Not specified) | Facsimile | +61 2 8594 0499 |
| Email | kannan@k2consultinggroup.com.au | Email | au.environmental.sydney@sgs.com |
| Project | **ST-01-1533(515 Crookwell Road, Kingsdale** | SGS Reference | **SE241552 R0** |
| Order Number | **ST-01-1533** | Date Received | 11 Jan 2023 |
| Samples | 6 | Date Reported | 18 Jan 2023 |

COMMENTS

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

SIGNATORIES

Akheeqar BENIAMEEN
Chemist

Dong LIANG
Metals/Inorganics Team Leader

Ly Kim HA
Organic Section Head

Teresa NGUYEN
Organic Chemist

| Parameter | Units | LOR | Sample Number: SE241552.001<br>Sample Matrix: Water<br>Sample Date: 10 Jan 2023<br>Sample Name: ST-01-1533-GW4 | SE241552.002<br>Water<br>10 Jan 2023<br>ST-01-1533-GW5 | SE241552.003<br>Water<br>10 Jan 2023<br>ST-01-1533-WD1 | SE241552.004<br>Water<br>10 Jan 2023<br>ST-01-1533-WD2 |
|---|---|---|---|---|---|---|
| **VOCs in Water Method: AN433 Tested: 17/1/2023** | | | | | | |
| Monocyclic Aromatic Hydrocarbons | | | | | | |
| Benzene | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Toluene | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Ethylbenzene | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| m/p-xylene | µg/L | 1 | <1 | <1 | <1 | <1 |
| o-xylene | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Polycyclic VOCs | | | | | | |
| Naphthalene (VOC)* | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Surrogates | | | | | | |
| d4-1,2-dichloroethane (Surrogate) | % | - | **95** | **96** | **95** | **93** |
| d8-toluene (Surrogate) | % | - | **99** | **101** | **99** | **100** |
| Bromofluorobenzene (Surrogate) | % | - | **108** | **108** | **105** | **105** |
| Totals | | | | | | |
| Total BTEX | µg/L | 3 | <3 | <3 | <3 | <3 |
| Total Xylenes | µg/L | 1.5 | <1.5 | <1.5 | <1.5 | <1.5 |
| **Volatile Petroleum Hydrocarbons in Water Method: AN433 Tested: 17/1/2023** | | | | | | |
| TRH C6-C10 | µg/L | 50 | <50 | <50 | <50 | <50 |
| TRH C6-C9 | µg/L | 40 | <40 | <40 | <40 | <40 |
| Surrogates | | | | | | |
| d4-1,2-dichloroethane (Surrogate) | % | - | **95** | **96** | **95** | **93** |
| d8-toluene (Surrogate) | % | - | **99** | **101** | **99** | **100** |
| Bromofluorobenzene (Surrogate) | % | - | **108** | **108** | **105** | **105** |
| VPH F Bands | | | | | | |
| Benzene (F0) | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| TRH C6-C10 minus BTEX (F1) | µg/L | 50 | <50 | <50 | <50 | <50 |

| Parameter | Units | LOR | Sample Number: SE241552.001<br>Sample Matrix: Water<br>Sample Date: 10 Jan 2023<br>Sample Name: ST-01-1533-GW4 | SE241552.002<br>Water<br>10 Jan 2023<br>ST-01-1533-GW5 | SE241552.003<br>Water<br>10 Jan 2023<br>ST-01-1533-WD1 | SE241552.004<br>Water<br>10 Jan 2023<br>ST-01-1533-WD2 |
|---|---|---|---|---|---|---|
| **TRH (Total Recoverable Hydrocarbons) in Water Method: AN403 Tested: 12/1/2023** | | | | | | |
| TRH C10-C14 | µg/L | 50 | <50 | <50 | <50 | <50 |
| TRH C15-C28 | µg/L | 200 | <200 | <200 | <200 | <200 |
| TRH C29-C36 | µg/L | 200 | <200 | <200 | <200 | <200 |
| TRH C10-C40 | µg/L | 320 | - | - | - | - |
| TRH F Bands | | | | | | |
| TRH >C10-C16 | µg/L | 60 | <60 | <60 | <60 | <60 |
| TRH >C10-C16 - Naphthalene (F2) | µg/L | 60 | <60 | <60 | <60 | <60 |
| TRH >C16-C34 (F3) | µg/L | 500 | <500 | <500 | <500 | <500 |
| TRH >C34-C40 (F4) | µg/L | 500 | <500 | <500 | <500 | <500 |
| **PAH (Polynuclear Aromatic Hydrocarbons) in Water Method: AN420 Tested: 12/1/2023** | | | | | | |
| Naphthalene | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 2-methylnaphthalene | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 1-methylnaphthalene | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Acenaphthylene | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Acenaphthene | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Fluorene | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Phenanthrene | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Anthracene | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Fluoranthene | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Pyrene | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(a)anthracene | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Chrysene | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(b&j)fluoranthene | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(k)fluoranthene | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(a)pyrene | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Indeno(1,2,3-cd)pyrene | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Dibenzo(ah)anthracene | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(ghi)perylene | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Total PAH (18) | µg/L | 1 | <1 | <1 | <1 | <1 |
| Surrogates | | | | | | |
| d5-nitrobenzene (Surrogate) | % | - | **48** | **76** | **46** | **60** |
| 2-fluorobiphenyl (Surrogate) | % | - | **50** | **80** | **52** | **68** |
| d14-p-terphenyl (Surrogate) | % | - | **72** | **92** | **66** | **88** |
| **OC Pesticides in Water Method: AN420 Tested: 12/1/2023** | | | | | | |
| Alpha BHC | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Hexachlorobenzene (HCB) | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Beta BHC | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Lindane (gamma BHC) | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Delta BHC | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Heptachlor | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Aldrin | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Isodrin | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Heptachlor epoxide | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Gamma Chlordane | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Alpha Chlordane | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Alpha Endosulfan | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| o,p'-DDE | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| p,p'-DDE | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Dieldrin | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Endrin | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Beta Endosulfan | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| o,p'-DDD | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| p,p'-DDD | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Endrin aldehyde | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Endosulfan sulphate | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| o,p'-DDT | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| p,p'-DDT | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |

| Parameter | Units | LOR | Sample Number: SE241552.001<br>Sample Matrix: Water<br>Sample Date: 10 Jan 2023<br>Sample Name: ST-01-1533-GW4 | SE241552.002<br>Water<br>10 Jan 2023<br>ST-01-1533-GW5 | SE241552.003<br>Water<br>10 Jan 2023<br>ST-01-1533-WD1 | SE241552.004<br>Water<br>10 Jan 2023<br>ST-01-1533-WD2 |
|---|---|---|---|---|---|---|
| **OC Pesticides in Water Method: AN420 Tested: 12/1/2023 (continued)** | | | | | | |
| Endrin ketone | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Methoxychlor | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Mirex | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| trans-Nonachlor | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Total OC | µg/L | 1 | <1 | <1 | <1 | <1 |
| Total OC | µg/L | 1 | <1 | <1 | <1 | <1 |
| Surrogates | | | | | | |
| Tetrachloro-m-xylene (TCMX) (Surrogate) | % | - | **59** | **83** | **55** | **76** |
| **OP Pesticides in Water Method: AN420 Tested: 12/1/2023** | | | | | | |
| Azinphos-methyl | µg/L | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Bromophos Ethyl | µg/L | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Chlorpyrifos (Chlorpyrifos Ethyl) | µg/L | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Diazinon (Dimpylate) | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Dichlorvos | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Dimethoate | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Ethion | µg/L | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Fenitrothion | µg/L | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Malathion | µg/L | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Methidathion | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Parathion-ethyl (Parathion) | µg/L | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Surrogates | | | | | | |
| 2-fluorobiphenyl (Surrogate) | % | - | **50** | **80** | **52** | **68** |
| d14-p-terphenyl (Surrogate) | % | - | **72** | **92** | **66** | **88** |
| **PCBs in Water Method: AN420 Tested: 12/1/2023** | | | | | | |
| Arochlor 1016 | µg/L | 1 | <1 | <1 | <1 | <1 |
| Arochlor 1221 | µg/L | 1 | <1 | <1 | <1 | <1 |
| Arochlor 1232 | µg/L | 1 | <1 | <1 | <1 | <1 |
| Arochlor 1242 | µg/L | 1 | <1 | <1 | <1 | <1 |
| Arochlor 1248 | µg/L | 1 | <1 | <1 | <1 | <1 |
| Arochlor 1254 | µg/L | 1 | <1 | <1 | <1 | <1 |
| Arochlor 1260 | µg/L | 1 | <1 | <1 | <1 | <1 |
| Arochlor 1262 | µg/L | 1 | <1 | <1 | <1 | <1 |
| Arochlor 1268 | µg/L | 1 | <1 | <1 | <1 | <1 |
| Total Arochlors* | µg/L | 5 | <5 | <5 | <5 | <5 |
| Surrogates | | | | | | |
| TCMX (Surrogate) | % | - | **56** | **79** | **51** | **72** |

| Parameter | Units | LOR | Sample Number: SE241552.001<br>Sample Matrix: Water<br>Sample Date: 10 Jan 2023<br>Sample Name: ST-01-1533-GW4 | SE241552.002<br>Water<br>10 Jan 2023<br>ST-01-1533-GW5 | SE241552.003<br>Water<br>10 Jan 2023<br>ST-01-1533-WD1 | SE241552.004<br>Water<br>10 Jan 2023<br>ST-01-1533-WD2 |
|---|---|---|---|---|---|---|
| **Trace Metals (Dissolved) in Water by ICPMS Method: AN318 Tested: 16/1/2023** | | | | | | |
| Arsenic | µg/L | 1 | <1 | <1 | **2** | **2** |
| Cadmium | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Chromium | µg/L | 1 | <1 | **11** | **2** | <1 |
| Copper | µg/L | 1 | <1 | <1 | **1** | <1 |
| Lead | µg/L | 1 | <1 | <1 | <1 | <1 |
| Nickel | µg/L | 1 | **2** | **1** | **5** | **1** |
| Zinc | µg/L | 5 | <5 | <5 | <5 | <5 |
| **Mercury (dissolved) in Water Method: AN311(Perth)/AN312 Tested: 16/1/2023** | | | | | | |
| Mercury | mg/L | 0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 |

| Parameter | Units | LOR | Sample Number: SE241552.005<br>Sample Matrix: Water<br>Sample Date: 10 Jan 2023<br>Sample Name: Trip Spike | Sample Number: SE241552.006<br>Sample Matrix: Water<br>Sample Date: 10 Jan 2023<br>Sample Name: Trip Blank |
|---|---|---|---|---|
| **VOCs in Water Method: AN433 Tested: 17/1/2023** | | | | |
| Monocyclic Aromatic Hydrocarbons | | | | |
| Benzene | µg/L | 0.5 | [99%] | <0.5 |
| Toluene | µg/L | 0.5 | [99%] | <0.5 |
| Ethylbenzene | µg/L | 0.5 | [97%] | <0.5 |
| m/p-xylene | µg/L | 1 | [98%] | <1 |
| o-xylene | µg/L | 0.5 | [98%] | <0.5 |
| Polycyclic VOCs | | | | |
| Naphthalene (VOC)* | µg/L | 0.5 | [96%] | <0.5 |
| Surrogates | | | | |
| d4-1,2-dichloroethane (Surrogate) | % | - | **102** | **95** |
| d8-toluene (Surrogate) | % | - | **103** | **98** |
| Bromofluorobenzene (Surrogate) | % | - | **108** | **107** |
| Totals | | | | |
| Total BTEX | µg/L | 3 | - | <3 |
| Total Xylenes | µg/L | 1.5 | - | <1.5 |
| **Volatile Petroleum Hydrocarbons in Water Method: AN433 Tested: 17/1/2023** | | | | |
| TRH C6-C10 | µg/L | 50 | - | <50 |
| TRH C6-C9 | µg/L | 40 | - | <40 |
| Surrogates | | | | |
| d4-1,2-dichloroethane (Surrogate) | % | - | - | **95** |
| d8-toluene (Surrogate) | % | - | - | **98** |
| Bromofluorobenzene (Surrogate) | % | - | - | **107** |
| VPH F Bands | | | | |
| Benzene (F0) | µg/L | 0.5 | - | <0.5 |
| TRH C6-C10 minus BTEX (F1) | µg/L | 50 | - | <50 |

| Parameter | Units | LOR | Sample Number: SE241552.005<br>Sample Matrix: Water<br>Sample Date: 10 Jan 2023<br>Sample Name: Trip Spike | Sample Number: SE241552.006<br>Sample Matrix: Water<br>Sample Date: 10 Jan 2023<br>Sample Name: Trip Blank |
|---|---|---|---|---|
| **TRH (Total Recoverable Hydrocarbons) in Water Method: AN403 Tested: 13/1/2023** | | | | |
| TRH C10-C14 | µg/L | 50 | - | - |
| TRH C15-C28 | µg/L | 200 | - | - |
| TRH C29-C36 | µg/L | 200 | - | - |
| TRH C10-C40 | µg/L | 320 | - | - |
| TRH F Bands | | | | |
| TRH >C10-C16 | µg/L | 60 | - | - |
| TRH >C10-C16 - Naphthalene (F2) | µg/L | 60 | - | - |
| TRH >C16-C34 (F3) | µg/L | 500 | - | - |
| TRH >C34-C40 (F4) | µg/L | 500 | - | - |
| **PAH (Polynuclear Aromatic Hydrocarbons) in Water Method: AN420 Tested: 17/1/2023** | | | | |
| Naphthalene | µg/L | 0.1 | - | - |
| 2-methylnaphthalene | µg/L | 0.1 | - | - |
| 1-methylnaphthalene | µg/L | 0.1 | - | - |
| Acenaphthylene | µg/L | 0.1 | - | - |
| Acenaphthene | µg/L | 0.1 | - | - |
| Fluorene | µg/L | 0.1 | - | - |
| Phenanthrene | µg/L | 0.1 | - | - |
| Anthracene | µg/L | 0.1 | - | - |
| Fluoranthene | µg/L | 0.1 | - | - |
| Pyrene | µg/L | 0.1 | - | - |
| Benzo(a)anthracene | µg/L | 0.1 | - | - |
| Chrysene | µg/L | 0.1 | - | - |
| Benzo(b&j)fluoranthene | µg/L | 0.1 | - | - |
| Benzo(k)fluoranthene | µg/L | 0.1 | - | - |
| Benzo(a)pyrene | µg/L | 0.1 | - | - |
| Indeno(1,2,3-cd)pyrene | µg/L | 0.1 | - | - |
| Dibenzo(ah)anthracene | µg/L | 0.1 | - | - |
| Benzo(ghi)perylene | µg/L | 0.1 | - | - |
| Total PAH (18) | µg/L | 1 | - | - |
| Surrogates | | | | |
| d5-nitrobenzene (Surrogate) | % | - | - | - |
| 2-fluorobiphenyl (Surrogate) | % | - | - | - |
| d14-p-terphenyl (Surrogate) | % | - | - | - |
| **OC Pesticides in Water Method: AN420 Tested: 17/1/2023** | | | | |
| Alpha BHC | µg/L | 0.1 | - | - |
| Hexachlorobenzene (HCB) | µg/L | 0.1 | - | - |
| Beta BHC | µg/L | 0.1 | - | - |
| Lindane (gamma BHC) | µg/L | 0.1 | - | - |
| Delta BHC | µg/L | 0.1 | - | - |
| Heptachlor | µg/L | 0.1 | - | - |
| Aldrin | µg/L | 0.1 | - | - |
| Isodrin | µg/L | 0.1 | - | - |
| Heptachlor epoxide | µg/L | 0.1 | - | - |
| Gamma Chlordane | µg/L | 0.1 | - | - |
| Alpha Chlordane | µg/L | 0.1 | - | - |
| Alpha Endosulfan | µg/L | 0.1 | - | - |
| o,p'-DDE | µg/L | 0.1 | - | - |
| p,p'-DDE | µg/L | 0.1 | - | - |
| Dieldrin | µg/L | 0.1 | - | - |
| Endrin | µg/L | 0.1 | - | - |
| Beta Endosulfan | µg/L | 0.1 | - | - |
| o,p'-DDD | µg/L | 0.1 | - | - |
| p,p'-DDD | µg/L | 0.1 | - | - |
| Endrin aldehyde | µg/L | 0.1 | - | - |

| Parameter | Units | LOR | Sample Number<br>Sample Matrix<br>Sample Date<br>Sample Name<br>SE241552.005<br>Water<br>10 Jan 2023<br>Trip Spike | SE241552.006<br>Water<br>10 Jan 2023<br>Trip Blank |
|---|---|---|---|---|
| **OC Pesticides in Water Method: AN420 Tested: 12/1/2023 (continued)** | | | | |
| Endosulfan sulphate | µg/L | 0.1 | - | - |
| o,p'-DDT | µg/L | 0.1 | - | - |
| p,p'-DDT | µg/L | 0.1 | - | - |
| Endrin ketone | µg/L | 0.1 | - | - |
| Methoxychlor | µg/L | 0.1 | - | - |
| Mirex | µg/L | 0.1 | - | - |
| trans-Nonachlor | µg/L | 0.1 | - | - |
| Total OC | µg/L | 1 | - | - |
| Total OC | µg/L | 1 | - | - |
| Surrogates | | | | |
| Tetrachloro-m-xylene (TCMX) (Surrogate) | % | - | - | - |
| **OP Pesticides in Water Method: AN420 Tested: 18/1/2023** | | | | |
| Azinphos-methyl | µg/L | 0.2 | - | - |
| Bromophos Ethyl | µg/L | 0.2 | - | - |
| Chlorpyrifos (Chlorpyrifos Ethyl) | µg/L | 0.2 | - | - |
| Diazinon (Dimpylate) | µg/L | 0.5 | - | - |
| Dichlorvos | µg/L | 0.5 | - | - |
| Dimethoate | µg/L | 0.5 | - | - |
| Ethion | µg/L | 0.2 | - | - |
| Fenitrothion | µg/L | 0.2 | - | - |
| Malathion | µg/L | 0.2 | - | - |
| Methidathion | µg/L | 0.5 | - | - |
| Parathion-ethyl (Parathion) | µg/L | 0.2 | - | - |
| Surrogates | | | | |
| 2-fluorobiphenyl (Surrogate) | % | - | - | - |
| d14-p-terphenyl (Surrogate) | % | - | - | - |

| Parameter | Units | LOR | Sample Number: SE241552.005<br>Sample Matrix: Water<br>Sample Date: 10 Jan 2023<br>Sample Name: Trip Spike | Sample Number: SE241552.006<br>Sample Matrix: Water<br>Sample Date: 10 Jan 2023<br>Sample Name: Trip Blank |
|---|---|---|---|---|
| **PCBs in Water Method: AN420 Tested: 18/1/2023** | | | | |
| Arochlor 1016 | µg/L | 1 | - | - |
| Arochlor 1221 | µg/L | 1 | - | - |
| Arochlor 1232 | µg/L | 1 | - | - |
| Arochlor 1242 | µg/L | 1 | - | - |
| Arochlor 1248 | µg/L | 1 | - | - |
| Arochlor 1254 | µg/L | 1 | - | - |
| Arochlor 1260 | µg/L | 1 | - | - |
| Arochlor 1262 | µg/L | 1 | - | - |
| Arochlor 1268 | µg/L | 1 | - | - |
| Total Arochlors* | µg/L | 5 | - | - |
| Surrogates | | | | |
| TCMX (Surrogate) | % | - | - | - |
| **Trace Metals (Dissolved) in Water by ICPMS Method: AN318 Tested: 16/1/2023** | | | | |
| Arsenic | µg/L | 1 | - | - |
| Cadmium | µg/L | 0.1 | - | - |
| Chromium | µg/L | 1 | - | - |
| Copper | µg/L | 1 | - | - |
| Lead | µg/L | 1 | - | - |
| Nickel | µg/L | 1 | - | - |
| Zinc | µg/L | 5 | - | - |
| **Mercury (dissolved) in Water Method: AN311(Perth)/AN312 Tested: 17/1/2023** | | | | |
| Mercury | mg/L | 0.0001 | - | - |

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

**Mercury (dissolved) in Water** **Method: ME-(AU)-[ENV]AN311(Perth)/AN312**

| Parameter | QC Reference | Units | LOR | MB | LCS %Recovery |
|---|---|---|---|---|---|
| Mercury | LB268775 | mg/L | 0.0001 | <0.0001 | 113% |

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

| Parameter | QC Reference | Units | LOR | MB | LCS %Recovery |
|---|---|---|---|---|---|
| Alpha BHC | LB268659 | µg/L | 0.1 | <0.1 | NA |
| Hexachlorobenzene (HCB) | LB268659 | µg/L | 0.1 | <0.1 | NA |
| Beta BHC | LB268659 | µg/L | 0.1 | <0.1 | NA |
| Lindane (gamma BHC) | LB268659 | µg/L | 0.1 | <0.1 | NA |
| Delta BHC | LB268659 | µg/L | 0.1 | <0.1 | 85% |
| Heptachlor | LB268659 | µg/L | 0.1 | <0.1 | 84% |
| Aldrin | LB268659 | µg/L | 0.1 | <0.1 | 72% |
| Isodrin | LB268659 | µg/L | 0.1 | <0.1 | NA |
| Heptachlor epoxide | LB268659 | µg/L | 0.1 | <0.1 | NA |
| Gamma Chlordane | LB268659 | µg/L | 0.1 | <0.1 | NA |
| Alpha Chlordane | LB268659 | µg/L | 0.1 | <0.1 | NA |
| Alpha Endosulfan | LB268659 | µg/L | 0.1 | <0.1 | NA |
| o,p'-DDE | LB268659 | µg/L | 0.1 | <0.1 | NA |
| p,p'-DDE | LB268659 | µg/L | 0.1 | <0.1 | NA |
| Dieldrin | LB268659 | µg/L | 0.1 | <0.1 | 85% |
| Endrin | LB268659 | µg/L | 0.1 | <0.1 | 93% |
| Beta Endosulfan | LB268659 | µg/L | 0.1 | <0.1 | NA |
| o,p'-DDD | LB268659 | µg/L | 0.1 | <0.1 | NA |
| p,p'-DDD | LB268659 | µg/L | 0.1 | <0.1 | NA |
| Endrin aldehyde | LB268659 | µg/L | 0.1 | <0.1 | NA |
| Endosulfan sulphate | LB268659 | µg/L | 0.1 | <0.1 | NA |
| o,p'-DDT | LB268659 | µg/L | 0.1 | <0.1 | NA |
| p,p'-DDT | LB268659 | µg/L | 0.1 | <0.1 | 95% |
| Endrin ketone | LB268659 | µg/L | 0.1 | <0.1 | NA |
| Methoxychlor | LB268659 | µg/L | 0.1 | <0.1 | NA |
| Mirex | LB268659 | µg/L | 0.1 | <0.1 | NA |
| trans-Nonachlor | LB268659 | µg/L | 0.1 | <0.1 | NA |
| Total OC | LB268659 | µg/L | 1 | <1 | |
| Total OC | LB268659 | µg/L | 1 | <1 | |

Surrogates

| Parameter | QC Reference | Units | LOR | MB | LCS %Recovery |
|---|---|---|---|---|---|
| Tetrachloro-m-xylene (TCMX) (Surrogate) | LB268659 | % | - | 50% | 71% |

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

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

| Parameter | QC Reference | Units | LOR | MB | LCS %Recovery |
|---|---|---|---|---|---|
| Azinphos-methyl | LB268659 | µg/L | 0.2 | <0.2 | NA |
| Bromophos Ethyl | LB268659 | µg/L | 0.2 | <0.2 | NA |
| Chlorpyrifos (Chlorpyrifos Ethyl) | LB268659 | µg/L | 0.2 | <0.2 | 97% |
| Diazinon (Dimpylate) | LB268659 | µg/L | 0.5 | <0.5 | 101% |
| Dichlorvos | LB268659 | µg/L | 0.5 | <0.5 | 86% |
| Dimethoate | LB268659 | µg/L | 0.5 | <0.5 | NA |
| Ethion | LB268659 | µg/L | 0.2 | <0.2 | 99% |
| Fenitrothion | LB268659 | µg/L | 0.2 | <0.2 | NA |
| Malathion | LB268659 | µg/L | 0.2 | <0.2 | NA |
| Methidathion | LB268659 | µg/L | 0.5 | <0.5 | NA |
| Parathion-ethyl (Parathion) | LB268659 | µg/L | 0.2 | <0.2 | NA |

Surrogates

| Parameter | QC Reference | Units | LOR | MB | LCS %Recovery |
|---|---|---|---|---|---|
| 2-fluorobiphenyl (Surrogate) | LB268659 | % | - | 70% | 62% |
| d14-p-terphenyl (Surrogate) | LB268659 | % | - | 90% | 94% |

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

| Parameter | QC Reference | Units | LOR | MB | LCS %Recovery |
|---|---|---|---|---|---|
| Naphthalene | LB268659 | µg/L | 0.1 | <0.1 | 79% |
| 2-methylnaphthalene | LB268659 | µg/L | 0.1 | <0.1 | NA |
| 1-methylnaphthalene | LB268659 | µg/L | 0.1 | <0.1 | NA |
| Acenaphthylene | LB268659 | µg/L | 0.1 | <0.1 | 83% |
| Acenaphthene | LB268659 | µg/L | 0.1 | <0.1 | 91% |
| Fluorene | LB268659 | µg/L | 0.1 | <0.1 | NA |
| Phenanthrene | LB268659 | µg/L | 0.1 | <0.1 | 97% |
| Anthracene | LB268659 | µg/L | 0.1 | <0.1 | 91% |
| Fluoranthene | LB268659 | µg/L | 0.1 | <0.1 | 91% |
| Pyrene | LB268659 | µg/L | 0.1 | <0.1 | 91% |
| Benzo(a)anthracene | LB268659 | µg/L | 0.1 | <0.1 | NA |
| Chrysene | LB268659 | µg/L | 0.1 | <0.1 | NA |
| Benzo(b&j)fluoranthene | LB268659 | µg/L | 0.1 | <0.1 | NA |
| Benzo(k)fluoranthene | LB268659 | µg/L | 0.1 | <0.1 | NA |
| Benzo(a)pyrene | LB268659 | µg/L | 0.1 | <0.1 | 93% |
| Indeno(1,2,3-cd)pyrene | LB268659 | µg/L | 0.1 | <0.1 | NA |
| Dibenzo(ah)anthracene | LB268659 | µg/L | 0.1 | <0.1 | NA |
| Benzo(ghi)perylene | LB268659 | µg/L | 0.1 | <0.1 | NA |
| Total PAH (18) | LB268659 | µg/L | 1 | <1 | |

Surrogates

| Parameter | QC Reference | Units | LOR | MB | LCS %Recovery |
|---|---|---|---|---|---|
| d5-nitrobenzene (Surrogate) | LB268659 | % | - | 72% | 56% |
| 2-fluorobiphenyl (Surrogate) | LB268659 | % | - | 70% | 62% |
| d14-p-terphenyl (Surrogate) | LB268659 | % | - | 90% | 94% |

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

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

| Parameter | QC Reference | Units | LOR | MB | LCS %Recovery |
|---|---|---|---|---|---|
| Arochlor 1016 | LB268659 | µg/L | 1 | <1 | NA |
| Arochlor 1221 | LB268659 | µg/L | 1 | <1 | NA |
| Arochlor 1232 | LB268659 | µg/L | 1 | <1 | NA |
| Arochlor 1242 | LB268659 | µg/L | 1 | <1 | NA |
| Arochlor 1248 | LB268659 | µg/L | 1 | <1 | NA |
| Arochlor 1254 | LB268659 | µg/L | 1 | <1 | NA |
| Arochlor 1260 | LB268659 | µg/L | 1 | <1 | 106% |
| Arochlor 1262 | LB268659 | µg/L | 1 | <1 | NA |
| Arochlor 1268 | LB268659 | µg/L | 1 | <1 | NA |
| Total Arochlors* | LB268659 | µg/L | 5 | <5 | |

Surrogates

| Parameter | QC Reference | Units | LOR | MB | LCS %Recovery |
|---|---|---|---|---|---|
| TCMX (Surrogate) | LB268659 | % | - | 46% | 68% |

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

| Parameter | QC Reference | Units | LOR | MB | DUP %RPD | LCS %Recovery | MS %Recovery |
|---|---|---|---|---|---|---|---|
| Arsenic | LB268769 | µg/L | 1 | <1 | 0% | 104 - 113% | 115% |
| Cadmium | LB268769 | µg/L | 0.1 | <0.1 | 0% | 100 - 103% | 102% |
| Chromium | LB268769 | µg/L | 1 | <1 | 0% | 100 - 104% | 101% |
| Copper | LB268769 | µg/L | 1 | <1 | 0 - 12% | 102 - 103% | 96% |
| Lead | LB268769 | µg/L | 1 | <1 | 0% | 99 - 100% | 100% |
| Nickel | LB268769 | µg/L | 1 | <1 | 0 - 4% | 104 - 106% | 99% |
| Zinc | LB268769 | µg/L | 5 | <5 | 0 - 14% | 100 - 102% | 99% |

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

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

| Parameter | QC Reference | Units | LOR | MB | DUP %RPD | LCS %Recovery |
|---|---|---|---|---|---|---|
| TRH C10-C14 | LB268659 | µg/L | 50 | <50 | 0 - 39% | 72% |
| TRH C15-C28 | LB268659 | µg/L | 200 | <200 | 0 - 19% | 93% |
| TRH C29-C36 | LB268659 | µg/L | 200 | <200 | 0% | 87% |

TRH F Bands

| Parameter | QC Reference | Units | LOR | MB | DUP %RPD | LCS %Recovery |
|---|---|---|---|---|---|---|
| TRH >C10-C16 | LB268659 | µg/L | 60 | <60 | 0 - 39% | 83% |
| TRH >C10-C16 - Naphthalene (F2) | LB268659 | µg/L | 60 | <60 | 0% | NA |
| TRH >C16-C34 (F3) | LB268659 | µg/L | 500 | <500 | 0% | 94% |
| TRH >C34-C40 (F4) | LB268659 | µg/L | 500 | <500 | 0% | 87% |

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

Monocyclic Aromatic Hydrocarbons

| Parameter | QC Reference | Units | LOR | MB | DUP %RPD | LCS %Recovery | MS %Recovery |
|---|---|---|---|---|---|---|---|
| Benzene | LB268931 | µg/L | 0.5 | <0.5 | 0% | 117% | 111% |
| Toluene | LB268931 | µg/L | 0.5 | <0.5 | 0% | 116% | 111% |
| Ethylbenzene | LB268931 | µg/L | 0.5 | <0.5 | 0% | 108% | 113% |
| m/p-xylene | LB268931 | µg/L | 1 | <1 | 0% | 108% | 111% |
| o-xylene | LB268931 | µg/L | 0.5 | <0.5 | 0% | 110% | 114% |

Polycyclic VOCs

| Parameter | QC Reference | Units | LOR | MB | DUP %RPD | LCS %Recovery | MS %Recovery |
|---|---|---|---|---|---|---|---|
| Naphthalene (VOC)* | LB268931 | µg/L | 0.5 | <0.5 | 0% | NA | NA |

Surrogates

| Parameter | QC Reference | Units | LOR | MB | DUP %RPD | LCS %Recovery | MS %Recovery |
|---|---|---|---|---|---|---|---|
| d4-1,2-dichloroethane (Surrogate) | LB268931 | % | - | 93% | 0 - 2% | 104% | 103% |
| d8-toluene (Surrogate) | LB268931 | % | - | 96% | 3 - 4% | 109% | 104% |
| Bromofluorobenzene (Surrogate) | LB268931 | % | - | 103% | 1 - 4% | 106% | 102% |

Totals

| Parameter | QC Reference | Units | LOR | MB | DUP %RPD | LCS %Recovery | MS %Recovery |
|---|---|---|---|---|---|---|---|
| Total BTEX | LB268931 | µg/L | 3 | <3 | 0% | NA | NA |
| Total Xylenes | LB268931 | µg/L | 1.5 | <1.5 | | | |

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

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

| Parameter | QC Reference | Units | LOR | MB | DUP %RPD | LCS %Recovery | MS %Recovery |
|---|---|---|---|---|---|---|---|
| TRH C6-C10 | LB268931 | µg/L | 50 | <50 | 0% | 85% | 98% |
| TRH C6-C9 | LB268931 | µg/L | 40 | <40 | 0% | 86% | 98% |

Surrogates

| Parameter | QC Reference | Units | LOR | MB | DUP %RPD | LCS %Recovery | MS %Recovery |
|---|---|---|---|---|---|---|---|
| d4-1,2-dichloroethane (Surrogate) | LB268931 | % | - | 93% | 0 - 2% | 104% | 103% |
| d8-toluene (Surrogate) | LB268931 | % | - | 96% | 3 - 4% | 109% | 104% |
| Bromofluorobenzene (Surrogate) | LB268931 | % | - | 103% | 1 - 4% | 106% | 102% |

VPH F Bands

| Parameter | QC Reference | Units | LOR | MB | DUP %RPD | LCS %Recovery | MS %Recovery |
|---|---|---|---|---|---|---|---|
| Benzene (F0) | LB268931 | µg/L | 0.5 | | 0% | NA | NA |
| TRH C6-C10 minus BTEX (F1) | LB268931 | µg/L | 50 | <50 | 0% | 79% | 97% |

| METHOD | METHODOLOGY SUMMARY |
|---|---|
| AN020 | Unpreserved water sample is filtered through a 0.45µm membrane filter and acidified with nitric acid similar to APHA3030B. |
| AN311(Perth)/AN312 | Mercury by Cold Vapour AAS in Waters: Mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500. |
| AN318 | Determination of elements at trace level in waters by ICP-MS technique,, referenced to USEPA 6020B and USEPA 200.8 (5.4). |
| AN403 | Total Recoverable Hydrocarbons: Determination of Hydrocarbons by gas chromatography after a solvent extraction. Detection is by flame ionisation detector (FID) that produces an electronic signal in proportion to the combustible matter passing through it. Total Recoverable Hydrocarbons (TRH) are routinely reported as four alkane groupings based on the carbon chain length of the compounds: C6-C9, C10-C14, C15-C28 and C29-C36 and in recognition of the NEPM 1999 (2013), >C10-C16 (F2), >C16-C34 (F3) and >C34-C40 (F4). Where F2 is corrected for Naphthalene, the VOC data for Naphthalene is used. |
| AN403 | Additionally, the volatile C6-C9/C6-C10 fractions may be determined by a purge and trap technique and GC/MS because of the potential for volatiles loss. Total Recoveerable Hydrocarbons - Silica (TRH-Silica) 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).<br>Total PAH calculated from individual analyte detections at or above the limit of reporting . |
| 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. |

FOOTNOTES

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

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

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

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

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

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

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

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

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

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 .

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# STATEMENT OF QA/QC PERFORMANCE

SE241552 R0

## CLIENT DETAILS

| | |
|---|---|
| Contact | Kannan Kaliappan |
| Client | K2 CONSULTING GROUP |
| Address | SUITE 222, 20B LEXINGTON DRIVE<br>BELLA VISTA NSW 2153 |
| Telephone | 61 8 00 523 000 |
| Facsimile | (Not specified) |
| Email | kannan@k2consultinggroup.com.au |
| Project | **ST-01-1533(515 Crookwell Road, Kingsdale** |
| Order Number | **ST-01-1533** |
| Samples | 6 |

## LABORATORY DETAILS

| | |
|---|---|
| Manager | Huong Crawford |
| Laboratory | SGS Alexandria Environmental |
| Address | Unit 16, 33 Maddox St<br>Alexandria NSW 2015 |
| Telephone | +61 2 8594 0400 |
| Facsimile | +61 2 8594 0499 |
| Email | au.environmental.sydney@sgs.com |
| SGS Reference | **SE241552 R0** |
| Date Received | 11 Jan 2023 |
| Date Reported | 18 Jan 2023 |

## 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 (within the SGS Alexandria Environmental laboratory).

## SAMPLE SUMMARY

| | | | |
|---|---|---|---|
| Sample counts by matrix | 6 Water | Type of documentation received | COC |
| Date documentation received | 11/1/2023 | Samples received in good order | Yes |
| Samples received without headspace | Yes | Sample temperature upon receipt | 10.0C |
| Sample container provider | SGS | Turnaround time requested | Standard |
| Samples received in correct containers | Yes | Sufficient sample for analysis | Yes |
| Sample cooling method | Ice | Samples clearly labelled | Yes |
| Complete documentation received | Yes | | |

# HOLDING TIME SUMMARY

SE241552 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 (dissolved) in Water

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| ST-01-1533-GW4 | SE241552.001 | LB268775 | 10 Jan 2023 | 11 Jan 2023 | 07 Feb 2023 | 16 Jan 2023 | 07 Feb 2023 | 17 Jan 2023 |
| ST-01-1533-GW5 | SE241552.002 | LB268775 | 10 Jan 2023 | 11 Jan 2023 | 07 Feb 2023 | 16 Jan 2023 | 07 Feb 2023 | 17 Jan 2023 |
| ST-01-1533-WD1 | SE241552.003 | LB268775 | 10 Jan 2023 | 11 Jan 2023 | 07 Feb 2023 | 16 Jan 2023 | 07 Feb 2023 | 17 Jan 2023 |
| ST-01-1533-WD2 | SE241552.004 | LB268775 | 10 Jan 2023 | 11 Jan 2023 | 07 Feb 2023 | 16 Jan 2023 | 07 Feb 2023 | 17 Jan 2023 |
| Trip Blank | SE241552.006 | LB268775 | 10 Jan 2023 | 11 Jan 2023 | 07 Feb 2023 | 16 Jan 2023 | 07 Feb 2023 | 17 Jan 2023 |

## OC Pesticides in Water

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| ST-01-1533-GW4 | SE241552.001 | LB268659 | 10 Jan 2023 | 11 Jan 2023 | 17 Jan 2023 | 12 Jan 2023 | 21 Feb 2023 | 18 Jan 2023 |
| ST-01-1533-GW5 | SE241552.002 | LB268659 | 10 Jan 2023 | 11 Jan 2023 | 17 Jan 2023 | 12 Jan 2023 | 21 Feb 2023 | 18 Jan 2023 |
| ST-01-1533-WD1 | SE241552.003 | LB268659 | 10 Jan 2023 | 11 Jan 2023 | 17 Jan 2023 | 12 Jan 2023 | 21 Feb 2023 | 18 Jan 2023 |
| ST-01-1533-WD2 | SE241552.004 | LB268659 | 10 Jan 2023 | 11 Jan 2023 | 17 Jan 2023 | 12 Jan 2023 | 21 Feb 2023 | 18 Jan 2023 |
| Trip Blank | SE241552.006 | LB268659 | 10 Jan 2023 | 11 Jan 2023 | 17 Jan 2023 | 12 Jan 2023 | 21 Feb 2023 | 18 Jan 2023 |

## OP Pesticides in Water

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| ST-01-1533-GW4 | SE241552.001 | LB268659 | 10 Jan 2023 | 11 Jan 2023 | 17 Jan 2023 | 12 Jan 2023 | 21 Feb 2023 | 18 Jan 2023 |
| ST-01-1533-GW5 | SE241552.002 | LB268659 | 10 Jan 2023 | 11 Jan 2023 | 17 Jan 2023 | 12 Jan 2023 | 21 Feb 2023 | 18 Jan 2023 |
| ST-01-1533-WD1 | SE241552.003 | LB268659 | 10 Jan 2023 | 11 Jan 2023 | 17 Jan 2023 | 12 Jan 2023 | 21 Feb 2023 | 18 Jan 2023 |
| ST-01-1533-WD2 | SE241552.004 | LB268659 | 10 Jan 2023 | 11 Jan 2023 | 17 Jan 2023 | 12 Jan 2023 | 21 Feb 2023 | 18 Jan 2023 |
| Trip Blank | SE241552.006 | LB268659 | 10 Jan 2023 | 11 Jan 2023 | 17 Jan 2023 | 12 Jan 2023 | 21 Feb 2023 | 18 Jan 2023 |

## PAH (Polynuclear Aromatic Hydrocarbons) in Water

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| ST-01-1533-GW4 | SE241552.001 | LB268659 | 10 Jan 2023 | 11 Jan 2023 | 17 Jan 2023 | 12 Jan 2023 | 21 Feb 2023 | 18 Jan 2023 |
| ST-01-1533-GW5 | SE241552.002 | LB268659 | 10 Jan 2023 | 11 Jan 2023 | 17 Jan 2023 | 12 Jan 2023 | 21 Feb 2023 | 18 Jan 2023 |
| ST-01-1533-WD1 | SE241552.003 | LB268659 | 10 Jan 2023 | 11 Jan 2023 | 17 Jan 2023 | 12 Jan 2023 | 21 Feb 2023 | 18 Jan 2023 |
| ST-01-1533-WD2 | SE241552.004 | LB268659 | 10 Jan 2023 | 11 Jan 2023 | 17 Jan 2023 | 12 Jan 2023 | 21 Feb 2023 | 18 Jan 2023 |
| Trip Blank | SE241552.006 | LB268659 | 10 Jan 2023 | 11 Jan 2023 | 17 Jan 2023 | 12 Jan 2023 | 21 Feb 2023 | 18 Jan 2023 |

## PCBs in Water

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| ST-01-1533-GW4 | SE241552.001 | LB268659 | 10 Jan 2023 | 11 Jan 2023 | 17 Jan 2023 | 12 Jan 2023 | 21 Feb 2023 | 18 Jan 2023 |
| ST-01-1533-GW5 | SE241552.002 | LB268659 | 10 Jan 2023 | 11 Jan 2023 | 17 Jan 2023 | 12 Jan 2023 | 21 Feb 2023 | 18 Jan 2023 |
| ST-01-1533-WD1 | SE241552.003 | LB268659 | 10 Jan 2023 | 11 Jan 2023 | 17 Jan 2023 | 12 Jan 2023 | 21 Feb 2023 | 18 Jan 2023 |
| ST-01-1533-WD2 | SE241552.004 | LB268659 | 10 Jan 2023 | 11 Jan 2023 | 17 Jan 2023 | 12 Jan 2023 | 21 Feb 2023 | 18 Jan 2023 |
| Trip Blank | SE241552.006 | LB268659 | 10 Jan 2023 | 11 Jan 2023 | 17 Jan 2023 | 12 Jan 2023 | 21 Feb 2023 | 18 Jan 2023 |

## Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| ST-01-1533-GW4 | SE241552.001 | LB268769 | 10 Jan 2023 | 11 Jan 2023 | 09 Jul 2023 | 16 Jan 2023 | 09 Jul 2023 | 16 Jan 2023 |
| ST-01-1533-GW5 | SE241552.002 | LB268769 | 10 Jan 2023 | 11 Jan 2023 | 09 Jul 2023 | 16 Jan 2023 | 09 Jul 2023 | 16 Jan 2023 |
| ST-01-1533-WD1 | SE241552.003 | LB268769 | 10 Jan 2023 | 11 Jan 2023 | 09 Jul 2023 | 16 Jan 2023 | 09 Jul 2023 | 16 Jan 2023 |
| ST-01-1533-WD2 | SE241552.004 | LB268769 | 10 Jan 2023 | 11 Jan 2023 | 09 Jul 2023 | 16 Jan 2023 | 09 Jul 2023 | 16 Jan 2023 |
| Trip Blank | SE241552.006 | LB268769 | 10 Jan 2023 | 11 Jan 2023 | 09 Jul 2023 | 16 Jan 2023 | 09 Jul 2023 | 16 Jan 2023 |

## TRH (Total Recoverable Hydrocarbons) in Water

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| ST-01-1533-GW4 | SE241552.001 | LB268659 | 10 Jan 2023 | 11 Jan 2023 | 17 Jan 2023 | 12 Jan 2023 | 21 Feb 2023 | 18 Jan 2023 |
| ST-01-1533-GW5 | SE241552.002 | LB268659 | 10 Jan 2023 | 11 Jan 2023 | 17 Jan 2023 | 12 Jan 2023 | 21 Feb 2023 | 18 Jan 2023 |
| ST-01-1533-WD1 | SE241552.003 | LB268659 | 10 Jan 2023 | 11 Jan 2023 | 17 Jan 2023 | 12 Jan 2023 | 21 Feb 2023 | 18 Jan 2023 |
| ST-01-1533-WD2 | SE241552.004 | LB268659 | 10 Jan 2023 | 11 Jan 2023 | 17 Jan 2023 | 12 Jan 2023 | 21 Feb 2023 | 18 Jan 2023 |
| Trip Blank | SE241552.006 | LB268659 | 10 Jan 2023 | 11 Jan 2023 | 17 Jan 2023 | 12 Jan 2023 | 21 Feb 2023 | 13 Jan 2023 |

## VOCs in Water

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| ST-01-1533-GW4 | SE241552.001 | LB268931 | 10 Jan 2023 | 11 Jan 2023 | 24 Jan 2023 | 17 Jan 2023 | 24 Jan 2023 | 18 Jan 2023 |
| ST-01-1533-GW5 | SE241552.002 | LB268931 | 10 Jan 2023 | 11 Jan 2023 | 24 Jan 2023 | 17 Jan 2023 | 24 Jan 2023 | 18 Jan 2023 |
| ST-01-1533-WD1 | SE241552.003 | LB268931 | 10 Jan 2023 | 11 Jan 2023 | 24 Jan 2023 | 17 Jan 2023 | 24 Jan 2023 | 18 Jan 2023 |
| ST-01-1533-WD2 | SE241552.004 | LB268931 | 10 Jan 2023 | 11 Jan 2023 | 24 Jan 2023 | 17 Jan 2023 | 24 Jan 2023 | 18 Jan 2023 |
| Trip Spike | SE241552.005 | LB268931 | 10 Jan 2023 | 11 Jan 2023 | 24 Jan 2023 | 17 Jan 2023 | 24 Jan 2023 | 18 Jan 2023 |
| Trip Blank | SE241552.006 | LB268931 | 10 Jan 2023 | 11 Jan 2023 | 24 Jan 2023 | 17 Jan 2023 | 24 Jan 2023 | 18 Jan 2023 |

# HOLDING TIME SUMMARY

SE241552 R0

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

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

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

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| ST-01-1533-GW4 | SE241552.001 | LB268931 | 10 Jan 2023 | 11 Jan 2023 | 24 Jan 2023 | 17 Jan 2023 | 24 Jan 2023 | 18 Jan 2023 |
| ST-01-1533-GW5 | SE241552.002 | LB268931 | 10 Jan 2023 | 11 Jan 2023 | 24 Jan 2023 | 17 Jan 2023 | 24 Jan 2023 | 18 Jan 2023 |
| ST-01-1533-WD1 | SE241552.003 | LB268931 | 10 Jan 2023 | 11 Jan 2023 | 24 Jan 2023 | 17 Jan 2023 | 24 Jan 2023 | 18 Jan 2023 |
| ST-01-1533-WD2 | SE241552.004 | LB268931 | 10 Jan 2023 | 11 Jan 2023 | 24 Jan 2023 | 17 Jan 2023 | 24 Jan 2023 | 18 Jan 2023 |
| Trip Spike | SE241552.005 | LB268931 | 10 Jan 2023 | 11 Jan 2023 | 24 Jan 2023 | 17 Jan 2023 | 24 Jan 2023 | 18 Jan 2023 |
| Trip Blank | SE241552.006 | LB268931 | 10 Jan 2023 | 11 Jan 2023 | 24 Jan 2023 | 17 Jan 2023 | 24 Jan 2023 | 18 Jan 2023 |

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

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

## OC Pesticides in Water

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| Tetrachloro-m-xylene (TCMX) (Surrogate) | ST-01-1533-GW4 | SE241552.001 | % | 40 - 130% | 59 |
| | ST-01-1533-GW5 | SE241552.002 | % | 40 - 130% | 83 |
| | ST-01-1533-WD1 | SE241552.003 | % | 40 - 130% | 55 |
| | ST-01-1533-WD2 | SE241552.004 | % | 40 - 130% | 76 |

## OP Pesticides in Water

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| 2-fluorobiphenyl (Surrogate) | ST-01-1533-GW4 | SE241552.001 | % | 40 - 130% | 50 |
| | ST-01-1533-GW5 | SE241552.002 | % | 40 - 130% | 80 |
| | ST-01-1533-WD1 | SE241552.003 | % | 40 - 130% | 52 |
| | ST-01-1533-WD2 | SE241552.004 | % | 40 - 130% | 68 |
| d14-p-terphenyl (Surrogate) | ST-01-1533-GW4 | SE241552.001 | % | 40 - 130% | 72 |
| | ST-01-1533-GW5 | SE241552.002 | % | 40 - 130% | 92 |
| | ST-01-1533-WD1 | SE241552.003 | % | 40 - 130% | 66 |
| | ST-01-1533-WD2 | SE241552.004 | % | 40 - 130% | 88 |

## PAH (Polynuclear Aromatic Hydrocarbons) in Water

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| 2-fluorobiphenyl (Surrogate) | ST-01-1533-GW4 | SE241552.001 | % | 40 - 130% | 50 |
| | ST-01-1533-GW5 | SE241552.002 | % | 40 - 130% | 80 |
| | ST-01-1533-WD1 | SE241552.003 | % | 40 - 130% | 52 |
| | ST-01-1533-WD2 | SE241552.004 | % | 40 - 130% | 68 |
| d14-p-terphenyl (Surrogate) | ST-01-1533-GW4 | SE241552.001 | % | 40 - 130% | 72 |
| | ST-01-1533-GW5 | SE241552.002 | % | 40 - 130% | 92 |
| | ST-01-1533-WD1 | SE241552.003 | % | 40 - 130% | 66 |
| | ST-01-1533-WD2 | SE241552.004 | % | 40 - 130% | 88 |
| d5-nitrobenzene (Surrogate) | ST-01-1533-GW4 | SE241552.001 | % | 40 - 130% | 48 |
| | ST-01-1533-GW5 | SE241552.002 | % | 40 - 130% | 76 |
| | ST-01-1533-WD1 | SE241552.003 | % | 40 - 130% | 46 |
| | ST-01-1533-WD2 | SE241552.004 | % | 40 - 130% | 60 |

## PCBs in Water

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| TCMX (Surrogate) | ST-01-1533-GW4 | SE241552.001 | % | 40 - 130% | 56 |
| | ST-01-1533-GW5 | SE241552.002 | % | 40 - 130% | 79 |
| | ST-01-1533-WD1 | SE241552.003 | % | 40 - 130% | 51 |
| | ST-01-1533-WD2 | SE241552.004 | % | 40 - 130% | 72 |

## VOCs in Water

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| Bromofluorobenzene (Surrogate) | ST-01-1533-GW4 | SE241552.001 | % | 40 - 130% | 108 |
| | ST-01-1533-GW5 | SE241552.002 | % | 40 - 130% | 108 |
| | ST-01-1533-WD1 | SE241552.003 | % | 40 - 130% | 105 |
| | ST-01-1533-WD2 | SE241552.004 | % | 40 - 130% | 105 |
| | Trip Spike | SE241552.005 | % | 40 - 130% | 108 |
| | Trip Blank | SE241552.006 | % | 40 - 130% | 107 |
| d4-1,2-dichloroethane (Surrogate) | ST-01-1533-GW4 | SE241552.001 | % | 40 - 130% | 95 |
| | ST-01-1533-GW5 | SE241552.002 | % | 40 - 130% | 96 |
| | ST-01-1533-WD1 | SE241552.003 | % | 40 - 130% | 95 |
| | ST-01-1533-WD2 | SE241552.004 | % | 40 - 130% | 93 |
| | Trip Spike | SE241552.005 | % | 40 - 130% | 102 |
| | Trip Blank | SE241552.006 | % | 40 - 130% | 95 |
| d8-toluene (Surrogate) | ST-01-1533-GW4 | SE241552.001 | % | 40 - 130% | 99 |
| | ST-01-1533-GW5 | SE241552.002 | % | 40 - 130% | 101 |
| | ST-01-1533-WD1 | SE241552.003 | % | 40 - 130% | 99 |
| | ST-01-1533-WD2 | SE241552.004 | % | 40 - 130% | 100 |
| | Trip Spike | SE241552.005 | % | 40 - 130% | 103 |
| | Trip Blank | SE241552.006 | % | 40 - 130% | 98 |

## Volatile Petroleum Hydrocarbons in Water

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| Bromofluorobenzene (Surrogate) | ST-01-1533-GW4 | SE241552.001 | % | 40 - 130% | 108 |
| | ST-01-1533-GW5 | SE241552.002 | % | 40 - 130% | 108 |

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

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

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| Bromofluorobenzene (Surrogate) | ST-01-1533-WD1 | SE241552.003 | % | 40 - 130% | 105 |
| | ST-01-1533-WD2 | SE241552.004 | % | 40 - 130% | 105 |
| | Trip Blank | SE241552.006 | % | 40 - 130% | 107 |
| d4-1,2-dichloroethane (Surrogate) | ST-01-1533-GW4 | SE241552.001 | % | 60 - 130% | 95 |
| | ST-01-1533-GW5 | SE241552.002 | % | 60 - 130% | 96 |
| | ST-01-1533-WD1 | SE241552.003 | % | 60 - 130% | 95 |
| | ST-01-1533-WD2 | SE241552.004 | % | 60 - 130% | 93 |
| | Trip Blank | SE241552.006 | % | 60 - 130% | 95 |
| d8-toluene (Surrogate) | ST-01-1533-GW4 | SE241552.001 | % | 40 - 130% | 99 |
| | ST-01-1533-GW5 | SE241552.002 | % | 40 - 130% | 101 |
| | ST-01-1533-WD1 | SE241552.003 | % | 40 - 130% | 99 |
| | ST-01-1533-WD2 | SE241552.004 | % | 40 - 130% | 100 |
| | Trip Blank | SE241552.006 | % | 40 - 130% | 98 |

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 (dissolved) in Water

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

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB268775.001 | Mercury | mg/L | 0.0001 | <0.0001 |

## OC Pesticides in Water

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

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB268659.001 | | Alpha BHC | µg/L | 0.1 | <0.1 |
| | | Hexachlorobenzene (HCB) | µg/L | 0.1 | <0.1 |
| | | Beta BHC | µg/L | 0.1 | <0.1 |
| | | Lindane (gamma BHC) | µg/L | 0.1 | <0.1 |
| | | Delta BHC | µg/L | 0.1 | <0.1 |
| | | Heptachlor | µg/L | 0.1 | <0.1 |
| | | Aldrin | µg/L | 0.1 | <0.1 |
| | | Isodrin | µg/L | 0.1 | <0.1 |
| | | Heptachlor epoxide | µg/L | 0.1 | <0.1 |
| | | Gamma Chlordane | µg/L | 0.1 | <0.1 |
| | | Alpha Chlordane | µg/L | 0.1 | <0.1 |
| | | Alpha Endosulfan | µg/L | 0.1 | <0.1 |
| | | p,p'-DDE | µg/L | 0.1 | <0.1 |
| | | Dieldrin | µg/L | 0.1 | <0.1 |
| | | Endrin | µg/L | 0.1 | <0.1 |
| | | Beta Endosulfan | µg/L | 0.1 | <0.1 |
| | | p,p'-DDD | µg/L | 0.1 | <0.1 |
| | | Endrin aldehyde | µg/L | 0.1 | <0.1 |
| | | Endosulfan sulphate | µg/L | 0.1 | <0.1 |
| | | p,p'-DDT | µg/L | 0.1 | <0.1 |
| | | Endrin ketone | µg/L | 0.1 | <0.1 |
| | | Methoxychlor | µg/L | 0.1 | <0.1 |
| | | Mirex | µg/L | 0.1 | <0.1 |
| | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | % | - | 50 |

## OP Pesticides in Water

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

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB268659.001 | | Azinphos-methyl | µg/L | 0.2 | <0.2 |
| | | Bromophos Ethyl | µg/L | 0.2 | <0.2 |
| | | Chlorpyrifos (Chlorpyrifos Ethyl) | µg/L | 0.2 | <0.2 |
| | | Diazinon (Dimpylate) | µg/L | 0.5 | <0.5 |
| | | Dichlorvos | µg/L | 0.5 | <0.5 |
| | | Dimethoate | µg/L | 0.5 | <0.5 |
| | | Ethion | µg/L | 0.2 | <0.2 |
| | | Fenitrothion | µg/L | 0.2 | <0.2 |
| | | Malathion | µg/L | 0.2 | <0.2 |
| | | Methidathion | µg/L | 0.5 | <0.5 |
| | | Parathion-ethyl (Parathion) | µg/L | 0.2 | <0.2 |
| | Surrogates | 2-fluorobiphenyl (Surrogate) | % | - | 70 |
| | | d14-p-terphenyl (Surrogate) | % | - | 90 |

## PAH (Polynuclear Aromatic Hydrocarbons) in Water

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

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB268659.001 | Naphthalene | µg/L | 0.1 | <0.1 |
| | 2-methylnaphthalene | µg/L | 0.1 | <0.1 |
| | 1-methylnaphthalene | µg/L | 0.1 | <0.1 |
| | Acenaphthylene | µg/L | 0.1 | <0.1 |
| | Acenaphthene | µg/L | 0.1 | <0.1 |
| | Fluorene | µg/L | 0.1 | <0.1 |
| | Phenanthrene | µg/L | 0.1 | <0.1 |
| | Anthracene | µg/L | 0.1 | <0.1 |
| | Fluoranthene | µg/L | 0.1 | <0.1 |
| | Pyrene | µg/L | 0.1 | <0.1 |
| | Benzo(a)anthracene | µg/L | 0.1 | <0.1 |
| | Chrysene | µg/L | 0.1 | <0.1 |
| | Benzo(a)pyrene | µg/L | 0.1 | <0.1 |

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

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

## PAH (Polynuclear Aromatic Hydrocarbons) in Water (continued)

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

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB268659.001 | | Indeno(1,2,3-cd)pyrene | µg/L | 0.1 | <0.1 |
| | | Dibenzo(ah)anthracene | µg/L | 0.1 | <0.1 |
| | | Benzo(ghi)perylene | µg/L | 0.1 | <0.1 |
| | Surrogates | d5-nitrobenzene (Surrogate) | % | - | 72 |
| | | 2-fluorobiphenyl (Surrogate) | % | - | 70 |
| | | d14-p-terphenyl (Surrogate) | % | - | 90 |

## PCBs in Water

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

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB268659.001 | Arochlor 1016 | µg/L | 1 | <1 |
| | Arochlor 1221 | µg/L | 1 | <1 |
| | Arochlor 1232 | µg/L | 1 | <1 |
| | Arochlor 1242 | µg/L | 1 | <1 |
| | Arochlor 1248 | µg/L | 1 | <1 |
| | Arochlor 1254 | µg/L | 1 | <1 |
| | Arochlor 1260 | µg/L | 1 | <1 |
| | Arochlor 1262 | µg/L | 1 | <1 |
| | Arochlor 1268 | µg/L | 1 | <1 |

## Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB268769.001 | Arsenic | µg/L | 1 | <1 |
| | Cadmium | µg/L | 0.1 | <0.1 |
| | Chromium | µg/L | 1 | <1 |
| | Copper | µg/L | 1 | <1 |
| | Lead | µg/L | 1 | <1 |
| | Nickel | µg/L | 1 | <1 |
| | Zinc | µg/L | 5 | <5 |
| LB268769.025 | Arsenic | µg/L | 1 | <1 |
| | Cadmium | µg/L | 0.1 | <0.1 |
| | Chromium | µg/L | 1 | <1 |
| | Copper | µg/L | 1 | <1 |
| | Lead | µg/L | 1 | <1 |
| | Nickel | µg/L | 1 | <1 |
| | Zinc | µg/L | 5 | <5 |

## TRH (Total Recoverable Hydrocarbons) in Water

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

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB268659.001 | TRH C10-C14 | µg/L | 50 | <50 |
| | TRH C15-C28 | µg/L | 200 | <200 |
| | TRH C29-C36 | µg/L | 200 | <200 |

## VOCs in Water

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

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB268931.001 | Monocyclic Aromatic Hydrocarbons | Benzene | µg/L | 0.5 | <0.5 |
| | | Toluene | µg/L | 0.5 | <0.5 |
| | | Ethylbenzene | µg/L | 0.5 | <0.5 |
| | | m/p-xylene | µg/L | 1 | <1 |
| | | o-xylene | µg/L | 0.5 | <0.5 |
| | Polycyclic VOCs | Naphthalene (VOC)* | µg/L | 0.5 | <0.5 |
| | Surrogates | d4-1,2-dichloroethane (Surrogate) | % | - | 93 |
| | | d8-toluene (Surrogate) | % | - | 96 |
| | | Bromofluorobenzene (Surrogate) | % | - | 103 |

## Volatile Petroleum Hydrocarbons in Water

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

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB268931.001 | | TRH C6-C9 | µg/L | 40 | <40 |
| | Surrogates | d4-1,2-dichloroethane (Surrogate) | % | - | 93 |
| | | d8-toluene (Surrogate) | % | - | 96 |
| | | Bromofluorobenzene (Surrogate) | % | - | 103 |

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

## Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE241576.005 | LB268769.014 | | Arsenic | µg/L | 1 | <1 | <1 | 200 | 0 |
| | | | Cadmium | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Chromium | µg/L | 1 | <1 | <1 | 200 | 0 |
| | | | Copper | µg/L | 1 | <1 | <1 | 200 | 0 |
| | | | Lead | µg/L | 1 | <1 | <1 | 200 | 0 |
| | | | Nickel | µg/L | 1 | <1 | <1 | 200 | 0 |
| | | | Zinc | µg/L | 5 | <5 | <5 | 200 | 0 |
| SE241685.003 | LB268769.027 | | Arsenic | µg/L | 1 | <1 | <1 | 192 | 0 |
| | | | Cadmium | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Chromium | µg/L | 1 | <1 | <1 | 200 | 0 |
| | | | Copper | µg/L | 1 | 4 | 3 | 44 | 12 |
| | | | Lead | µg/L | 1 | <1 | <1 | 200 | 0 |
| | | | Nickel | µg/L | 1 | 3 | 3 | 45 | 4 |
| | | | Zinc | µg/L | 5 | 23 | 20 | 38 | 14 |

## TRH (Total Recoverable Hydrocarbons) in Water

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE241488.001 | LB268659.028 | | TRH C10-C14 | µg/L | 50 | 140 | 92 | 74 | 39 |
| | | | TRH C15-C28 | µg/L | 200 | 240 | <200 | 130 | 19 |
| | | | TRH C29-C36 | µg/L | 200 | <200 | <200 | 200 | 0 |
| | | TRH F Bands | TRH >C10-C16 | µg/L | 60 | 210 | 140 | 65 | 39 |
| | | | TRH >C16-C34 (F3) | µg/L | 500 | <500 | <500 | 200 | 0 |
| | | | TRH >C34-C40 (F4) | µg/L | 500 | <500 | <500 | 200 | 0 |
| SE241576.003 | LB268659.014 | | TRH C10-C14 | µg/L | 50 | 44.75 | 44.5 | 142 | 0 |
| | | | TRH C15-C28 | µg/L | 200 | 38.151162790 | 65.412790697 | 200 | 0 |
| | | | TRH C29-C36 | µg/L | 200 | 0.656976744 | 10.412790697 | 200 | 0 |
| | | TRH F Bands | TRH >C10-C16 | µg/L | 60 | 50.918604651 | 52.319767441 | 146 | 0 |
| | | | TRH >C10-C16 - Naphthalene (F2) | µg/L | 60 | 50.882713756 | 52.319767441 | 146 | 0 |
| | | | TRH >C16-C34 (F3) | µg/L | 500 | 28.761627906 | 65 | 200 | 0 |
| | | | TRH >C34-C40 (F4) | µg/L | 500 | 0 | 0 | 200 | 0 |

## VOCs in Water

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE241517.020 | LB268931.024 | Monocyclic | Benzene | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | Aromatic | Toluene | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | Ethylbenzene | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | m/p-xylene | µg/L | 1 | <1 | <1 | 200 | 0 |
| | | | o-xylene | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | Polycyclic | Naphthalene (VOC)* | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | µg/L | - | 9.5 | 9.7 | 30 | 2 |
| | | | d8-toluene (Surrogate) | µg/L | - | 10 | 9.6 | 30 | 4 |
| | | | Bromofluorobenzene (Surrogate) | µg/L | - | 11 | 11 | 30 | 1 |
| | | Totals | Total BTEX | µg/L | 3 | <3 | <3 | 200 | 0 |
| SE241694.001 | LB268931.025 | Monocyclic | Benzene | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | Aromatic | Toluene | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | Ethylbenzene | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | m/p-xylene | µg/L | 1 | <1 | <1 | 200 | 0 |
| | | | o-xylene | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | Polycyclic | Naphthalene (VOC)* | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | µg/L | - | 9.4 | 9.5 | 30 | 0 |
| | | | d8-toluene (Surrogate) | µg/L | - | 9.7 | 9.9 | 30 | 3 |
| | | | Bromofluorobenzene (Surrogate) | µg/L | - | 11 | 10 | 30 | 4 |
| | | Totals | Total BTEX | µg/L | 3 | <3 | <3 | 200 | 0 |

## Volatile Petroleum Hydrocarbons in Water

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE241517.020 | LB268931.024 | Surrogates | d4-1,2-dichloroethane (Surrogate) | µg/L | - | 9.5 | 9.7 | 30 | 2 |
| | | | d8-toluene (Surrogate) | µg/L | - | 10 | 9.6 | 30 | 4 |
| | | | Bromofluorobenzene (Surrogate) | µg/L | - | 11 | 11 | 30 | 1 |
| | | VPH F Bands | Benzene (F0) | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| SE241694.001 | LB268931.025 | | TRH C6-C10 | µg/L | 50 | <50 | <50 | 200 | 0 |
| | | | TRH C6-C9 | µg/L | 40 | <40 | <40 | 200 | 0 |

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE241694.001 | LB268931.025 | Surrogates | d4-1,2-dichloroethane (Surrogate) | µg/L | - | 9.4 | 9.5 | 30 | 0 |
| | | | d8-toluene (Surrogate) | µg/L | - | 9.7 | 9.9 | 30 | 3 |
| | | | Bromofluorobenzene (Surrogate) | µg/L | - | 11 | 10 | 30 | 4 |
| | | VPH F Bands | Benzene (F0) | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | TRH C6-C10 minus BTEX (F1) | µg/L | 50 | <50 | <50 | 200 | 0 |

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

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

## OC Pesticides in Water

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

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB268659.002 | | Delta BHC | µg/L | 0.1 | 0.2 | 0.2 | 60 - 140 | 85 |
| | | Heptachlor | µg/L | 0.1 | 0.2 | 0.2 | 60 - 140 | 84 |
| | | Aldrin | µg/L | 0.1 | 0.1 | 0.2 | 60 - 140 | 72 |
| | | Dieldrin | µg/L | 0.1 | 0.2 | 0.2 | 60 - 140 | 85 |
| | | Endrin | µg/L | 0.1 | 0.2 | 0.2 | 60 - 140 | 93 |
| | | p,p'-DDT | µg/L | 0.1 | 0.2 | 0.2 | 60 - 140 | 95 |
| | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | µg/L | - | 0.11 | 0.15 | 40 - 130 | 71 |

## OP Pesticides in Water

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

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB268659.002 | | Chlorpyrifos (Chlorpyrifos Ethyl) | µg/L | 0.2 | 7.8 | 8 | 60 - 140 | 97 |
| | | Diazinon (Dimpylate) | µg/L | 0.5 | 8.1 | 8 | 60 - 140 | 101 |
| | | Dichlorvos | µg/L | 0.5 | 6.9 | 8 | 60 - 140 | 86 |
| | | Ethion | µg/L | 0.2 | 7.9 | 8 | 60 - 140 | 99 |
| | Surrogates | 2-fluorobiphenyl (Surrogate) | µg/L | - | 0.3 | 0.5 | 40 - 130 | 62 |
| | | d14-p-terphenyl (Surrogate) | µg/L | - | 0.5 | 0.5 | 40 - 130 | 94 |

## PAH (Polynuclear Aromatic Hydrocarbons) in Water

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

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB268659.002 | | Naphthalene | µg/L | 0.1 | 32 | 40 | 60 - 140 | 79 |
| | | Acenaphthylene | µg/L | 0.1 | 33 | 40 | 60 - 140 | 83 |
| | | Acenaphthene | µg/L | 0.1 | 37 | 40 | 60 - 140 | 91 |
| | | Phenanthrene | µg/L | 0.1 | 39 | 40 | 60 - 140 | 97 |
| | | Anthracene | µg/L | 0.1 | 36 | 40 | 60 - 140 | 91 |
| | | Fluoranthene | µg/L | 0.1 | 36 | 40 | 60 - 140 | 91 |
| | | Pyrene | µg/L | 0.1 | 36 | 40 | 60 - 140 | 91 |
| | | Benzo(a)pyrene | µg/L | 0.1 | 37 | 40 | 60 - 140 | 93 |
| | Surrogates | d5-nitrobenzene (Surrogate) | µg/L | - | 0.3 | 0.5 | 40 - 130 | 56 |
| | | 2-fluorobiphenyl (Surrogate) | µg/L | - | 0.3 | 0.5 | 40 - 130 | 62 |
| | | d14-p-terphenyl (Surrogate) | µg/L | - | 0.5 | 0.5 | 40 - 130 | 94 |

## PCBs in Water

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

| Sample Number | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|
| LB268659.002 | Arochlor 1260 | µg/L | 1 | <1 | 0.4 | 60 - 140 | 106 |

## Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

| Sample Number | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|
| LB268769.002 | Arsenic | µg/L | 1 | 21 | 20 | 80 - 120 | 104 |
| | Cadmium | µg/L | 0.1 | 20 | 20 | 80 - 120 | 100 |
| | Chromium | µg/L | 1 | 20 | 20 | 80 - 120 | 100 |
| | Copper | µg/L | 1 | 20 | 20 | 80 - 120 | 102 |
| | Lead | µg/L | 1 | 20 | 20 | 80 - 120 | 100 |
| | Nickel | µg/L | 1 | 21 | 20 | 80 - 120 | 104 |
| | Zinc | µg/L | 5 | 20 | 20 | 80 - 120 | 102 |
| LB268769.026 | Arsenic | µg/L | 1 | 23 | 20 | 80 - 120 | 113 |
| | Cadmium | µg/L | 0.1 | 21 | 20 | 80 - 120 | 103 |
| | Chromium | µg/L | 1 | 21 | 20 | 80 - 120 | 104 |
| | Copper | µg/L | 1 | 21 | 20 | 80 - 120 | 103 |
| | Lead | µg/L | 1 | 20 | 20 | 80 - 120 | 99 |
| | Nickel | µg/L | 1 | 21 | 20 | 80 - 120 | 106 |
| | Zinc | µg/L | 5 | 20 | 20 | 80 - 120 | 100 |

## TRH (Total Recoverable Hydrocarbons) in Water

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

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB268659.002 | | TRH C10-C14 | µg/L | 50 | 870 | 1200 | 60 - 140 | 72 |
| | | TRH C15-C28 | µg/L | 200 | 1100 | 1200 | 60 - 140 | 93 |
| | | TRH C29-C36 | µg/L | 200 | 1000 | 1200 | 60 - 140 | 87 |
| | TRH F Bands | TRH >C10-C16 | µg/L | 60 | 990 | 1200 | 60 - 140 | 83 |
| | | TRH >C16-C34 (F3) | µg/L | 500 | 1100 | 1200 | 60 - 140 | 94 |
| | | TRH >C34-C40 (F4) | µg/L | 500 | 520 | 600 | 60 - 140 | 87 |

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.

## VOCs in Water

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

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB268931.002 | Monocyclic | Benzene | µg/L | 0.5 | 53 | 45.45 | 60 - 140 | 117 |
| | Aromatic | Toluene | µg/L | 0.5 | 53 | 45.45 | 60 - 140 | 116 |
| | | Ethylbenzene | µg/L | 0.5 | 49 | 45.45 | 60 - 140 | 108 |
| | | m/p-xylene | µg/L | 1 | 98 | 90.9 | 60 - 140 | 108 |
| | | o-xylene | µg/L | 0.5 | 50 | 45.45 | 60 - 140 | 110 |
| | Surrogates | d4-1,2-dichloroethane (Surrogate) | µg/L | - | 10.4 | 10 | 60 - 140 | 104 |
| | | d8-toluene (Surrogate) | µg/L | - | 10.9 | 10 | 70 - 130 | 109 |
| | | Bromofluorobenzene (Surrogate) | µg/L | - | 10.6 | 10 | 70 - 130 | 106 |

## Volatile Petroleum Hydrocarbons in Water

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

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB268931.002 | | TRH C6-C10 | µg/L | 50 | 810 | 946.63 | 60 - 140 | 85 |
| | | TRH C6-C9 | µg/L | 40 | 700 | 818.71 | 60 - 140 | 86 |
| | Surrogates | d4-1,2-dichloroethane (Surrogate) | µg/L | - | 10.4 | 10 | 60 - 140 | 104 |
| | | d8-toluene (Surrogate) | µg/L | - | 10.9 | 10 | 70 - 130 | 109 |
| | | Bromofluorobenzene (Surrogate) | µg/L | - | 10.6 | 10 | 70 - 130 | 106 |
| | VPH F Bands | TRH C6-C10 minus BTEX (F1) | µg/L | 50 | 500 | 639.67 | 60 - 140 | 79 |

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

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

## Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

| QC Sample | Sample Number | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|
| SE241552.001 | LB268769.004 | Arsenic | µg/L | 1 | 23 | <1 | 20 | 115 |
| | | Cadmium | µg/L | 0.1 | 21 | <0.1 | 20 | 102 |
| | | Chromium | µg/L | 1 | 20 | <1 | 20 | 101 |
| | | Copper | µg/L | 1 | 20 | <1 | 20 | 96 |
| | | Lead | µg/L | 1 | 20 | <1 | 20 | 100 |
| | | Nickel | µg/L | 1 | 22 | 2 | 20 | 99 |
| | | Zinc | µg/L | 5 | 20 | <5 | 20 | 99 |

## VOCs in Water

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

| QC Sample | Sample Number | | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|---|
| SE241552.001 | LB268931.023 | Monocyclic Aromatic | Benzene | µg/L | 0.5 | 50 | <0.5 | 45.45 | 111 |
| | | | Toluene | µg/L | 0.5 | 51 | <0.5 | 45.45 | 111 |
| | | | Ethylbenzene | µg/L | 0.5 | 51 | <0.5 | 45.45 | 113 |
| | | | m/p-xylene | µg/L | 1 | 100 | <1 | 90.9 | 111 |
| | | | o-xylene | µg/L | 0.5 | 52 | <0.5 | 45.45 | 114 |
| | | Polycyclic | Naphthalene (VOC)* | µg/L | 0.5 | 51 | <0.5 | - | - |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | µg/L | - | 10.3 | 9.5 | - | 103 |
| | | | d8-toluene (Surrogate) | µg/L | - | 10.4 | 9.9 | - | 104 |
| | | | Bromofluorobenzene (Surrogate) | µg/L | - | 10.2 | 10.8 | - | 102 |
| | | Totals | Total BTEX | µg/L | 3 | 300 | <3 | - | - |

## Volatile Petroleum Hydrocarbons in Water

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

| QC Sample | Sample Number | | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|---|
| SE241552.001 | LB268931.023 | | TRH C6-C10 | µg/L | 50 | 930 | <50 | 946.63 | 98 |
| | | | TRH C6-C9 | µg/L | 40 | 800 | <40 | 818.71 | 98 |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | µg/L | - | 10.3 | 9.5 | - | 103 |
| | | | d8-toluene (Surrogate) | µg/L | - | 10.4 | 9.9 | - | 104 |
| | | | Bromofluorobenzene (Surrogate) | µg/L | - | 10.2 | 10.8 | - | 102 |
| | | VPH F Bands | Benzene (F0) | µg/L | 0.5 | | <0.5 | - | - |
| | | | TRH C6-C10 minus BTEX (F1) | µg/L | 50 | 620 | <50 | 639.67 | 97 |

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The original result is the analyte concentration of the matrix spike. The Duplicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the

No matrix spike duplicates were required for this job.

Samples analysed as received.

Solid samples expressed on a dry weight basis.

QC criteria are subject to internal review according to the SGS QA/QC plan and may be provided on request or alternatively can be found here: https://www.sgs.com.au/~/media/Local/Australia/Documents/Technical Documents/MP-AU-ENV-QU-022 QA QC Plan.pdf

| | |
|---|---|
| * | NATA accreditation does not cover the performance of this service. |
| ** | Indicative data, theoretical holding time exceeded. |
| *** | Indicates that both * and ** apply. |
| - | Sample not analysed for this analyte. |
| IS | Insufficient sample for analysis. |
| LNR | Sample listed, but not received. |
| LOR | Limit of reporting. |
| QFH | QC result is above the upper tolerance. |
| QFL | QC result is below the lower tolerance. |
| ① | At least 2 of 3 surrogates are within acceptance criteria. |
| ② | RPD failed acceptance criteria due to sample heterogeneity. |
| ③ | Results less than 5 times LOR preclude acceptance criteria for RPD. |
| ④ | Recovery failed acceptance criteria due to matrix interference. |
| ⑤ | Recovery failed acceptance criteria due to the presence of significant concentration of analyte (i.e. the concentration of analyte exceeds the spike level). |
| ⑥ | LOR was raised due to sample matrix interference. |
| ⑦ | LOR was raised due to dilution of significantly high concentration of analyte in sample. |
| ⑧ | Reanalysis of sample in duplicate confirmed sample heterogeneity and inconsistency of results. |
| ⑨ | Recovery failed acceptance criteria due to sample heterogeneity. |
| ⑩ | LOR was raised due to high conductivity of the sample (required dilution). |
| † | Refer to relevant report comments for further information. |

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# CHAIN OF CUSTODY & ANALYSIS REQUEST

Page_____of _____


**SGS Environmental Services**

**Unit 16, 33 Maddox Street**

**Alexandria NSW 2015**

**Telephone No: (02) 85940400**

**Facsimile No: (02) 85940499**

**Email:** au.samplereceipt.sydney@sgs.com


Company Name: K2 Consulting Group

Address: Suite 222 (Building B)

20 Lexington Drive, Bella Vista NSW 2153

Contact Name: Kannan Kaliappan

Project Name/No: ST-01-1533 (515 Crookwell Road, Kingsdale)

Purchase Order No:

Results Required By:

Telephone: 0449 669 559

Facsimile:

Email Results: kannan@k2consultinggroup.com.au; sirish@k2consultinggroup.com.au

SGS EHS Sydney COC

**SE241552**

| Client Sample ID | Date Sampled | Lab sample ID | CL17 (BTEXN/TRH/PAH/OC/OP/PCB/8HM) |
|---|---|---|---|
| ST-01-1533-GW14 | 10/01/2023 | 1 | X |
| ST-01-1533-GW15 | 10/01/2023 | 2 | X |
| ST-01-1533-WD1 | 10/01/2023 | 3 | X |
| ST-01-1533-WD2 | 10/01/2023 | 4 | X |
| ST-01-1533-WD1 (Sediment) | 10/01/2023 | | HOLD |
| Trip Spike | | 5 | X |
| Trip Blank | | 6 | X |
| | | | |
| | | | |
| | | | |

Relinquished By: Sirish Baniya — Date/Time: 11/01/2023 — Received By: — Date/Time 11/1/23 @ 5:50

Relinquished By: — Date/Time: — Received By: — Date/Time

Samples Intact: Yes/ No — Temperature: Ambient / Chilled 10°C ice — Sample Cooler Sealed: Yes/ No — Laboratory Quotation No:

Comments:

source:SE_Autoscan.pdf page:3 SGS Ref: SE241552_COC

# ANALYTICAL REPORT

Accreditation No. 2562

## CLIENT DETAILS

| | |
|---|---|
| Contact | Kannan Kaliappan |
| Client | K2 CONSULTING GROUP |
| Address | SUITE 222, 20B LEXINGTON DRIVE<br>BELLA VISTA NSW 2153 |
| Telephone | 61 8 00 523 000 |
| Facsimile | (Not specified) |
| Email | kannan@k2consultinggroup.com.au |
| Project | **ST-01-1533(515 Crookwell Road,Kingsdale)** |
| Order Number | **ST-01-1533** |
| Samples | 2 |

## LABORATORY DETAILS

| | |
|---|---|
| Manager | Huong Crawford |
| Laboratory | SGS Alexandria Environmental |
| Address | Unit 16, 33 Maddox St<br>Alexandria NSW 2015 |
| Telephone | +61 2 8594 0400 |
| Facsimile | +61 2 8594 0499 |
| Email | au.environmental.sydney@sgs.com |
| SGS Reference | **SE239861 R0** |
| Date Received | 28/11/2022 |
| Date Reported | 5/12/2022 |

## COMMENTS

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

## SIGNATORIES

**Akheeqar BENIAMEEN**
Chemist

**Dong LIANG**
Metals/Inorganics Team Leader

**Ly Kim HA**
Organic Section Head

**Teresa NGUYEN**
Organic Chemist

## VOCs in Water [AN433] Tested: 2/12/2022

| PARAMETER | UOM | LOR | ST-01-1533-GW4 (2) WATER - 25/11/2022 SE239861.001 | ST-01-1533-GW5 (2) WATER - 25/11/2022 SE239861.002 |
|---|---|---|---|---|
| Benzene | µg/L | 0.5 | <0.5 | <0.5 |
| Toluene | µg/L | 0.5 | <0.5 | <0.5 |
| Ethylbenzene | µg/L | 0.5 | <0.5 | <0.5 |
| m/p-xylene | µg/L | 1 | <1 | <1 |
| o-xylene | µg/L | 0.5 | <0.5 | <0.5 |
| Total Xylenes | µg/L | 1.5 | <1.5 | <1.5 |
| Total BTEX | µg/L | 3 | <3 | <3 |
| Naphthalene (VOC)* | µg/L | 0.5 | <0.5 | <0.5 |

## Volatile Petroleum Hydrocarbons in Water [AN433] Tested: 2/12/2022

| PARAMETER | UOM | LOR | ST-01-1533-GW4 (2) WATER - 25/11/2022 SE239861.001 | ST-01-1533-GW5 (2) WATER - 25/11/2022 SE239861.002 |
|---|---|---|---|---|
| TRH C6-C9 | µg/L | 40 | <40 | <40 |
| Benzene (F0) | µg/L | 0.5 | <0.5 | <0.5 |
| TRH C6-C10 | µg/L | 50 | <50 | <50 |
| TRH C6-C10 minus BTEX (F1) | µg/L | 50 | <50 | <50 |

## TRH (Total Recoverable Hydrocarbons) in Water [AN403] Tested: 1/12/2022

| PARAMETER | UOM | LOR | ST-01-1533-GW4 (2) WATER - 25/11/2022 SE239861.001 | ST-01-1533-GW5 (2) WATER - 25/11/2022 SE239861.002 |
|---|---|---|---|---|
| TRH C10-C14 | µg/L | 50 | <50 | <50 |
| TRH C15-C28 | µg/L | 200 | <200 | <200 |
| TRH C29-C36 | µg/L | 200 | <200 | <200 |
| TRH C37-C40 | µg/L | 200 | <200 | <200 |
| TRH >C10-C16 | µg/L | 60 | <60 | <60 |
| TRH >C10-C16 - Naphthalene (F2) | µg/L | 60 | <60 | <60 |
| TRH >C16-C34 (F3) | µg/L | 500 | <500 | <500 |
| TRH >C34-C40 (F4) | µg/L | 500 | <500 | <500 |
| TRH C10-C40 | µg/L | 320 | <320 | <320 |

## PAH (Polynuclear Aromatic Hydrocarbons) in Water [AN420] Tested: 1/12/2022

| PARAMETER | UOM | LOR | ST-01-1533-GW4 (2) WATER - 25/11/2022 SE239861.001 | ST-01-1533-GW5 (2) WATER - 25/11/2022 SE239861.002 |
|---|---|---|---|---|
| Naphthalene | µg/L | 0.1 | **0.1** | <0.1 |
| 2-methylnaphthalene | µg/L | 0.1 | <0.1 | <0.1 |
| 1-methylnaphthalene | µg/L | 0.1 | <0.1 | <0.1 |
| Acenaphthylene | µg/L | 0.1 | <0.1 | <0.1 |
| Acenaphthene | µg/L | 0.1 | <0.1 | <0.1 |
| Fluorene | µg/L | 0.1 | <0.1 | <0.1 |
| Phenanthrene | µg/L | 0.1 | <0.1 | <0.1 |
| Anthracene | µg/L | 0.1 | <0.1 | <0.1 |
| Fluoranthene | µg/L | 0.1 | <0.1 | <0.1 |
| Pyrene | µg/L | 0.1 | <0.1 | <0.1 |
| Benzo(a)anthracene | µg/L | 0.1 | <0.1 | <0.1 |
| Chrysene | µg/L | 0.1 | <0.1 | <0.1 |
| Benzo(b&j)fluoranthene | µg/L | 0.1 | <0.1 | <0.1 |
| Benzo(k)fluoranthene | µg/L | 0.1 | <0.1 | <0.1 |
| Benzo(a)pyrene | µg/L | 0.1 | <0.1 | <0.1 |
| Indeno(1,2,3-cd)pyrene | µg/L | 0.1 | <0.1 | <0.1 |
| Dibenzo(ah)anthracene | µg/L | 0.1 | <0.1 | <0.1 |
| Benzo(ghi)perylene | µg/L | 0.1 | <0.1 | <0.1 |
| Total PAH (18) | µg/L | 1 | <1 | <1 |

## OC Pesticides in Water [AN420] Tested: 1/12/2022

| PARAMETER | UOM | LOR | ST-01-1533-GW4 (2) WATER - 25/11/2022 SE239861.001 | ST-01-1533-GW5 (2) WATER - 25/11/2022 SE239861.002 |
|---|---|---|---|---|
| Alpha BHC | µg/L | 0.1 | <0.1 | <0.1 |
| Hexachlorobenzene (HCB) | µg/L | 0.1 | <0.1 | <0.1 |
| Beta BHC | µg/L | 0.1 | <0.1 | <0.1 |
| Lindane (gamma BHC) | µg/L | 0.1 | <0.1 | <0.1 |
| Delta BHC | µg/L | 0.1 | <0.1 | <0.1 |
| Heptachlor | µg/L | 0.1 | <0.1 | <0.1 |
| Aldrin | µg/L | 0.1 | <0.1 | <0.1 |
| Heptachlor epoxide | µg/L | 0.1 | <0.1 | <0.1 |
| Gamma Chlordane | µg/L | 0.1 | <0.1 | <0.1 |
| Alpha Chlordane | µg/L | 0.1 | <0.1 | <0.1 |
| Alpha Endosulfan | µg/L | 0.1 | <0.1 | <0.1 |
| o,p'-DDE | µg/L | 0.1 | <0.1 | <0.1 |
| p,p'-DDE | µg/L | 0.1 | <0.1 | <0.1 |
| Dieldrin | µg/L | 0.1 | <0.1 | <0.1 |
| Endrin | µg/L | 0.1 | <0.1 | <0.1 |
| Beta Endosulfan | µg/L | 0.1 | <0.1 | <0.1 |
| o,p'-DDD | µg/L | 0.1 | <0.1 | <0.1 |
| p,p'-DDD | µg/L | 0.1 | <0.1 | <0.1 |
| Endosulfan sulphate | µg/L | 0.1 | <0.1 | <0.1 |
| o,p'-DDT | µg/L | 0.1 | <0.1 | <0.1 |
| p,p'-DDT | µg/L | 0.1 | <0.1 | <0.1 |
| Endrin ketone | µg/L | 0.1 | <0.1 | <0.1 |
| Methoxychlor | µg/L | 0.1 | <0.1 | <0.1 |
| trans-Nonachlor | µg/L | 0.1 | <0.1 | <0.1 |
| Endrin aldehyde | µg/L | 0.1 | <0.1 | <0.1 |
| Isodrin | µg/L | 0.1 | <0.1 | <0.1 |
| Mirex | µg/L | 0.1 | <0.1 | <0.1 |
| Total OC | µg/L | 1 | <1 | <1 |
| Total OC | µg/L | 1 | <1 | <1 |

## OP Pesticides in Water [AN420] Tested: 1/12/2022

| PARAMETER | UOM | LOR | ST-01-1533-GW4 (2) WATER - 25/11/2022 SE239861.001 | ST-01-1533-GW5 (2) WATER - 25/11/2022 SE239861.002 |
|---|---|---|---|---|
| Dichlorvos | µg/L | 0.5 | <0.5 | <0.5 |
| Dimethoate | µg/L | 0.5 | <0.5 | <0.5 |
| Diazinon (Dimpylate) | µg/L | 0.5 | <0.5 | <0.5 |
| Fenitrothion | µg/L | 0.2 | <0.2 | <0.2 |
| Malathion | µg/L | 0.2 | <0.2 | <0.2 |
| Chlorpyrifos (Chlorpyrifos Ethyl) | µg/L | 0.2 | <0.2 | <0.2 |
| Parathion-ethyl (Parathion) | µg/L | 0.2 | <0.2 | <0.2 |
| Bromophos Ethyl | µg/L | 0.2 | <0.2 | <0.2 |
| Methidathion | µg/L | 0.5 | <0.5 | <0.5 |
| Ethion | µg/L | 0.2 | <0.2 | <0.2 |
| Azinphos-methyl | µg/L | 0.2 | <0.2 | <0.2 |

## PCBs in Water [AN420] Tested: 1/12/2022

| PARAMETER | UOM | LOR | ST-01-1533-GW4 (2) WATER - 25/11/2022 SE239861.001 | ST-01-1533-GW5 (2) WATER - 25/11/2022 SE239861.002 |
|---|---|---|---|---|
| Arochlor 1016 | µg/L | 1 | <1 | <1 |
| Arochlor 1221 | µg/L | 1 | <1 | <1 |
| Arochlor 1232 | µg/L | 1 | <1 | <1 |
| Arochlor 1242 | µg/L | 1 | <1 | <1 |
| Arochlor 1248 | µg/L | 1 | <1 | <1 |
| Arochlor 1254 | µg/L | 1 | <1 | <1 |
| Arochlor 1260 | µg/L | 1 | <1 | <1 |
| Arochlor 1262 | µg/L | 1 | <1 | <1 |
| Arochlor 1268 | µg/L | 1 | <1 | <1 |
| Total Arochlors* | µg/L | 5 | <5 | <5 |

## Trace Metals (Dissolved) in Water by ICPMS [AN318] Tested: 1/12/2022

| PARAMETER | UOM | LOR | ST-01-1533-GW4 (2) WATER - 25/11/2022 SE239861.001 | ST-01-1533-GW5 (2) WATER - 25/11/2022 SE239861.002 |
|---|---|---|---|---|
| Arsenic | µg/L | 1 | <1 | <1 |
| Cadmium | µg/L | 0.1 | <0.1 | <0.1 |
| Chromium | µg/L | 1 | <1 | **2** |
| Copper | µg/L | 1 | <1 | <1 |
| Lead | µg/L | 1 | <1 | <1 |
| Nickel | µg/L | 1 | **3** | <1 |
| Zinc | µg/L | 5 | <5 | <5 |

## Mercury (dissolved) in Water [AN311(Perth)/AN312] Tested: 1/12/2022

| PARAMETER | UOM | LOR | ST-01-1533-GW4 (2) WATER - 25/11/2022 SE239861.001 | ST-01-1533-GW5 (2) WATER - 25/11/2022 SE239861.002 |
|---|---|---|---|---|
| Mercury | mg/L | 0.0001 | <0.0001 | <0.0001 |

| METHOD | METHODOLOGY SUMMARY |
|---|---|
| AN020 | Unpreserved water sample is filtered through a 0.45µm membrane filter and acidified with nitric acid similar to APHA3030B. |
| AN311(Perth)/AN312 | Mercury by Cold Vapour AAS in Waters: Mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500. |
| AN318 | Determination of elements at trace level in waters by ICP-MS technique,, referenced to USEPA 6020B and USEPA 200.8 (5.4). |
| AN403 | Total Recoverable Hydrocarbons: Determination of Hydrocarbons by gas chromatography after a solvent extraction. Detection is by flame ionisation detector (FID) that produces an electronic signal in proportion to the combustible matter passing through it. Total Recoverable Hydrocarbons (TRH) are routinely reported as four alkane groupings based on the carbon chain length of the compounds: C6-C9, C10-C14, C15-C28 and C29-C36 and in recognition of the NEPM 1999 (2013), >C10-C16 (F2), >C16-C34 (F3) and >C34-C40 (F4). Where F2 is corrected for Naphthalene, the VOC data for Naphthalene is used. |
| AN403 | Additionally, the volatile C6-C9/C6-C10 fractions may be determined by a purge and trap technique and GC/MS because of the potential for volatiles loss. Total Recoveerable Hydrocarbons - Silica (TRH-Silica) 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).<br>Total PAH calculated from individual analyte detections at or above the limit of reporting . |
| 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. |

FOOTNOTES

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

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

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

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

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

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

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

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

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

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# STATEMENT OF QA/QC PERFORMANCE

SE239861 R0

## CLIENT DETAILS

| | |
|---|---|
| Contact | Kannan Kaliappan |
| Client | K2 CONSULTING GROUP |
| Address | SUITE 222, 20B LEXINGTON DRIVE<br>BELLA VISTA NSW 2153 |
| Telephone | 61 8 00 523 000 |
| Facsimile | (Not specified) |
| Email | kannan@k2consultinggroup.com.au |
| Project | **ST-01-1533(515 Crookwell Road,Kingsdale)** |
| Order Number | **ST-01-1533** |
| Samples | 2 |

## LABORATORY DETAILS

| | |
|---|---|
| Manager | Huong Crawford |
| Laboratory | SGS Alexandria Environmental |
| Address | Unit 16, 33 Maddox St<br>Alexandria NSW 2015 |
| Telephone | +61 2 8594 0400 |
| Facsimile | +61 2 8594 0499 |
| Email | au.environmental.sydney@sgs.com |
| SGS Reference | **SE239861 R0** |
| Date Received | 28 Nov 2022 |
| Date Reported | 05 Dec 2022 |

## COMMENTS

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

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

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

| | | |
|---|---|---|
| Duplicate | Trace Metals (Dissolved) in Water by ICPMS | 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 | 2 Water |
| Date documentation received | 28/11/2022 | Type of documentation received | COC |
| Samples received in good order | Yes | Samples received without headspace | Yes |
| Sample temperature upon receipt | 3.1°C | Sufficient sample for analysis | Yes |
| Turnaround time requested | Standard | | |

# HOLDING TIME SUMMARY

SE239861 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 (dissolved) in Water

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| ST-01-1533-GW4 (2) | SE239861.001 | LB265356 | 25 Nov 2022 | 28 Nov 2022 | 23 Dec 2022 | 01 Dec 2022 | 23 Dec 2022 | 01 Dec 2022 |
| ST-01-1533-GW5 (2) | SE239861.002 | LB265356 | 25 Nov 2022 | 28 Nov 2022 | 23 Dec 2022 | 01 Dec 2022 | 23 Dec 2022 | 01 Dec 2022 |

## OC Pesticides in Water

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| ST-01-1533-GW4 (2) | SE239861.001 | LB265361 | 25 Nov 2022 | 28 Nov 2022 | 02 Dec 2022 | 01 Dec 2022 | 10 Jan 2023 | 05 Dec 2022 |
| ST-01-1533-GW5 (2) | SE239861.002 | LB265361 | 25 Nov 2022 | 28 Nov 2022 | 02 Dec 2022 | 01 Dec 2022 | 10 Jan 2023 | 05 Dec 2022 |

## OP Pesticides in Water

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| ST-01-1533-GW4 (2) | SE239861.001 | LB265361 | 25 Nov 2022 | 28 Nov 2022 | 02 Dec 2022 | 01 Dec 2022 | 10 Jan 2023 | 05 Dec 2022 |
| ST-01-1533-GW5 (2) | SE239861.002 | LB265361 | 25 Nov 2022 | 28 Nov 2022 | 02 Dec 2022 | 01 Dec 2022 | 10 Jan 2023 | 05 Dec 2022 |

## PAH (Polynuclear Aromatic Hydrocarbons) in Water

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| ST-01-1533-GW4 (2) | SE239861.001 | LB265361 | 25 Nov 2022 | 28 Nov 2022 | 02 Dec 2022 | 01 Dec 2022 | 10 Jan 2023 | 05 Dec 2022 |
| ST-01-1533-GW5 (2) | SE239861.002 | LB265361 | 25 Nov 2022 | 28 Nov 2022 | 02 Dec 2022 | 01 Dec 2022 | 10 Jan 2023 | 05 Dec 2022 |

## PCBs in Water

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| ST-01-1533-GW4 (2) | SE239861.001 | LB265361 | 25 Nov 2022 | 28 Nov 2022 | 02 Dec 2022 | 01 Dec 2022 | 10 Jan 2023 | 05 Dec 2022 |
| ST-01-1533-GW5 (2) | SE239861.002 | LB265361 | 25 Nov 2022 | 28 Nov 2022 | 02 Dec 2022 | 01 Dec 2022 | 10 Jan 2023 | 05 Dec 2022 |

## Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| ST-01-1533-GW4 (2) | SE239861.001 | LB265354 | 25 Nov 2022 | 28 Nov 2022 | 24 May 2023 | 01 Dec 2022 | 24 May 2023 | 01 Dec 2022 |
| ST-01-1533-GW5 (2) | SE239861.002 | LB265354 | 25 Nov 2022 | 28 Nov 2022 | 24 May 2023 | 01 Dec 2022 | 24 May 2023 | 01 Dec 2022 |

## TRH (Total Recoverable Hydrocarbons) in Water

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| ST-01-1533-GW4 (2) | SE239861.001 | LB265361 | 25 Nov 2022 | 28 Nov 2022 | 02 Dec 2022 | 01 Dec 2022 | 10 Jan 2023 | 05 Dec 2022 |
| ST-01-1533-GW5 (2) | SE239861.002 | LB265361 | 25 Nov 2022 | 28 Nov 2022 | 02 Dec 2022 | 01 Dec 2022 | 10 Jan 2023 | 05 Dec 2022 |

## VOCs in Water

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| ST-01-1533-GW4 (2) | SE239861.001 | LB265466 | 25 Nov 2022 | 28 Nov 2022 | 09 Dec 2022 | 02 Dec 2022 | 09 Dec 2022 | 05 Dec 2022 |
| ST-01-1533-GW5 (2) | SE239861.002 | LB265466 | 25 Nov 2022 | 28 Nov 2022 | 09 Dec 2022 | 02 Dec 2022 | 09 Dec 2022 | 05 Dec 2022 |

## Volatile Petroleum Hydrocarbons in Water

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| ST-01-1533-GW4 (2) | SE239861.001 | LB265466 | 25 Nov 2022 | 28 Nov 2022 | 09 Dec 2022 | 02 Dec 2022 | 09 Dec 2022 | 05 Dec 2022 |
| ST-01-1533-GW5 (2) | SE239861.002 | LB265466 | 25 Nov 2022 | 28 Nov 2022 | 09 Dec 2022 | 02 Dec 2022 | 09 Dec 2022 | 05 Dec 2022 |

# SURROGATES

SE239861 R0

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

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

## OC Pesticides in Water

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| Tetrachloro-m-xylene (TCMX) (Surrogate) | ST-01-1533-GW4 (2) | SE239861.001 | % | 40 - 130% | 71 |
| | ST-01-1533-GW5 (2) | SE239861.002 | % | 40 - 130% | 56 |

## OP Pesticides in Water

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| 2-fluorobiphenyl (Surrogate) | ST-01-1533-GW4 (2) | SE239861.001 | % | 40 - 130% | 66 |
| | ST-01-1533-GW5 (2) | SE239861.002 | % | 40 - 130% | 50 |
| d14-p-terphenyl (Surrogate) | ST-01-1533-GW4 (2) | SE239861.001 | % | 40 - 130% | 84 |
| | ST-01-1533-GW5 (2) | SE239861.002 | % | 40 - 130% | 76 |

## PAH (Polynuclear Aromatic Hydrocarbons) in Water

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| 2-fluorobiphenyl (Surrogate) | ST-01-1533-GW4 (2) | SE239861.001 | % | 40 - 130% | 66 |
| | ST-01-1533-GW5 (2) | SE239861.002 | % | 40 - 130% | 50 |
| d14-p-terphenyl (Surrogate) | ST-01-1533-GW4 (2) | SE239861.001 | % | 40 - 130% | 84 |
| | ST-01-1533-GW5 (2) | SE239861.002 | % | 40 - 130% | 76 |
| d5-nitrobenzene (Surrogate) | ST-01-1533-GW4 (2) | SE239861.001 | % | 40 - 130% | 64 |
| | ST-01-1533-GW5 (2) | SE239861.002 | % | 40 - 130% | 48 |

## PCBs in Water

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| TCMX (Surrogate) | ST-01-1533-GW4 (2) | SE239861.001 | % | 40 - 130% | 71 |
| | ST-01-1533-GW5 (2) | SE239861.002 | % | 40 - 130% | 56 |

## VOCs in Water

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| Bromofluorobenzene (Surrogate) | ST-01-1533-GW4 (2) | SE239861.001 | % | 40 - 130% | 114 |
| | ST-01-1533-GW5 (2) | SE239861.002 | % | 40 - 130% | 114 |
| d4-1,2-dichloroethane (Surrogate) | ST-01-1533-GW4 (2) | SE239861.001 | % | 40 - 130% | 107 |
| | ST-01-1533-GW5 (2) | SE239861.002 | % | 40 - 130% | 107 |
| d8-toluene (Surrogate) | ST-01-1533-GW4 (2) | SE239861.001 | % | 40 - 130% | 112 |
| | ST-01-1533-GW5 (2) | SE239861.002 | % | 40 - 130% | 113 |

## Volatile Petroleum Hydrocarbons in Water

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| Bromofluorobenzene (Surrogate) | ST-01-1533-GW4 (2) | SE239861.001 | % | 40 - 130% | 114 |
| | ST-01-1533-GW5 (2) | SE239861.002 | % | 40 - 130% | 114 |
| d4-1,2-dichloroethane (Surrogate) | ST-01-1533-GW4 (2) | SE239861.001 | % | 60 - 130% | 107 |
| | ST-01-1533-GW5 (2) | SE239861.002 | % | 60 - 130% | 107 |
| d8-toluene (Surrogate) | ST-01-1533-GW4 (2) | SE239861.001 | % | 40 - 130% | 112 |
| | ST-01-1533-GW5 (2) | SE239861.002 | % | 40 - 130% | 113 |

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 (dissolved) in Water

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

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB265356.001 | Mercury | mg/L | 0.0001 | <0.0001 |

## OC Pesticides in Water

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

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB265361.001 | | Alpha BHC | µg/L | 0.1 | <0.1 |
| | | Hexachlorobenzene (HCB) | µg/L | 0.1 | <0.1 |
| | | Beta BHC | µg/L | 0.1 | <0.1 |
| | | Lindane (gamma BHC) | µg/L | 0.1 | <0.1 |
| | | Delta BHC | µg/L | 0.1 | <0.1 |
| | | Heptachlor | µg/L | 0.1 | <0.1 |
| | | Aldrin | µg/L | 0.1 | <0.1 |
| | | Isodrin | µg/L | 0.1 | <0.1 |
| | | Heptachlor epoxide | µg/L | 0.1 | <0.1 |
| | | Gamma Chlordane | µg/L | 0.1 | <0.1 |
| | | Alpha Chlordane | µg/L | 0.1 | <0.1 |
| | | Alpha Endosulfan | µg/L | 0.1 | <0.1 |
| | | p,p'-DDE | µg/L | 0.1 | <0.1 |
| | | Dieldrin | µg/L | 0.1 | <0.1 |
| | | Endrin | µg/L | 0.1 | <0.1 |
| | | Beta Endosulfan | µg/L | 0.1 | <0.1 |
| | | p,p'-DDD | µg/L | 0.1 | <0.1 |
| | | Endrin aldehyde | µg/L | 0.1 | <0.1 |
| | | Endosulfan sulphate | µg/L | 0.1 | <0.1 |
| | | p,p'-DDT | µg/L | 0.1 | <0.1 |
| | | Endrin ketone | µg/L | 0.1 | <0.1 |
| | | Methoxychlor | µg/L | 0.1 | <0.1 |
| | | Mirex | µg/L | 0.1 | <0.1 |
| | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | % | - | 43 |

## OP Pesticides in Water

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

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB265361.001 | | Azinphos-methyl | µg/L | 0.2 | <0.2 |
| | | Bromophos Ethyl | µg/L | 0.2 | <0.2 |
| | | Chlorpyrifos (Chlorpyrifos Ethyl) | µg/L | 0.2 | <0.2 |
| | | Diazinon (Dimpylate) | µg/L | 0.5 | <0.5 |
| | | Dichlorvos | µg/L | 0.5 | <0.5 |
| | | Dimethoate | µg/L | 0.5 | <0.5 |
| | | Ethion | µg/L | 0.2 | <0.2 |
| | | Fenitrothion | µg/L | 0.2 | <0.2 |
| | | Malathion | µg/L | 0.2 | <0.2 |
| | | Methidathion | µg/L | 0.5 | <0.5 |
| | | Parathion-ethyl (Parathion) | µg/L | 0.2 | <0.2 |
| | Surrogates | 2-fluorobiphenyl (Surrogate) | % | - | 68 |
| | | d14-p-terphenyl (Surrogate) | % | - | 76 |

## PAH (Polynuclear Aromatic Hydrocarbons) in Water

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

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB265361.001 | Naphthalene | µg/L | 0.1 | <0.1 |
| | 2-methylnaphthalene | µg/L | 0.1 | <0.1 |
| | 1-methylnaphthalene | µg/L | 0.1 | <0.1 |
| | Acenaphthylene | µg/L | 0.1 | <0.1 |
| | Acenaphthene | µg/L | 0.1 | <0.1 |
| | Fluorene | µg/L | 0.1 | <0.1 |
| | Phenanthrene | µg/L | 0.1 | <0.1 |
| | Anthracene | µg/L | 0.1 | <0.1 |
| | Fluoranthene | µg/L | 0.1 | <0.1 |
| | Pyrene | µg/L | 0.1 | <0.1 |
| | Benzo(a)anthracene | µg/L | 0.1 | <0.1 |
| | Chrysene | µg/L | 0.1 | <0.1 |
| | Benzo(a)pyrene | µg/L | 0.1 | <0.1 |

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

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

## PAH (Polynuclear Aromatic Hydrocarbons) in Water (continued)

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

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB265361.001 | | Indeno(1,2,3-cd)pyrene | µg/L | 0.1 | <0.1 |
| | | Dibenzo(ah)anthracene | µg/L | 0.1 | <0.1 |
| | | Benzo(ghi)perylene | µg/L | 0.1 | <0.1 |
| | Surrogates | d5-nitrobenzene (Surrogate) | % | - | 62 |
| | | 2-fluorobiphenyl (Surrogate) | % | - | 68 |
| | | d14-p-terphenyl (Surrogate) | % | - | 76 |

## PCBs in Water

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

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB265361.001 | Arochlor 1016 | µg/L | 1 | <1 |
| | Arochlor 1221 | µg/L | 1 | <1 |
| | Arochlor 1232 | µg/L | 1 | <1 |
| | Arochlor 1242 | µg/L | 1 | <1 |
| | Arochlor 1248 | µg/L | 1 | <1 |
| | Arochlor 1254 | µg/L | 1 | <1 |
| | Arochlor 1260 | µg/L | 1 | <1 |
| | Arochlor 1262 | µg/L | 1 | <1 |
| | Arochlor 1268 | µg/L | 1 | <1 |

## Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB265354.001 | Arsenic | µg/L | 1 | <1 |
| | Cadmium | µg/L | 0.1 | <0.1 |
| | Chromium | µg/L | 1 | <1 |
| | Copper | µg/L | 1 | <1 |
| | Lead | µg/L | 1 | <1 |
| | Nickel | µg/L | 1 | <1 |
| | Zinc | µg/L | 5 | <5 |

## TRH (Total Recoverable Hydrocarbons) in Water

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

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB265361.001 | TRH C10-C14 | µg/L | 50 | <50 |
| | TRH C15-C28 | µg/L | 200 | <200 |
| | TRH C29-C36 | µg/L | 200 | <200 |
| | TRH C37-C40 | µg/L | 200 | <200 |

## VOCs in Water

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

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB265466.001 | Monocyclic Aromatic Hydrocarbons | Benzene | µg/L | 0.5 | <0.5 |
| | | Toluene | µg/L | 0.5 | <0.5 |
| | | Ethylbenzene | µg/L | 0.5 | <0.5 |
| | | m/p-xylene | µg/L | 1 | <1 |
| | | o-xylene | µg/L | 0.5 | <0.5 |
| | Polycyclic VOCs | Naphthalene (VOC)* | µg/L | 0.5 | <0.5 |
| | Surrogates | d4-1,2-dichloroethane (Surrogate) | % | - | 104 |
| | | d8-toluene (Surrogate) | % | - | 103 |
| | | Bromofluorobenzene (Surrogate) | % | - | 110 |

## Volatile Petroleum Hydrocarbons in Water

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

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB265466.001 | | TRH C6-C9 | µg/L | 40 | <40 |
| | Surrogates | d4-1,2-dichloroethane (Surrogate) | % | - | 104 |
| | | d8-toluene (Surrogate) | % | - | 103 |
| | | Bromofluorobenzene (Surrogate) | % | - | 110 |

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

## Mercury (dissolved) in Water

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

| Original | Duplicate | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|
| SE239882.007 | LB265356.014 | Mercury | µg/L | 0.0001 | <0.0001 | <0.0001 | 200 | 0 |

## Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

| Original | Duplicate | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|
| SE239882.005 | LB265354.014 | Arsenic | µg/L | 1 | 3 | 3 | 51 | 3 |
| | | Cadmium | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Chromium | µg/L | 1 | <1 | <1 | 130 | 0 |
| | | Copper | µg/L | 1 | 2 | 3 | 55 | 9 |
| | | Lead | µg/L | 1 | 1 | 3 | 57 | 77 ③ |
| | | Nickel | µg/L | 1 | <1 | <1 | 153 | 0 |
| | | Zinc | µg/L | 5 | 11 | 12 | 59 | 13 |
| SE239882.007 | LB265354.017 | Arsenic | µg/L | 1 | <1 | <1 | 200 | 0 |
| | | Cadmium | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Chromium | µg/L | 1 | <1 | <1 | 200 | 0 |
| | | Copper | µg/L | 1 | <1 | <1 | 200 | 0 |
| | | Lead | µg/L | 1 | <1 | <1 | 200 | 0 |
| | | Nickel | µg/L | 1 | <1 | <1 | 200 | 0 |
| | | Zinc | µg/L | 5 | <5 | <5 | 200 | 0 |

## Volatile Petroleum Hydrocarbons in Water

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE239769.014 | LB265466.023 | | TRH C6-C10 | µg/L | 50 | <50 | <50 | 200 | 0 |
| | | | TRH C6-C9 | µg/L | 40 | <40 | <40 | 200 | 0 |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | µg/L | - | 10.5 | 10.7 | 30 | 3 |
| | | | d8-toluene (Surrogate) | µg/L | - | 11.2 | 11.1 | 30 | 1 |
| | | | Bromofluorobenzene (Surrogate) | µg/L | - | 11.6 | 12.0 | 30 | 4 |
| | | VPH F Bands | Benzene (F0) | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | TRH C6-C10 minus BTEX (F1) | µg/L | 50 | <50 | <50 | 200 | 0 |

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

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

## OC Pesticides in Water

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

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB265361.002 | | Delta BHC | µg/L | 0.1 | 0.1 | 0.2 | 60 - 140 | 67 |
| | | Heptachlor | µg/L | 0.1 | 0.1 | 0.2 | 60 - 140 | 70 |
| | | Aldrin | µg/L | 0.1 | 0.1 | 0.2 | 60 - 140 | 63 |
| | | Dieldrin | µg/L | 0.1 | 0.1 | 0.2 | 60 - 140 | 72 |
| | | Endrin | µg/L | 0.1 | 0.2 | 0.2 | 60 - 140 | 81 |
| | | p,p'-DDT | µg/L | 0.1 | 0.1 | 0.2 | 60 - 140 | 70 |
| | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | µg/L | - | 0.09 | 0.15 | 40 - 130 | 58 |

## OP Pesticides in Water

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

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB265361.002 | | Chlorpyrifos (Chlorpyrifos Ethyl) | µg/L | 0.2 | 7.5 | 8 | 60 - 140 | 93 |
| | | Diazinon (Dimpylate) | µg/L | 0.5 | 7.3 | 8 | 60 - 140 | 91 |
| | | Dichlorvos | µg/L | 0.5 | 7.0 | 8 | 60 - 140 | 87 |
| | | Ethion | µg/L | 0.2 | 6.8 | 8 | 60 - 140 | 84 |
| | Surrogates | 2-fluorobiphenyl (Surrogate) | µg/L | - | 0.4 | 0.5 | 40 - 130 | 70 |
| | | d14-p-terphenyl (Surrogate) | µg/L | - | 0.4 | 0.5 | 40 - 130 | 80 |

## PAH (Polynuclear Aromatic Hydrocarbons) in Water

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

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB265361.002 | | Naphthalene | µg/L | 0.1 | 29 | 40 | 60 - 140 | 72 |
| | | Acenaphthylene | µg/L | 0.1 | 34 | 40 | 60 - 140 | 84 |
| | | Acenaphthene | µg/L | 0.1 | 34 | 40 | 60 - 140 | 86 |
| | | Phenanthrene | µg/L | 0.1 | 35 | 40 | 60 - 140 | 86 |
| | | Anthracene | µg/L | 0.1 | 33 | 40 | 60 - 140 | 83 |
| | | Fluoranthene | µg/L | 0.1 | 35 | 40 | 60 - 140 | 86 |
| | | Pyrene | µg/L | 0.1 | 36 | 40 | 60 - 140 | 89 |
| | | Benzo(a)pyrene | µg/L | 0.1 | 38 | 40 | 60 - 140 | 94 |
| | Surrogates | d5-nitrobenzene (Surrogate) | µg/L | - | 0.3 | 0.5 | 40 - 130 | 56 |
| | | 2-fluorobiphenyl (Surrogate) | µg/L | - | 0.4 | 0.5 | 40 - 130 | 70 |
| | | d14-p-terphenyl (Surrogate) | µg/L | - | 0.4 | 0.5 | 40 - 130 | 80 |

## PCBs in Water

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

| Sample Number | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|
| LB265361.002 | Arochlor 1260 | µg/L | 1 | <1 | 0.4 | 60 - 140 | 96 |

## Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

| Sample Number | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|
| LB265354.002 | Arsenic | µg/L | 1 | 20 | 20 | 80 - 120 | 99 |
| | Cadmium | µg/L | 0.1 | 20 | 20 | 80 - 120 | 101 |
| | Chromium | µg/L | 1 | 20 | 20 | 80 - 120 | 98 |
| | Copper | µg/L | 1 | 20 | 20 | 80 - 120 | 101 |
| | Lead | µg/L | 1 | 20 | 20 | 80 - 120 | 101 |
| | Nickel | µg/L | 1 | 20 | 20 | 80 - 120 | 100 |
| | Zinc | µg/L | 5 | 21 | 20 | 80 - 120 | 103 |

## TRH (Total Recoverable Hydrocarbons) in Water

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

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB265361.002 | | TRH C10-C14 | µg/L | 50 | 1100 | 1200 | 60 - 140 | 88 |
| | | TRH C15-C28 | µg/L | 200 | 1000 | 1200 | 60 - 140 | 85 |
| | | TRH C29-C36 | µg/L | 200 | 1100 | 1200 | 60 - 140 | 88 |
| | TRH F Bands | TRH >C10-C16 | µg/L | 60 | 920 | 1200 | 60 - 140 | 77 |
| | | TRH >C16-C34 (F3) | µg/L | 500 | 1100 | 1200 | 60 - 140 | 92 |
| | | TRH >C34-C40 (F4) | µg/L | 500 | 520 | 600 | 60 - 140 | 87 |

## VOCs in Water

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

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB265466.002 | Monocyclic | Benzene | µg/L | 0.5 | 52 | 45.45 | 60 - 140 | 114 |
| | Aromatic | Toluene | µg/L | 0.5 | 49 | 45.45 | 60 - 140 | 108 |
| | | Ethylbenzene | µg/L | 0.5 | 51 | 45.45 | 60 - 140 | 111 |
| | | m/p-xylene | µg/L | 1 | 100 | 90.9 | 60 - 140 | 113 |
| | | o-xylene | µg/L | 0.5 | 51 | 45.45 | 60 - 140 | 112 |
| | Surrogates | d4-1,2-dichloroethane (Surrogate) | µg/L | - | 11.8 | 10 | 60 - 140 | 118 |

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.

## VOCs in Water (continued)

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

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB265466.002 | Surrogates | d8-toluene (Surrogate) | µg/L | - | 11.2 | 10 | 70 - 130 | 112 |
| | | Bromofluorobenzene (Surrogate) | µg/L | - | 10.8 | 10 | 70 - 130 | 108 |

## Volatile Petroleum Hydrocarbons in Water

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

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB265466.002 | | TRH C6-C10 | µg/L | 50 | 1100 | 946.63 | 60 - 140 | 112 |
| | | TRH C6-C9 | µg/L | 40 | 920 | 818.71 | 60 - 140 | 112 |
| | Surrogates | d4-1,2-dichloroethane (Surrogate) | µg/L | - | 11.8 | 10 | 60 - 140 | 118 |
| | | d8-toluene (Surrogate) | µg/L | - | 11.2 | 10 | 70 - 130 | 112 |
| | | Bromofluorobenzene (Surrogate) | µg/L | - | 10.8 | 10 | 70 - 130 | 108 |
| | VPH F Bands | TRH C6-C10 minus BTEX (F1) | µg/L | 50 | 750 | 639.67 | 60 - 140 | 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 identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

## Mercury (dissolved) in Water

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

| QC Sample | Sample Number | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|
| SE239855.001 | LB265356.004 | Mercury | mg/L | 0.0001 | 0.0019 | -0.014 | 0.008 | 96 |

## Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

| QC Sample | Sample Number | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|
| SE239348B.003 | LB265354.004 | Arsenic | µg/L | 1 | 22 | 1 | 20 | 106 |
| | | Cadmium | µg/L | 0.1 | 21 | <0.1 | 20 | 105 |
| | | Chromium | µg/L | 1 | 23 | 3 | 20 | 98 |
| | | Copper | µg/L | 1 | 24 | 4 | 20 | 101 |
| | | Lead | µg/L | 1 | 21 | <1 | 20 | 103 |
| | | Zinc | µg/L | 5 | 56 | 35 | 20 | 105 |

# MATRIX SPIKE DUPLICATES

SE239861 R0

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The original result is the analyte concentration of the matrix spike. The Duplicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the

No matrix spike duplicates were required for this job.

Samples analysed as received.

Solid samples expressed on a dry weight basis.

QC criteria are subject to internal review according to the SGS QA/QC plan and may be provided on request or alternatively can be found here: https://www.sgs.com.au/~/media/Local/Australia/Documents/Technical Documents/MP-AU-ENV-QU-022 QA QC Plan.pdf

| | |
|---|---|
| * | NATA accreditation does not cover the performance of this service. |
| ** | Indicative data, theoretical holding time exceeded. |
| *** | Indicates that both * and ** apply. |
| - | Sample not analysed for this analyte. |
| IS | Insufficient sample for analysis. |
| LNR | Sample listed, but not received. |
| LOR | Limit of reporting. |
| QFH | QC result is above the upper tolerance. |
| QFL | QC result is below the lower tolerance. |
| ① | At least 2 of 3 surrogates are within acceptance criteria. |
| ② | RPD failed acceptance criteria due to sample heterogeneity. |
| ③ | Results less than 5 times LOR preclude acceptance criteria for RPD. |
| ④ | Recovery failed acceptance criteria due to matrix interference. |
| ⑤ | Recovery failed acceptance criteria due to the presence of significant concentration of analyte (i.e. the concentration of analyte exceeds the spike level). |
| ⑥ | LOR was raised due to sample matrix interference. |
| ⑦ | LOR was raised due to dilution of significantly high concentration of analyte in sample. |
| ⑧ | Reanalysis of sample in duplicate confirmed sample heterogeneity and inconsistency of results. |
| ⑨ | Recovery failed acceptance criteria due to sample heterogeneity. |
| ⑩ | LOR was raised due to high conductivity of the sample (required dilution). |
| † | Refer to relevant report comments for further information. |

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source: Sydney.pdf page: 1 SGS Ref: SE239861_COC

# CHAIN OF CUSTODY & ANALYSIS REQUEST

Page_____of_____

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

| | | | |
|---|---|---|---|
| Company Name: | K2 Consulting Group | Project Name/No: | ST-01-1533 (515 Crookwell Road, Kingsdale NSW 2580) |
| Address: | Suite 222 (Building B) | Purchase Order No: | |
| | 20 Lexington Drive, Bella Vista NSW 2153 | Results Required By: | 5 Days TAT |
| | | Telephone : | 0449 669 559 |
| Contact Name: | Kannan Kaliappan | Facsimile: | |
| | | Email Results: | kannan@k2consultinggroup.com.au; sirish@k2consultinggroup.com.au |

| Client Sample ID | Date Sampled | Lab Sample ID | WATER | No. of Containers | CL17 (BTEXN/TRH/PAH/OC/OP/PCB/8HM) |
|---|---|---|---|---|---|
| ST-01-1533-GW4 (2) | 25/11/2022 | 1 | X | 4 | X |
| ST-01-1533-GW5 (2) | 25/11/2022 | 2 | X | 4 | X |

SGS EHS Sydney COC
**SE239861**

| | | | |
|---|---|---|---|
| Relinquished By: Sirish Baniya | Date/Time:28/11/2022 | Received By: | Date/Time 28/11/22 @ 5.00 |
| Relinquished By: | Date/Time: | Received By: | Date/Time |
| Samples Intact: Yes/ No | Temperature: Ambient / Chilled | Sample Cooler Sealed: Yes/ No | Laboratory Quotation No: |

Comments:

# ANALYTICAL REPORT

Accreditation No. 2562

## CLIENT DETAILS

| | |
|---|---|
| Contact | Kannan Kaliappan |
| Client | K2 CONSULTING GROUP |
| Address | SUITE 222, 20B LEXINGTON DRIVE<br>BELLA VISTA NSW 2153 |
| Telephone | 61 8 00 523 000 |
| Facsimile | (Not specified) |
| Email | kannan@k2consultinggroup.com.au |
| Project | **ST-01-1533 (515 Crookwell Road, Kingsdal** |
| Order Number | **ST-01-1533** |
| Samples | 2 |

## LABORATORY DETAILS

| | |
|---|---|
| Manager | Huong Crawford |
| Laboratory | SGS Alexandria Environmental |
| Address | Unit 16, 33 Maddox St<br>Alexandria NSW 2015 |
| Telephone | +61 2 8594 0400 |
| Facsimile | +61 2 8594 0499 |
| Email | au.environmental.sydney@sgs.com |
| SGS Reference | **SE239401 R0** |
| Date Received | 21/11/2022 |
| Date Reported | 28/11/2022 |

## COMMENTS

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

## SIGNATORIES

**Dong LIANG**
Metals/Inorganics Team Leader

**Ly Kim HA**
Organic Section Head

**Teresa NGUYEN**
Organic Chemist

## VOCs in Water [AN433] Tested: 24/11/2022

| PARAMETER | UOM | LOR | ST-01-1533-GW4<br>WATER<br>-<br>18/11/2022<br>SE239401.001 | ST-01-1533-GW5<br>WATER<br>-<br>18/11/2022<br>SE239401.002 |
|---|---|---|---|---|
| Benzene | µg/L | 0.5 | <0.5 | <0.5 |
| Toluene | µg/L | 0.5 | <0.5 | <0.5 |
| Ethylbenzene | µg/L | 0.5 | <0.5 | <0.5 |
| m/p-xylene | µg/L | 1 | <1 | <1 |
| o-xylene | µg/L | 0.5 | <0.5 | <0.5 |
| Total Xylenes | µg/L | 1.5 | <1.5 | <1.5 |
| Total BTEX | µg/L | 3 | <3 | <3 |
| Naphthalene (VOC)* | µg/L | 0.5 | <0.5 | <0.5 |

## Volatile Petroleum Hydrocarbons in Water [AN433] Tested: 24/11/2022

| PARAMETER | UOM | LOR | ST-01-1533-GW4<br>WATER<br>-<br>18/11/2022<br>SE239401.001 | ST-01-1533-GW5<br>WATER<br>-<br>18/11/2022<br>SE239401.002 |
|---|---|---|---|---|
| TRH C6-C9 | µg/L | 40 | <40 | <40 |
| Benzene (F0) | µg/L | 0.5 | <0.5 | <0.5 |
| TRH C6-C10 | µg/L | 50 | <50 | <50 |
| TRH C6-C10 minus BTEX (F1) | µg/L | 50 | <50 | <50 |

## TRH (Total Recoverable Hydrocarbons) in Water [AN403] Tested: 23/11/2022

| PARAMETER | UOM | LOR | ST-01-1533-GW4<br>WATER<br>-<br>18/11/2022<br>SE239401.001 | ST-01-1533-GW5<br>WATER<br>-<br>18/11/2022<br>SE239401.002 |
|---|---|---|---|---|
| TRH C10-C14 | µg/L | 50 | **55** | <50 |
| TRH C15-C28 | µg/L | 200 | <200 | <200 |
| TRH C29-C36 | µg/L | 200 | <200 | <200 |
| TRH C37-C40 | µg/L | 200 | <200 | <200 |
| TRH >C10-C16 | µg/L | 60 | **61** | <60 |
| TRH >C10-C16 - Naphthalene (F2) | µg/L | 60 | **61** | <60 |
| TRH >C16-C34 (F3) | µg/L | 500 | <500 | <500 |
| TRH >C34-C40 (F4) | µg/L | 500 | <500 | <500 |
| TRH C10-C40 | µg/L | 320 | <320 | <320 |

## PAH (Polynuclear Aromatic Hydrocarbons) in Water [AN420] Tested: 23/11/2022

| PARAMETER | UOM | LOR | ST-01-1533-GW4<br>WATER<br>-<br>18/11/2022<br>SE239401.001 | ST-01-1533-GW5<br>WATER<br>-<br>18/11/2022<br>SE239401.002 |
|---|---|---|---|---|
| Naphthalene | µg/L | 0.1 | <0.1 | <0.1 |
| 2-methylnaphthalene | µg/L | 0.1 | <0.1 | <0.1 |
| 1-methylnaphthalene | µg/L | 0.1 | <0.1 | <0.1 |
| Acenaphthylene | µg/L | 0.1 | <0.1 | <0.1 |
| Acenaphthene | µg/L | 0.1 | <0.1 | <0.1 |
| Fluorene | µg/L | 0.1 | <0.1 | <0.1 |
| Phenanthrene | µg/L | 0.1 | <0.1 | <0.1 |
| Anthracene | µg/L | 0.1 | <0.1 | <0.1 |
| Fluoranthene | µg/L | 0.1 | <0.1 | <0.1 |
| Pyrene | µg/L | 0.1 | <0.1 | <0.1 |
| Benzo(a)anthracene | µg/L | 0.1 | <0.1 | <0.1 |
| Chrysene | µg/L | 0.1 | <0.1 | <0.1 |
| Benzo(b&j)fluoranthene | µg/L | 0.1 | <0.1 | <0.1 |
| Benzo(k)fluoranthene | µg/L | 0.1 | <0.1 | <0.1 |
| Benzo(a)pyrene | µg/L | 0.1 | <0.1 | <0.1 |
| Indeno(1,2,3-cd)pyrene | µg/L | 0.1 | <0.1 | <0.1 |
| Dibenzo(ah)anthracene | µg/L | 0.1 | <0.1 | <0.1 |
| Benzo(ghi)perylene | µg/L | 0.1 | <0.1 | <0.1 |
| Total PAH (18) | µg/L | 1 | <1 | <1 |

## OC Pesticides in Water [AN420] Tested: 23/11/2022

| PARAMETER | UOM | LOR | ST-01-1533-GW4 WATER - 18/11/2022 SE239401.001 | ST-01-1533-GW5 WATER - 18/11/2022 SE239401.002 |
|---|---|---|---|---|
| Alpha BHC | µg/L | 0.1 | <0.1 | <0.1 |
| Hexachlorobenzene (HCB) | µg/L | 0.1 | <0.1 | <0.1 |
| Beta BHC | µg/L | 0.1 | <0.1 | <0.1 |
| Lindane (gamma BHC) | µg/L | 0.1 | <0.1 | <0.1 |
| Delta BHC | µg/L | 0.1 | <0.1 | <0.1 |
| Heptachlor | µg/L | 0.1 | <0.1 | <0.1 |
| Aldrin | µg/L | 0.1 | <0.1 | <0.1 |
| Heptachlor epoxide | µg/L | 0.1 | <0.1 | <0.1 |
| Gamma Chlordane | µg/L | 0.1 | <0.1 | <0.1 |
| Alpha Chlordane | µg/L | 0.1 | <0.1 | <0.1 |
| Alpha Endosulfan | µg/L | 0.1 | <0.1 | <0.1 |
| o,p'-DDE | µg/L | 0.1 | <0.1 | <0.1 |
| p,p'-DDE | µg/L | 0.1 | <0.1 | <0.1 |
| Dieldrin | µg/L | 0.1 | <0.1 | <0.1 |
| Endrin | µg/L | 0.1 | <0.1 | <0.1 |
| Beta Endosulfan | µg/L | 0.1 | <0.1 | <0.1 |
| o,p'-DDD | µg/L | 0.1 | <0.1 | <0.1 |
| p,p'-DDD | µg/L | 0.1 | <0.1 | <0.1 |
| Endosulfan sulphate | µg/L | 0.1 | <0.1 | <0.1 |
| o,p'-DDT | µg/L | 0.1 | <0.1 | <0.1 |
| p,p'-DDT | µg/L | 0.1 | <0.1 | <0.1 |
| Endrin ketone | µg/L | 0.1 | <0.1 | <0.1 |
| Methoxychlor | µg/L | 0.1 | <0.1 | <0.1 |
| trans-Nonachlor | µg/L | 0.1 | <0.1 | <0.1 |
| Endrin aldehyde | µg/L | 0.1 | <0.1 | <0.1 |
| Isodrin | µg/L | 0.1 | <0.1 | <0.1 |
| Mirex | µg/L | 0.1 | <0.1 | <0.1 |
| Total OC | µg/L | 1 | <1 | <1 |
| Total OC | µg/L | 1 | <1 | <1 |

## OP Pesticides in Water [AN420] Tested: 23/11/2022

| PARAMETER | UOM | LOR | ST-01-1533-GW4 WATER - 18/11/2022 SE239401.001 | ST-01-1533-GW5 WATER - 18/11/2022 SE239401.002 |
|---|---|---|---|---|
| Dichlorvos | µg/L | 0.5 | <0.5 | <0.5 |
| Dimethoate | µg/L | 0.5 | <0.5 | <0.5 |
| Diazinon (Dimpylate) | µg/L | 0.5 | <0.5 | <0.5 |
| Fenitrothion | µg/L | 0.2 | <0.2 | <0.2 |
| Malathion | µg/L | 0.2 | <0.2 | <0.2 |
| Chlorpyrifos (Chlorpyrifos Ethyl) | µg/L | 0.2 | <0.2 | <0.2 |
| Parathion-ethyl (Parathion) | µg/L | 0.2 | <0.2 | <0.2 |
| Bromophos Ethyl | µg/L | 0.2 | <0.2 | <0.2 |
| Methidathion | µg/L | 0.5 | <0.5 | <0.5 |
| Ethion | µg/L | 0.2 | <0.2 | <0.2 |
| Azinphos-methyl | µg/L | 0.2 | <0.2 | <0.2 |

## PCBs in Water [AN420] Tested: 23/11/2022

| PARAMETER | UOM | LOR | ST-01-1533-GW4<br>WATER<br>-<br>18/11/2022<br>SE239401.001 | ST-01-1533-GW5<br>WATER<br>-<br>18/11/2022<br>SE239401.002 |
|---|---|---|---|---|
| Arochlor 1016 | µg/L | 1 | <1 | <1 |
| Arochlor 1221 | µg/L | 1 | <1 | <1 |
| Arochlor 1232 | µg/L | 1 | <1 | <1 |
| Arochlor 1242 | µg/L | 1 | <1 | <1 |
| Arochlor 1248 | µg/L | 1 | <1 | <1 |
| Arochlor 1254 | µg/L | 1 | <1 | <1 |
| Arochlor 1260 | µg/L | 1 | <1 | <1 |
| Arochlor 1262 | µg/L | 1 | <1 | <1 |
| Arochlor 1268 | µg/L | 1 | <1 | <1 |
| Total Arochlors* | µg/L | 5 | <5 | <5 |

## Trace Metals (Dissolved) in Water by ICPMS [AN318] Tested: 23/11/2022

| PARAMETER | UOM | LOR | ST-01-1533-GW4<br>WATER<br>-<br>18/11/2022<br>SE239401.001 | ST-01-1533-GW5<br>WATER<br>-<br>18/11/2022<br>SE239401.002 |
|---|---|---|---|---|
| Arsenic | µg/L | 1 | <1 | <1 |
| Cadmium | µg/L | 0.1 | <0.1 | <0.1 |
| Chromium | µg/L | 1 | <1 | **2** |
| Copper | µg/L | 1 | **1** | <1 |
| Lead | µg/L | 1 | <1 | <1 |
| Nickel | µg/L | 1 | **2** | **2** |
| Zinc | µg/L | 5 | <5 | <5 |

## Mercury (dissolved) in Water [AN311(Perth)/AN312] Tested: 23/11/2022

| PARAMETER | UOM | LOR | ST-01-1533-GW4<br>WATER<br>-<br>18/11/2022<br>SE239401.001 | ST-01-1533-GW5<br>WATER<br>-<br>18/11/2022<br>SE239401.002 |
|---|---|---|---|---|
| Mercury | mg/L | 0.0001 | <0.0001 | <0.0001 |

| METHOD | METHODOLOGY SUMMARY |
|---|---|
| AN020 | Unpreserved water sample is filtered through a 0.45µm membrane filter and acidified with nitric acid similar to APHA3030B. |
| AN311(Perth)/AN312 | Mercury by Cold Vapour AAS in Waters: Mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500. |
| AN318 | Determination of elements at trace level in waters by ICP-MS technique,, referenced to USEPA 6020B and USEPA 200.8 (5.4). |
| AN403 | Total Recoverable Hydrocarbons: Determination of Hydrocarbons by gas chromatography after a solvent extraction. Detection is by flame ionisation detector (FID) that produces an electronic signal in proportion to the combustible matter passing through it. Total Recoverable Hydrocarbons (TRH) are routinely reported as four alkane groupings based on the carbon chain length of the compounds: C6-C9, C10-C14, C15-C28 and C29-C36 and in recognition of the NEPM 1999 (2013), >C10-C16 (F2), >C16-C34 (F3) and >C34-C40 (F4). Where F2 is corrected for Naphthalene, the VOC data for Naphthalene is used. |
| AN403 | Additionally, the volatile C6-C9/C6-C10 fractions may be determined by a purge and trap technique and GC/MS because of the potential for volatiles loss. Total Recoveerable Hydrocarbons - Silica (TRH-Silica) 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).<br>Total PAH calculated from individual analyte detections at or above the limit of reporting. |
| 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. |

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:

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

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

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

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

# STATEMENT OF QA/QC PERFORMANCE

**SE239401 R0**

## CLIENT DETAILS

| | |
|---|---|
| Contact | Kannan Kaliappan |
| Client | K2 CONSULTING GROUP |
| Address | SUITE 222, 20B LEXINGTON DRIVE<br>BELLA VISTA NSW 2153 |
| Telephone | 61 8 00 523 000 |
| Facsimile | (Not specified) |
| Email | kannan@k2consultinggroup.com.au |
| Project | **ST-01-1533 (515 Crookwell Road, Kingsdal** |
| Order Number | **ST-01-1533** |
| Samples | 2 |

## LABORATORY DETAILS

| | |
|---|---|
| Manager | Huong Crawford |
| Laboratory | SGS Alexandria Environmental |
| Address | Unit 16, 33 Maddox St<br>Alexandria NSW 2015 |
| Telephone | +61 2 8594 0400 |
| Facsimile | +61 2 8594 0499 |
| Email | au.environmental.sydney@sgs.com |
| SGS Reference | **SE239401 R0** |
| Date Received | 21 Nov 2022 |
| Date Reported | 28 Nov 2022 |

## COMMENTS

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

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

All Data Quality Objectives were met (within the SGS Alexandria Environmental laboratory).

## SAMPLE SUMMARY

| | | | |
|---|---|---|---|
| Samples clearly labelled | Yes | Complete documentation received | Yes |
| Sample container provider | SGS | Sample cooling method | Ice Bricks |
| Samples received in correct containers | Yes | Sample counts by matrix | 2 Water |
| Date documentation received | 21/11/2022 | Type of documentation received | COC |
| Number of eskies/boxes received | | Samples received in good order | Yes |
| Samples received without headspace | Yes | Sample temperature upon receipt | 9.1°C |
| Sufficient sample for analysis | Yes | Turnaround time requested | Standard |

# HOLDING TIME SUMMARY

SE239401 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 (dissolved) in Water** — Method: ME-(AU)-[ENV]AN311(Perth)/AN312

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| ST-01-1533-GW4 | SE239401.001 | LB264577 | 18 Nov 2022 | 21 Nov 2022 | 16 Dec 2022 | 23 Nov 2022 | 16 Dec 2022 | 23 Nov 2022 |
| ST-01-1533-GW5 | SE239401.002 | LB264577 | 18 Nov 2022 | 21 Nov 2022 | 16 Dec 2022 | 23 Nov 2022 | 16 Dec 2022 | 23 Nov 2022 |

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| ST-01-1533-GW4 | SE239401.001 | LB264576 | 18 Nov 2022 | 21 Nov 2022 | 25 Nov 2022 | 23 Nov 2022 | 02 Jan 2023 | 28 Nov 2022 |
| ST-01-1533-GW5 | SE239401.002 | LB264576 | 18 Nov 2022 | 21 Nov 2022 | 25 Nov 2022 | 23 Nov 2022 | 02 Jan 2023 | 28 Nov 2022 |

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| ST-01-1533-GW4 | SE239401.001 | LB264576 | 18 Nov 2022 | 21 Nov 2022 | 25 Nov 2022 | 23 Nov 2022 | 02 Jan 2023 | 28 Nov 2022 |
| ST-01-1533-GW5 | SE239401.002 | LB264576 | 18 Nov 2022 | 21 Nov 2022 | 25 Nov 2022 | 23 Nov 2022 | 02 Jan 2023 | 28 Nov 2022 |

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| ST-01-1533-GW4 | SE239401.001 | LB264576 | 18 Nov 2022 | 21 Nov 2022 | 25 Nov 2022 | 23 Nov 2022 | 02 Jan 2023 | 28 Nov 2022 |
| ST-01-1533-GW5 | SE239401.002 | LB264576 | 18 Nov 2022 | 21 Nov 2022 | 25 Nov 2022 | 23 Nov 2022 | 02 Jan 2023 | 28 Nov 2022 |

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| ST-01-1533-GW4 | SE239401.001 | LB264576 | 18 Nov 2022 | 21 Nov 2022 | 25 Nov 2022 | 23 Nov 2022 | 02 Jan 2023 | 28 Nov 2022 |
| ST-01-1533-GW5 | SE239401.002 | LB264576 | 18 Nov 2022 | 21 Nov 2022 | 25 Nov 2022 | 23 Nov 2022 | 02 Jan 2023 | 28 Nov 2022 |

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| ST-01-1533-GW4 | SE239401.001 | LB264564 | 18 Nov 2022 | 21 Nov 2022 | 17 May 2023 | 23 Nov 2022 | 17 May 2023 | 23 Nov 2022 |
| ST-01-1533-GW5 | SE239401.002 | LB264564 | 18 Nov 2022 | 21 Nov 2022 | 17 May 2023 | 23 Nov 2022 | 17 May 2023 | 23 Nov 2022 |

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| ST-01-1533-GW4 | SE239401.001 | LB264576 | 18 Nov 2022 | 21 Nov 2022 | 25 Nov 2022 | 23 Nov 2022 | 02 Jan 2023 | 28 Nov 2022 |
| ST-01-1533-GW5 | SE239401.002 | LB264576 | 18 Nov 2022 | 21 Nov 2022 | 25 Nov 2022 | 23 Nov 2022 | 02 Jan 2023 | 28 Nov 2022 |

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| ST-01-1533-GW4 | SE239401.001 | LB264773 | 18 Nov 2022 | 21 Nov 2022 | 02 Dec 2022 | 24 Nov 2022 | 02 Dec 2022 | 25 Nov 2022 |
| ST-01-1533-GW5 | SE239401.002 | LB264773 | 18 Nov 2022 | 21 Nov 2022 | 02 Dec 2022 | 24 Nov 2022 | 02 Dec 2022 | 25 Nov 2022 |

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| ST-01-1533-GW4 | SE239401.001 | LB264773 | 18 Nov 2022 | 21 Nov 2022 | 02 Dec 2022 | 24 Nov 2022 | 02 Dec 2022 | 25 Nov 2022 |
| ST-01-1533-GW5 | SE239401.002 | LB264773 | 18 Nov 2022 | 21 Nov 2022 | 02 Dec 2022 | 24 Nov 2022 | 02 Dec 2022 | 25 Nov 2022 |

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

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

### OC Pesticides in Water

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| Tetrachloro-m-xylene (TCMX) (Surrogate) | ST-01-1533-GW4 | SE239401.001 | % | 40 - 130% | 57 |
| | ST-01-1533-GW5 | SE239401.002 | % | 40 - 130% | 69 |

### OP Pesticides in Water

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| 2-fluorobiphenyl (Surrogate) | ST-01-1533-GW4 | SE239401.001 | % | 40 - 130% | 52 |
| | ST-01-1533-GW5 | SE239401.002 | % | 40 - 130% | 54 |
| d14-p-terphenyl (Surrogate) | ST-01-1533-GW4 | SE239401.001 | % | 40 - 130% | 64 |
| | ST-01-1533-GW5 | SE239401.002 | % | 40 - 130% | 74 |

### PAH (Polynuclear Aromatic Hydrocarbons) in Water

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| 2-fluorobiphenyl (Surrogate) | ST-01-1533-GW4 | SE239401.001 | % | 40 - 130% | 52 |
| | ST-01-1533-GW5 | SE239401.002 | % | 40 - 130% | 54 |
| d14-p-terphenyl (Surrogate) | ST-01-1533-GW4 | SE239401.001 | % | 40 - 130% | 64 |
| | ST-01-1533-GW5 | SE239401.002 | % | 40 - 130% | 74 |
| d5-nitrobenzene (Surrogate) | ST-01-1533-GW4 | SE239401.001 | % | 40 - 130% | 42 |
| | ST-01-1533-GW5 | SE239401.002 | % | 40 - 130% | 58 |

### PCBs in Water

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| TCMX (Surrogate) | ST-01-1533-GW4 | SE239401.001 | % | 40 - 130% | 57 |
| | ST-01-1533-GW5 | SE239401.002 | % | 40 - 130% | 69 |

### VOCs in Water

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| Bromofluorobenzene (Surrogate) | ST-01-1533-GW4 | SE239401.001 | % | 40 - 130% | 108 |
| | ST-01-1533-GW5 | SE239401.002 | % | 40 - 130% | 109 |
| d4-1,2-dichloroethane (Surrogate) | ST-01-1533-GW4 | SE239401.001 | % | 40 - 130% | 83 |
| | ST-01-1533-GW5 | SE239401.002 | % | 40 - 130% | 89 |
| d8-toluene (Surrogate) | ST-01-1533-GW4 | SE239401.001 | % | 40 - 130% | 97 |
| | ST-01-1533-GW5 | SE239401.002 | % | 40 - 130% | 103 |

### Volatile Petroleum Hydrocarbons in Water

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| Bromofluorobenzene (Surrogate) | ST-01-1533-GW4 | SE239401.001 | % | 40 - 130% | 108 |
| | ST-01-1533-GW5 | SE239401.002 | % | 40 - 130% | 109 |
| d4-1,2-dichloroethane (Surrogate) | ST-01-1533-GW4 | SE239401.001 | % | 60 - 130% | 83 |
| | ST-01-1533-GW5 | SE239401.002 | % | 60 - 130% | 89 |
| d8-toluene (Surrogate) | ST-01-1533-GW4 | SE239401.001 | % | 40 - 130% | 97 |
| | ST-01-1533-GW5 | SE239401.002 | % | 40 - 130% | 103 |

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 (dissolved) in Water

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

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB264577.001 | Mercury | mg/L | 0.0001 | <0.0001 |

### OC Pesticides in Water

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

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB264576.001 | | Alpha BHC | µg/L | 0.1 | <0.1 |
| | | Hexachlorobenzene (HCB) | µg/L | 0.1 | <0.1 |
| | | Beta BHC | µg/L | 0.1 | <0.1 |
| | | Lindane (gamma BHC) | µg/L | 0.1 | <0.1 |
| | | Delta BHC | µg/L | 0.1 | <0.1 |
| | | Heptachlor | µg/L | 0.1 | <0.1 |
| | | Aldrin | µg/L | 0.1 | <0.1 |
| | | Isodrin | µg/L | 0.1 | <0.1 |
| | | Heptachlor epoxide | µg/L | 0.1 | <0.1 |
| | | Gamma Chlordane | µg/L | 0.1 | <0.1 |
| | | Alpha Chlordane | µg/L | 0.1 | <0.1 |
| | | Alpha Endosulfan | µg/L | 0.1 | <0.1 |
| | | p,p'-DDE | µg/L | 0.1 | <0.1 |
| | | Dieldrin | µg/L | 0.1 | <0.1 |
| | | Endrin | µg/L | 0.1 | <0.1 |
| | | Beta Endosulfan | µg/L | 0.1 | <0.1 |
| | | p,p'-DDD | µg/L | 0.1 | <0.1 |
| | | Endrin aldehyde | µg/L | 0.1 | <0.1 |
| | | Endosulfan sulphate | µg/L | 0.1 | <0.1 |
| | | p,p'-DDT | µg/L | 0.1 | <0.1 |
| | | Endrin ketone | µg/L | 0.1 | <0.1 |
| | | Methoxychlor | µg/L | 0.1 | <0.1 |
| | | Mirex | µg/L | 0.1 | <0.1 |
| | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | % | - | 108 |

### OP Pesticides in Water

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

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB264576.001 | | Azinphos-methyl | µg/L | 0.2 | <0.2 |
| | | Bromophos Ethyl | µg/L | 0.2 | <0.2 |
| | | Chlorpyrifos (Chlorpyrifos Ethyl) | µg/L | 0.2 | <0.2 |
| | | Diazinon (Dimpylate) | µg/L | 0.5 | <0.5 |
| | | Dichlorvos | µg/L | 0.5 | <0.5 |
| | | Dimethoate | µg/L | 0.5 | <0.5 |
| | | Ethion | µg/L | 0.2 | <0.2 |
| | | Fenitrothion | µg/L | 0.2 | <0.2 |
| | | Malathion | µg/L | 0.2 | <0.2 |
| | | Methidathion | µg/L | 0.5 | <0.5 |
| | | Parathion-ethyl (Parathion) | µg/L | 0.2 | <0.2 |
| | Surrogates | 2-fluorobiphenyl (Surrogate) | % | - | 70 |
| | | d14-p-terphenyl (Surrogate) | % | - | 82 |

### PAH (Polynuclear Aromatic Hydrocarbons) in Water

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

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB264576.001 | Naphthalene | µg/L | 0.1 | <0.1 |
| | 2-methylnaphthalene | µg/L | 0.1 | <0.1 |
| | 1-methylnaphthalene | µg/L | 0.1 | <0.1 |
| | Acenaphthylene | µg/L | 0.1 | <0.1 |
| | Acenaphthene | µg/L | 0.1 | <0.1 |
| | Fluorene | µg/L | 0.1 | <0.1 |
| | Phenanthrene | µg/L | 0.1 | <0.1 |
| | Anthracene | µg/L | 0.1 | <0.1 |
| | Fluoranthene | µg/L | 0.1 | <0.1 |
| | Pyrene | µg/L | 0.1 | <0.1 |
| | Benzo(a)anthracene | µg/L | 0.1 | <0.1 |
| | Chrysene | µg/L | 0.1 | <0.1 |
| | Benzo(a)pyrene | µg/L | 0.1 | <0.1 |

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

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

### PAH (Polynuclear Aromatic Hydrocarbons) in Water (continued)

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

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB264576.001 | | Indeno(1,2,3-cd)pyrene | µg/L | 0.1 | <0.1 |
| | | Dibenzo(ah)anthracene | µg/L | 0.1 | <0.1 |
| | | Benzo(ghi)perylene | µg/L | 0.1 | <0.1 |
| | Surrogates | d5-nitrobenzene (Surrogate) | % | - | 50 |
| | | 2-fluorobiphenyl (Surrogate) | % | - | 62 |
| | | d14-p-terphenyl (Surrogate) | % | - | 72 |

### PCBs in Water

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

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB264576.001 | Arochlor 1016 | µg/L | 1 | <1 |
| | Arochlor 1221 | µg/L | 1 | <1 |
| | Arochlor 1232 | µg/L | 1 | <1 |
| | Arochlor 1242 | µg/L | 1 | <1 |
| | Arochlor 1248 | µg/L | 1 | <1 |
| | Arochlor 1254 | µg/L | 1 | <1 |
| | Arochlor 1260 | µg/L | 1 | <1 |
| | Arochlor 1262 | µg/L | 1 | <1 |
| | Arochlor 1268 | µg/L | 1 | <1 |

### Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB264564.001 | Arsenic | µg/L | 1 | <1 |
| | Cadmium | µg/L | 0.1 | <0.1 |
| | Chromium | µg/L | 1 | <1 |
| | Copper | µg/L | 1 | <1 |
| | Lead | µg/L | 1 | <1 |
| | Nickel | µg/L | 1 | <1 |
| | Zinc | µg/L | 5 | <5 |

### TRH (Total Recoverable Hydrocarbons) in Water

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

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB264576.001 | TRH C10-C14 | µg/L | 50 | <50 |
| | TRH C15-C28 | µg/L | 200 | <200 |
| | TRH C29-C36 | µg/L | 200 | <200 |
| | TRH C37-C40 | µg/L | 200 | <200 |

### VOCs in Water

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

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB264773.001 | Monocyclic Aromatic Hydrocarbons | Benzene | µg/L | 0.5 | <0.5 |
| | | Toluene | µg/L | 0.5 | <0.5 |
| | | Ethylbenzene | µg/L | 0.5 | <0.5 |
| | | m/p-xylene | µg/L | 1 | <1 |
| | | o-xylene | µg/L | 0.5 | <0.5 |
| | Polycyclic VOCs | Naphthalene (VOC)* | µg/L | 0.5 | <0.5 |
| | Surrogates | d4-1,2-dichloroethane (Surrogate) | % | - | 97 |
| | | d8-toluene (Surrogate) | % | - | 97 |
| | | Bromofluorobenzene (Surrogate) | % | - | 103 |

### Volatile Petroleum Hydrocarbons in Water

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

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB264773.001 | | TRH C6-C9 | µg/L | 40 | <40 |
| | Surrogates | d4-1,2-dichloroethane (Surrogate) | % | - | 97 |
| | | d8-toluene (Surrogate) | % | - | 97 |
| | | Bromofluorobenzene (Surrogate) | % | - | 103 |

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

## Mercury (dissolved) in Water

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

| Original | Duplicate | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|
| SE239401.002 | LB264577.014 | Mercury | µg/L | 0.0001 | <0.0001 | <0.0001 | 200 | 29 |
| SE239445.030 | LB264577.016 | Mercury | µg/L | 0.0001 | <0.0001 | <0.0001 | 200 | 40 |

## PAH (Polynuclear Aromatic Hydrocarbons) in Water

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE239398.004 | LB264576.028 | | Naphthalene | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | 2-methylnaphthalene | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | 1-methylnaphthalene | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Acenaphthylene | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Acenaphthene | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Fluorene | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Phenanthrene | µg/L | 0.1 | <0.1 | <0.1 | 190 | 0 |
| | | | Anthracene | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Fluoranthene | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Pyrene | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Benzo(a)anthracene | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Chrysene | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Benzo(b&j)fluoranthene | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Benzo(k)fluoranthene | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Benzo(a)pyrene | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Indeno(1,2,3-cd)pyrene | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Dibenzo(ah)anthracene | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Benzo(ghi)perylene | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Surrogates | d5-nitrobenzene (Surrogate) | µg/L | - | 0.2 | 0.2 | 30 | 5 |
| | | | 2-fluorobiphenyl (Surrogate) | µg/L | - | 0.3 | 0.3 | 30 | 13 |
| | | | d14-p-terphenyl (Surrogate) | µg/L | - | 0.5 | 0.4 | 30 | 22 |

## Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

| Original | Duplicate | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|
| SE239398.009 | LB264564.014 | Arsenic | µg/L | 1 | <1 | <1 | 200 | 0 |
| | | Cadmium | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Chromium | µg/L | 1 | <1 | <1 | 200 | 0 |
| | | Copper | µg/L | 1 | <1 | <1 | 200 | 0 |
| | | Lead | µg/L | 1 | <1 | <1 | 200 | 0 |
| | | Nickel | µg/L | 1 | <1 | <1 | 200 | 0 |
| | | Zinc | µg/L | 5 | <5 | <5 | 200 | 0 |
| SE239445.030 | LB264564.018 | Arsenic | µg/L | 1 | <1 | <1 | 200 | 0 |
| | | Cadmium | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Chromium | µg/L | 1 | <1 | <1 | 200 | 0 |
| | | Copper | µg/L | 1 | <1 | <1 | 200 | 0 |
| | | Lead | µg/L | 1 | <1 | <1 | 200 | 0 |
| | | Nickel | µg/L | 1 | <1 | <1 | 200 | 0 |
| | | Zinc | µg/L | 5 | <5 | <5 | 200 | 0 |

## TRH (Total Recoverable Hydrocarbons) in Water

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE239288.001 | LB264576.029 | | TRH C10-C14 | µg/L | 50 | <50 | <50 | 200 | 0 |
| | | | TRH C15-C28 | µg/L | 200 | <200 | <200 | 200 | 0 |
| | | | TRH C29-C36 | µg/L | 200 | <200 | <200 | 200 | 0 |
| | | | TRH C37-C40 | µg/L | 200 | <200 | <200 | 200 | 0 |
| | | | TRH C10-C40 | µg/L | 320 | <320 | <320 | 200 | 0 |
| | | TRH F Bands | TRH >C10-C16 | µg/L | 60 | <60 | <60 | 200 | 0 |
| | | | TRH >C10-C16 - Naphthalene (F2) | µg/L | 60 | <60 | <60 | 200 | 0 |
| | | | TRH >C16-C34 (F3) | µg/L | 500 | <500 | <500 | 200 | 0 |
| | | | TRH >C34-C40 (F4) | µg/L | 500 | <500 | <500 | 200 | 0 |
| SE239398.004 | LB264576.028 | | TRH C10-C14 | µg/L | 50 | 91 | 85 | 87 | 7 |
| | | | TRH C15-C28 | µg/L | 200 | <200 | <200 | 200 | 0 |
| | | | TRH C29-C36 | µg/L | 200 | <200 | <200 | 200 | 0 |
| | | | TRH C37-C40 | µg/L | 200 | <200 | <200 | 200 | 0 |
| | | | TRH C10-C40 | µg/L | 320 | <320 | <320 | 200 | 0 |
| | | TRH F Bands | TRH >C10-C16 | µg/L | 60 | 91 | 85 | 98 | 7 |

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

### TRH (Total Recoverable Hydrocarbons) in Water (continued)

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE239398.004 | LB264576.028 | TRH F Bands | TRH >C10-C16 - Naphthalene (F2) | µg/L | 60 | 91 | 85 | 98 | 7 |
| | | | TRH >C16-C34 (F3) | µg/L | 500 | <500 | <500 | 200 | 0 |
| | | | TRH >C34-C40 (F4) | µg/L | 500 | <500 | <500 | 200 | 0 |

### VOCs in Water

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE239401.002 | LB264773.023 | Monocyclic | Benzene | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | Aromatic | Toluene | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | Hydrocarbons | Ethylbenzene | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | m/p-xylene | µg/L | 1 | <1 | <1 | 200 | 0 |
| | | | o-xylene | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | Polycyclic | Naphthalene (VOC)* | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | µg/L | - | 8.9 | 10.5 | 30 | 17 |
| | | | d8-toluene (Surrogate) | µg/L | - | 10.3 | 10.9 | 30 | 6 |
| | | | Bromofluorobenzene (Surrogate) | µg/L | - | 10.9 | 11.3 | 30 | 3 |
| | | Totals | Total BTEX | µg/L | 3 | <3 | <3 | 200 | 0 |

### Volatile Petroleum Hydrocarbons in Water

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE239361.001 | LB264773.022 | Surrogates | d4-1,2-dichloroethane (Surrogate) | µg/L | - | 8.0 | 10.7 | 30 | 29 |
| | | | d8-toluene (Surrogate) | µg/L | - | 10.0 | 10.8 | 30 | 8 |
| | | | Bromofluorobenzene (Surrogate) | µg/L | - | 11.0 | 11.1 | 30 | 1 |
| | | VPH F Bands | Benzene (F0) | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| SE239401.002 | LB264773.023 | | TRH C6-C10 | µg/L | 50 | <50 | <50 | 200 | 0 |
| | | | TRH C6-C9 | µg/L | 40 | <40 | <40 | 200 | 0 |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | µg/L | - | 8.9 | 10.5 | 30 | 17 |
| | | | d8-toluene (Surrogate) | µg/L | - | 10.3 | 10.9 | 30 | 6 |
| | | | Bromofluorobenzene (Surrogate) | µg/L | - | 10.9 | 11.3 | 30 | 3 |
| | | VPH F Bands | Benzene (F0) | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | TRH C6-C10 minus BTEX (F1) | µg/L | 50 | <50 | <50 | 200 | 0 |

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

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

### OC Pesticides in Water

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

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB264576.002 | | Delta BHC | µg/L | 0.1 | 0.2 | 0.2 | 60 - 140 | 109 |
| | | Heptachlor | µg/L | 0.1 | 0.2 | 0.2 | 60 - 140 | 109 |
| | | Aldrin | µg/L | 0.1 | 0.2 | 0.2 | 60 - 140 | 89 |
| | | Dieldrin | µg/L | 0.1 | 0.2 | 0.2 | 60 - 140 | 115 |
| | | Endrin | µg/L | 0.1 | 0.2 | 0.2 | 60 - 140 | 117 |
| | | p,p'-DDT | µg/L | 0.1 | 0.2 | 0.2 | 60 - 140 | 122 |
| | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | µg/L | - | 0.15 | 0.15 | 40 - 130 | 101 |

### OP Pesticides in Water

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

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB264576.002 | | Chlorpyrifos (Chlorpyrifos Ethyl) | µg/L | 0.2 | 8.5 | 8 | 60 - 140 | 106 |
| | | Diazinon (Dimpylate) | µg/L | 0.5 | 8.9 | 8 | 60 - 140 | 111 |
| | | Dichlorvos | µg/L | 0.5 | 8.5 | 8 | 60 - 140 | 106 |
| | | Ethion | µg/L | 0.2 | 7.9 | 8 | 60 - 140 | 99 |
| | Surrogates | 2-fluorobiphenyl (Surrogate) | µg/L | - | 0.4 | 0.5 | 40 - 130 | 72 |
| | | d14-p-terphenyl (Surrogate) | µg/L | - | 0.4 | 0.5 | 40 - 130 | 84 |

### PAH (Polynuclear Aromatic Hydrocarbons) in Water

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

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB264576.002 | | Naphthalene | µg/L | 0.1 | 29 | 40 | 60 - 140 | 73 |
| | | Acenaphthylene | µg/L | 0.1 | 34 | 40 | 60 - 140 | 84 |
| | | Acenaphthene | µg/L | 0.1 | 32 | 40 | 60 - 140 | 80 |
| | | Phenanthrene | µg/L | 0.1 | 34 | 40 | 60 - 140 | 85 |
| | | Anthracene | µg/L | 0.1 | 33 | 40 | 60 - 140 | 83 |
| | | Fluoranthene | µg/L | 0.1 | 35 | 40 | 60 - 140 | 87 |
| | | Pyrene | µg/L | 0.1 | 34 | 40 | 60 - 140 | 86 |
| | | Benzo(a)pyrene | µg/L | 0.1 | 38 | 40 | 60 - 140 | 95 |
| | Surrogates | d5-nitrobenzene (Surrogate) | µg/L | - | 0.3 | 0.5 | 40 - 130 | 52 |
| | | 2-fluorobiphenyl (Surrogate) | µg/L | - | 0.3 | 0.5 | 40 - 130 | 64 |
| | | d14-p-terphenyl (Surrogate) | µg/L | - | 0.4 | 0.5 | 40 - 130 | 70 |

### PCBs in Water

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

| Sample Number | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|
| LB264576.002 | Arochlor 1260 | µg/L | 1 | <1 | 0.4 | 60 - 140 | 124 |

### Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

| Sample Number | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|
| LB264564.002 | Arsenic | µg/L | 1 | 20 | 20 | 80 - 120 | 99 |
| | Cadmium | µg/L | 0.1 | 21 | 20 | 80 - 120 | 103 |
| | Chromium | µg/L | 1 | 20 | 20 | 80 - 120 | 98 |
| | Copper | µg/L | 1 | 21 | 20 | 80 - 120 | 104 |
| | Lead | µg/L | 1 | 20 | 20 | 80 - 120 | 102 |
| | Nickel | µg/L | 1 | 20 | 20 | 80 - 120 | 102 |
| | Zinc | µg/L | 5 | 22 | 20 | 80 - 120 | 110 |

### TRH (Total Recoverable Hydrocarbons) in Water

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

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB264576.002 | | TRH C10-C14 | µg/L | 50 | 880 | 1200 | 60 - 140 | 73 |
| | | TRH C15-C28 | µg/L | 200 | 1200 | 1200 | 60 - 140 | 100 |
| | | TRH C29-C36 | µg/L | 200 | 1200 | 1200 | 60 - 140 | 98 |
| | TRH F Bands | TRH >C10-C16 | µg/L | 60 | 1000 | 1200 | 60 - 140 | 83 |
| | | TRH >C16-C34 (F3) | µg/L | 500 | 1300 | 1200 | 60 - 140 | 107 |
| | | TRH >C34-C40 (F4) | µg/L | 500 | 580 | 600 | 60 - 140 | 97 |

### VOCs in Water

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

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB264773.002 | Monocyclic | Benzene | µg/L | 0.5 | 50 | 45.45 | 60 - 140 | 110 |
| | Aromatic | Toluene | µg/L | 0.5 | 52 | 45.45 | 60 - 140 | 115 |
| | Hydrocarbons | Ethylbenzene | µg/L | 0.5 | 51 | 45.45 | 60 - 140 | 112 |
| | | m/p-xylene | µg/L | 1 | 98 | 90.9 | 60 - 140 | 107 |
| | | o-xylene | µg/L | 0.5 | 50 | 45.45 | 60 - 140 | 109 |
| | Surrogates | d4-1,2-dichloroethane (Surrogate) | µg/L | - | 8.4 | 10 | 60 - 140 | 84 |

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.

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

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB264773.002 | Surrogates | d8-toluene (Surrogate) | µg/L | - | 11.0 | 10 | 70 - 130 | 110 |
| | | Bromofluorobenzene (Surrogate) | µg/L | - | 11.7 | 10 | 70 - 130 | 117 |

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

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB264773.002 | | TRH C6-C10 | µg/L | 50 | 1100 | 946.63 | 60 - 140 | 113 |
| | | TRH C6-C9 | µg/L | 40 | 960 | 818.71 | 60 - 140 | 117 |
| | Surrogates | d4-1,2-dichloroethane (Surrogate) | µg/L | - | 8.4 | 10 | 60 - 140 | 84 |
| | | d8-toluene (Surrogate) | µg/L | - | 11.0 | 10 | 70 - 130 | 110 |
| | | Bromofluorobenzene (Surrogate) | µg/L | - | 11.7 | 10 | 70 - 130 | 117 |
| | VPH F Bands | TRH C6-C10 minus BTEX (F1) | µg/L | 50 | 770 | 639.67 | 60 - 140 | 121 |

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

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

## VOCs in Water

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

| QC Sample | Sample Number | | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|---|
| SE239354.001 | LB264773.021 | Monocyclic | Benzene | µg/L | 0.5 | 54 | 0 | 45.45 | 118 |
| | | Aromatic | Toluene | µg/L | 0.5 | 53 | 0.005956499 | 45.45 | 117 |
| | | Hydrocarbons | Ethylbenzene | µg/L | 0.5 | 52 | 0.003782555 | 45.45 | 115 |
| | | | m/p-xylene | µg/L | 1 | 100 | 0.007516333 | 90.9 | 113 |
| | | | o-xylene | µg/L | 0.5 | 51 | 0.004826002 | 45.45 | 113 |
| | | Polycyclic | Naphthalene (VOC)* | µg/L | 0.5 | 54 | 0.008929610 | - | - |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | µg/L | - | 10.8 | 9.925122046 | - | 108 |
| | | | d8-toluene (Surrogate) | µg/L | - | 10.9 | 9.877856135 | - | 109 |
| | | | Bromofluorobenzene (Surrogate) | µg/L | - | 10.7 | 10.29198770 | - | 107 |
| | | Totals | Total BTEX | µg/L | 3 | 310 | 0 | - | - |

## Volatile Petroleum Hydrocarbons in Water

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

| QC Sample | Sample Number | | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|---|
| SE239354.001 | LB264773.021 | | TRH C6-C10 | µg/L | 50 | 920 | 0 | 946.63 | 97 |
| | | | TRH C6-C9 | µg/L | 40 | 810 | 0 | 818.71 | 99 |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | µg/L | - | 10.8 | 9.925122046 | - | 108 |
| | | | d8-toluene (Surrogate) | µg/L | - | 10.9 | 9.877856135 | - | 109 |
| | | | Bromofluorobenzene (Surrogate) | µg/L | - | 10.7 | 10.29198770 | - | 107 |
| | | VPH F | Benzene (F0) | µg/L | 0.5 | | 0 | - | - |
| | | Bands | TRH C6-C10 minus BTEX (F1) | µg/L | 50 | 600 | 0 | 639.67 | 94 |

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The original result is the analyte concentration of the matrix spike. The Duplicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the

No matrix spike duplicates were required for this job.

Samples analysed as received.

Solid samples expressed on a dry weight basis.

QC criteria are subject to internal review according to the SGS QA/QC plan and may be provided on request or alternatively can be found here: https://www.sgs.com.au/~/media/Local/Australia/Documents/Technical Documents/MP-AU-ENV-QU-022 QA QC Plan.pdf

| | |
|---|---|
| * | NATA accreditation does not cover the performance of this service. |
| ** | Indicative data, theoretical holding time exceeded. |
| *** | Indicates that both * and ** apply. |
| - | Sample not analysed for this analyte. |
| IS | Insufficient sample for analysis. |
| LNR | Sample listed, but not received. |
| LOR | Limit of reporting. |
| QFH | QC result is above the upper tolerance. |
| QFL | QC result is below the lower tolerance. |
| ① | At least 2 of 3 surrogates are within acceptance criteria. |
| ② | RPD failed acceptance criteria due to sample heterogeneity. |
| ③ | Results less than 5 times LOR preclude acceptance criteria for RPD. |
| ④ | Recovery failed acceptance criteria due to matrix interference. |
| ⑤ | Recovery failed acceptance criteria due to the presence of significant concentration of analyte (i.e. the concentration of analyte exceeds the spike level). |
| ⑥ | LOR was raised due to sample matrix interference. |
| ⑦ | LOR was raised due to dilution of significantly high concentration of analyte in sample. |
| ⑧ | Reanalysis of sample in duplicate confirmed sample heterogeneity and inconsistency of results. |
| ⑨ | Recovery failed acceptance criteria due to sample heterogeneity. |
| ⑩ | LOR was raised due to high conductivity of the sample (required dilution). |
| † | Refer to relevant report comments for further information. |

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# CHAIN OF CUSTODY & ANALYSIS REQUEST

Page ____ of ____

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

| | | | |
|---|---|---|---|
| Company Name: | K2 Consulting Group | Project Name/No: | ST-01-1533 (515 Crookwell Road, Kingsdale NSW 2580) |
| Address: | Suite 222 (Building B) | Purchase Order No: | |
| | 20 Lexington Drive, Bella Vista NSW 2153 | Results Required By: | |
| | | Telephone: | |
| Contact Name: | Sirish Baniya | Facsimile: | |
| | | Email Results: | sirish@k2consultinggroup.com.au; kannan@k2consultinggroup.com.au |

| Client Sample ID | Date Sampled | Lab Sample ID | WATER | SOIL | PRESERVATIVE | NO OF CONTAINERS | CL17 (BTEXN/TRH/PAH/ OC/OP/PCB/8HM) |
|---|---|---|---|---|---|---|---|
| ST-01-1533-GW4 | 18/11/2022 | 1 | X | | | 4 | X |
| ST-01-1533-GW5 | 18/11/2022 | 2 | X | | | 4 | X |
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SGS EHS Sydney COC
**SE239401**

| | | | |
|---|---|---|---|
| Relinquished By: Adi | Date/Time: 21/11/2022 (1pm) | Received By: | Date/Time 21.11.22 2.50pm |
| Relinquished By: | Date/Time: | Received By: | Date/Time |
| Samples Intact: Yes/ No | Temperature: Ambient / Chilled 9.1 | Sample Cooler Sealed: Yes/ No | Laboratory Quotation No: |
| | Comments: | | |

**K2 Enviro Solutions**
**Suite 1A, Level 2, 802 Pacific Highway**
**Gordon**
**NSW 2768**

**NATA Accredited**
**Accreditation Number 1261**
**Site Number 1254**

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

**Attention:** **Kannan Kaliappan**

**Report** **941274-S**
Project name 515 CROOKWELL ROAD KINGSDALE NSW 2580
Project ID ST-01-1533
Received Date Nov 11, 2022

| **Client Sample ID** | | | **ST-01-1553-SR1** | **ST-01-1553-SR2** | **ST-01-1553-SR3** | **ST-01-1553-SR4** |
|---|---|---|---|---|---|---|
| **Sample Matrix** | | | **Soil** | **Soil** | **Soil** | **Soil** |
| **Eurofins Sample No.** | | | **M22-No0036334** | **M22-No0036335** | **M22-No0036336** | **M22-No0036337** |
| **Date Sampled** | | | **Nov 09, 2022** | **Nov 09, 2022** | **Nov 09, 2022** | **Nov 09, 2022** |
| Test/Reference | LOR | Unit | | | | |
| **Total Recoverable Hydrocarbons** | | | | | | |
| TRH C6-C9 | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH C10-C14 | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH C15-C28 | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| TRH C29-C36 | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| TRH C10-C36 (Total) | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| Naphthalene[N02] | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| TRH C6-C10 | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH C6-C10 less BTEX (F1)[N04] | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH >C10-C16 | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| TRH >C10-C16 less Naphthalene (F2)[N01] | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| TRH >C16-C34 | 100 | mg/kg | < 100 | < 100 | < 100 | < 100 |
| TRH >C34-C40 | 100 | mg/kg | < 100 | < 100 | < 100 | < 100 |
| TRH >C10-C40 (total)* | 100 | mg/kg | < 100 | < 100 | < 100 | < 100 |
| **BTEX** | | | | | | |
| Benzene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Toluene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Ethylbenzene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| m&p-Xylenes | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| o-Xylene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Xylenes - Total* | 0.3 | mg/kg | < 0.3 | < 0.3 | < 0.3 | < 0.3 |
| 4-Bromofluorobenzene (surr.) | 1 | % | 56 | 84 | 58 | 98 |
| **Polycyclic Aromatic Hydrocarbons** | | | | | | |
| Benzo(a)pyrene TEQ (lower bound) * | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(a)pyrene TEQ (medium bound) * | 0.5 | mg/kg | 0.6 | 0.6 | 0.6 | 0.6 |
| Benzo(a)pyrene TEQ (upper bound) * | 0.5 | mg/kg | 1.2 | 1.2 | 1.2 | 1.2 |
| Acenaphthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Acenaphthylene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benz(a)anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(a)pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(b&j)fluoranthene[N07] | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(g.h.i)perylene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(k)fluoranthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Chrysene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |

| Client Sample ID | | | ST-01-1553-SR1 | ST-01-1553-SR2 | ST-01-1553-SR3 | ST-01-1553-SR4 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | M22-No0036334 | M22-No0036335 | M22-No0036336 | M22-No0036337 |
| Date Sampled | | | Nov 09, 2022 | Nov 09, 2022 | Nov 09, 2022 | Nov 09, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Polycyclic Aromatic Hydrocarbons** | | | | | | |
| Dibenz(a.h)anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Fluoranthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Fluorene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Indeno(1.2.3-cd)pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Naphthalene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Phenanthrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Total PAH* | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 2-Fluorobiphenyl (surr.) | 1 | % | 62 | 66 | 64 | 78 |
| p-Terphenyl-d14 (surr.) | 1 | % | 62 | 60 | 59 | 73 |
| **Organochlorine Pesticides** | | | | | | |
| Chlordanes - Total | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| 4.4'-DDD | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| 4.4'-DDE | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| 4.4'-DDT | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| a-HCH | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Aldrin | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| b-HCH | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| d-HCH | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Dieldrin | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endosulfan I | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endosulfan II | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endosulfan sulphate | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endrin | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endrin aldehyde | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endrin ketone | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| g-HCH (Lindane) | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Heptachlor | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Heptachlor epoxide | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Hexachlorobenzene | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Methoxychlor | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Toxaphene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Aldrin and Dieldrin (Total)* | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| DDT + DDE + DDD (Total)* | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Vic EPA IWRG 621 OCP (Total)* | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Vic EPA IWRG 621 Other OCP (Total)* | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Dibutylchlorendate (surr.) | 1 | % | 66 | 89 | 85 | 50 |
| Tetrachloro-m-xylene (surr.) | 1 | % | 81 | 64 | 60 | 87 |
| **Organophosphorus Pesticides** | | | | | | |
| Azinphos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Bolstar | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Chlorfenvinphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Chlorpyrifos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Chlorpyrifos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Coumaphos | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Demeton-S | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Demeton-O | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Diazinon | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |

| Client Sample ID | | | ST-01-1553-SR1 | ST-01-1553-SR2 | ST-01-1553-SR3 | ST-01-1553-SR4 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | M22-No0036334 | M22-No0036335 | M22-No0036336 | M22-No0036337 |
| Date Sampled | | | Nov 09, 2022 | Nov 09, 2022 | Nov 09, 2022 | Nov 09, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Organophosphorus Pesticides** | | | | | | |
| Dichlorvos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Dimethoate | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Disulfoton | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| EPN | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Ethion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Ethoprop | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Ethyl parathion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Fenitrothion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Fensulfothion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Fenthion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Malathion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Merphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Methyl parathion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Mevinphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Monocrotophos | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Naled | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Omethoate | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Phorate | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Pirimiphos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Pyrazophos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Ronnel | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Terbufos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Tetrachlorvinphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Tokuthion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Trichloronate | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Triphenylphosphate (surr.) | 1 | % | 109 | 103 | 98 | 89 |
| **Heavy Metals** | | | | | | |
| Arsenic | 2 | mg/kg | 5.8 | 14 | 3.4 | 12 |
| Cadmium | 0.4 | mg/kg | < 0.4 | < 0.4 | < 0.4 | < 0.4 |
| Chromium | 5 | mg/kg | 170 | 82 | 180 | 44 |
| Copper | 5 | mg/kg | 35 | < 5 | 50 | 6.6 |
| Lead | 5 | mg/kg | 21 | 42 | 11 | 21 |
| Mercury | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Nickel | 5 | mg/kg | 67 | 6.3 | 110 | 6.9 |
| Zinc | 5 | mg/kg | 43 | 12 | 57 | 20 |
| | | | | | | |
| % Moisture | 1 | % | 23 | 20 | 22 | 16 |

## Sample History

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

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

| Description | Testing Site | Extracted | Holding Time |
|---|---|---|---|
| Eurofins Suite B10 | | | |
| Total Recoverable Hydrocarbons - 1999 NEPM Fractions | Melbourne | Nov 15, 2022 | 14 Days |
| - Method: LTM-ORG-2010 TRH C6-C40 | | | |
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions | Melbourne | Nov 15, 2022 | 14 Days |
| - Method: LTM-ORG-2010 TRH C6-C40 | | | |
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions | Melbourne | Nov 15, 2022 | 14 Days |
| - Method: LTM-ORG-2010 TRH C6-C40 | | | |
| BTEX | Melbourne | Nov 15, 2022 | 14 Days |
| - Method: LTM-ORG-2010 BTEX and Volatile TRH | | | |
| Polycyclic Aromatic Hydrocarbons | Melbourne | Nov 15, 2022 | 14 Days |
| - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water | | | |
| Organochlorine Pesticides | Melbourne | Nov 15, 2022 | 14 Days |
| - Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8270) | | | |
| Organophosphorus Pesticides | Melbourne | Nov 15, 2022 | 14 Days |
| - Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS (USEPA 8270) | | | |
| Metals M8 | Melbourne | Nov 15, 2022 | 28 Days |
| - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS | | | |
| % Moisture | Melbourne | Nov 15, 2022 | 14 Days |
| - Method: LTM-GEN-7080 Moisture | | | |

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**Company Name:** K2 Enviro Solutions
**Address:** Suite 1A, Level 2, 802 Pacific Highway
Gordon
NSW 2768

**Project Name:** 515 CROOKWELL ROAD KINGSDALE NSW 2580
**Project ID:** ST-01-1533

**Order No.:**
**Report #:** 941274
**Phone:** 0449 669 559
**Fax:**

**Received:** Nov 11, 2022 3:02 PM
**Due:** Nov 18, 2022
**Priority:** 5 Day
**Contact Name:** Kannan Kaliappan

**Eurofins Analytical Services Manager : Hannah Mawbey**

| Sample Detail | | | | | | Moisture Set | Eurofins Suite B10 |
|---|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | X | X |
| **External Laboratory** | | | | | | | |
| **No** | **Sample ID** | **Sample Date** | **Sampling Time** | **Matrix** | **LAB ID** | | |
| 1 | ST-01-1553-SR1 | Nov 09, 2022 | | Soil | M22-No0036334 | X | X |
| 2 | ST-01-1553-SR2 | Nov 09, 2022 | | Soil | M22-No0036335 | X | X |
| 3 | ST-01-1553-SR3 | Nov 09, 2022 | | Soil | M22-No0036336 | X | X |
| 4 | ST-01-1553-SR4 | Nov 09, 2022 | | Soil | M22-No0036337 | X | X |
| **Test Counts** | | | | | | 4 | 4 |

## Internal Quality Control Review and Glossary

### General

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

### Holding Times

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

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

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

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

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

### Units

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

### Terms

| | |
|---|---|
| **APHA** | American Public Health Association |
| **COC** | Chain of Custody |
| **CP** | Client Parent - QC was performed on samples pertaining to this report |
| **CRM** | Certified Reference Material (ISO17034) - reported as percent recovery. |
| **Dry** | Where a moisture has been determined on a solid sample the result is expressed on a dry basis. |
| **Duplicate** | A second piece of analysis from the same sample and reported in the same units as the result to show comparison. |
| **LOR** | Limit of Reporting. |
| **LCS** | Laboratory Control Sample - reported as percent recovery. |
| **Method Blank** | In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water. |
| **NCP** | Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within. |
| **RPD** | Relative Percent Difference between two Duplicate pieces of analysis. |
| **SPIKE** | Addition of the analyte to the sample and reported as percentage recovery. |
| **SRA** | Sample Receipt Advice |
| **Surr - Surrogate** | The addition of a like compound to the analyte target and reported as percentage recovery. |
| **TBTO** | Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits. |
| **TCLP** | Toxicity Characteristic Leaching Procedure |
| **TEQ** | Toxic Equivalency Quotient or Total Equivalence |
| **QSM** | US Department of Defense Quality Systems Manual Version 5.4 |
| **US EPA** | United States Environmental Protection Agency |
| **WA DWER** | Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA |

### QC - Acceptance Criteria

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

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

Results <10 times the LOR: No Limit

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

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

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

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

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

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### QC Data General Comments

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

**Quality Control Results**

| Test | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|---|---|---|---|---|---|---|
| **Method Blank** | | | | | | | |
| **Total Recoverable Hydrocarbons** | | | | | | | |
| TRH C6-C9 | mg/kg | < 20 | | | 20 | Pass | |
| TRH C10-C14 | mg/kg | < 20 | | | 20 | Pass | |
| TRH C15-C28 | mg/kg | < 50 | | | 50 | Pass | |
| TRH C29-C36 | mg/kg | < 50 | | | 50 | Pass | |
| Naphthalene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| TRH C6-C10 | mg/kg | < 20 | | | 20 | Pass | |
| TRH >C10-C16 | mg/kg | < 50 | | | 50 | Pass | |
| TRH >C16-C34 | mg/kg | < 100 | | | 100 | Pass | |
| TRH >C34-C40 | mg/kg | < 100 | | | 100 | Pass | |
| **Method Blank** | | | | | | | |
| **BTEX** | | | | | | | |
| Benzene | mg/kg | < 0.1 | | | 0.1 | Pass | |
| Toluene | mg/kg | < 0.1 | | | 0.1 | Pass | |
| Ethylbenzene | mg/kg | < 0.1 | | | 0.1 | Pass | |
| m&p-Xylenes | mg/kg | < 0.2 | | | 0.2 | Pass | |
| o-Xylene | mg/kg | < 0.1 | | | 0.1 | Pass | |
| Xylenes - Total* | mg/kg | < 0.3 | | | 0.3 | Pass | |
| **Method Blank** | | | | | | | |
| **Polycyclic Aromatic Hydrocarbons** | | | | | | | |
| Acenaphthene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Acenaphthylene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Anthracene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Benz(a)anthracene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Benzo(a)pyrene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Benzo(b&j)fluoranthene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Benzo(g.h.i)perylene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Benzo(k)fluoranthene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Chrysene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Dibenz(a.h)anthracene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Fluoranthene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Fluorene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Indeno(1.2.3-cd)pyrene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Naphthalene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Phenanthrene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Pyrene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| **Method Blank** | | | | | | | |
| **Organochlorine Pesticides** | | | | | | | |
| Chlordanes - Total | mg/kg | < 0.1 | | | 0.1 | Pass | |
| 4.4'-DDD | mg/kg | < 0.05 | | | 0.05 | Pass | |
| 4.4'-DDE | mg/kg | < 0.05 | | | 0.05 | Pass | |
| 4.4'-DDT | mg/kg | < 0.05 | | | 0.05 | Pass | |
| a-HCH | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Aldrin | mg/kg | < 0.05 | | | 0.05 | Pass | |
| b-HCH | mg/kg | < 0.05 | | | 0.05 | Pass | |
| d-HCH | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Dieldrin | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Endosulfan I | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Endosulfan II | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Endosulfan sulphate | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Endrin | mg/kg | < 0.05 | | | 0.05 | Pass | |

| Test | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|---|---|---|---|---|---|---|
| Endrin aldehyde | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Endrin ketone | mg/kg | < 0.05 | | | 0.05 | Pass | |
| g-HCH (Lindane) | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Heptachlor | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Heptachlor epoxide | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Hexachlorobenzene | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Methoxychlor | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Toxaphene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| **Method Blank** | | | | | | | |
| **Organophosphorus Pesticides** | | | | | | | |
| Azinphos-methyl | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Bolstar | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Chlorfenvinphos | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Chlorpyrifos | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Chlorpyrifos-methyl | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Coumaphos | mg/kg | < 2 | | | 2 | Pass | |
| Demeton-S | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Demeton-O | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Diazinon | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Dichlorvos | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Dimethoate | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Disulfoton | mg/kg | < 0.2 | | | 0.2 | Pass | |
| EPN | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Ethion | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Ethoprop | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Ethyl parathion | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Fenitrothion | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Fensulfothion | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Fenthion | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Malathion | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Merphos | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Methyl parathion | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Mevinphos | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Monocrotophos | mg/kg | < 2 | | | 2 | Pass | |
| Naled | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Omethoate | mg/kg | < 2 | | | 2 | Pass | |
| Phorate | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Pirimiphos-methyl | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Pyrazophos | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Ronnel | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Terbufos | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Tetrachlorvinphos | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Tokuthion | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Trichloronate | mg/kg | < 0.2 | | | 0.2 | Pass | |
| **Method Blank** | | | | | | | |
| **Heavy Metals** | | | | | | | |
| Arsenic | mg/kg | < 2 | | | 2 | Pass | |
| Cadmium | mg/kg | < 0.4 | | | 0.4 | Pass | |
| Chromium | mg/kg | < 5 | | | 5 | Pass | |
| Copper | mg/kg | < 5 | | | 5 | Pass | |
| Lead | mg/kg | < 5 | | | 5 | Pass | |
| Mercury | mg/kg | < 0.1 | | | 0.1 | Pass | |
| Nickel | mg/kg | < 5 | | | 5 | Pass | |
| Zinc | mg/kg | < 5 | | | 5 | Pass | |

| Test | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|---|---|---|---|---|---|---|
| **LCS - % Recovery** | | | | | | | |
| **Total Recoverable Hydrocarbons** | | | | | | | |
| TRH C6-C9 | % | 114 | | | 70-130 | Pass | |
| TRH C10-C14 | % | 109 | | | 70-130 | Pass | |
| Naphthalene | % | 94 | | | 70-130 | Pass | |
| TRH C6-C10 | % | 113 | | | 70-130 | Pass | |
| TRH >C10-C16 | % | 119 | | | 70-130 | Pass | |
| **LCS - % Recovery** | | | | | | | |
| **BTEX** | | | | | | | |
| Benzene | % | 93 | | | 70-130 | Pass | |
| Toluene | % | 95 | | | 70-130 | Pass | |
| Ethylbenzene | % | 108 | | | 70-130 | Pass | |
| m&p-Xylenes | % | 109 | | | 70-130 | Pass | |
| Xylenes - Total* | % | 109 | | | 70-130 | Pass | |
| **LCS - % Recovery** | | | | | | | |
| **Polycyclic Aromatic Hydrocarbons** | | | | | | | |
| Acenaphthene | % | 104 | | | 70-130 | Pass | |
| Acenaphthylene | % | 89 | | | 70-130 | Pass | |
| Anthracene | % | 115 | | | 70-130 | Pass | |
| Benz(a)anthracene | % | 95 | | | 70-130 | Pass | |
| Benzo(a)pyrene | % | 79 | | | 70-130 | Pass | |
| Benzo(b&j)fluoranthene | % | 125 | | | 70-130 | Pass | |
| Benzo(g.h.i)perylene | % | 82 | | | 70-130 | Pass | |
| Benzo(k)fluoranthene | % | 116 | | | 70-130 | Pass | |
| Chrysene | % | 87 | | | 70-130 | Pass | |
| Dibenz(a.h)anthracene | % | 102 | | | 70-130 | Pass | |
| Fluoranthene | % | 95 | | | 70-130 | Pass | |
| Fluorene | % | 100 | | | 70-130 | Pass | |
| Indeno(1.2.3-cd)pyrene | % | 94 | | | 70-130 | Pass | |
| Naphthalene | % | 82 | | | 70-130 | Pass | |
| Phenanthrene | % | 129 | | | 70-130 | Pass | |
| Pyrene | % | 88 | | | 70-130 | Pass | |
| **LCS - % Recovery** | | | | | | | |
| **Organochlorine Pesticides** | | | | | | | |
| Chlordanes - Total | % | 107 | | | 70-130 | Pass | |
| 4.4'-DDD | % | 123 | | | 70-130 | Pass | |
| 4.4'-DDE | % | 111 | | | 70-130 | Pass | |
| 4.4'-DDT | % | 76 | | | 70-130 | Pass | |
| a-HCH | % | 106 | | | 70-130 | Pass | |
| Aldrin | % | 112 | | | 70-130 | Pass | |
| b-HCH | % | 115 | | | 70-130 | Pass | |
| d-HCH | % | 110 | | | 70-130 | Pass | |
| Dieldrin | % | 118 | | | 70-130 | Pass | |
| Endosulfan I | % | 117 | | | 70-130 | Pass | |
| Endosulfan II | % | 116 | | | 70-130 | Pass | |
| Endosulfan sulphate | % | 102 | | | 70-130 | Pass | |
| Endrin | % | 119 | | | 70-130 | Pass | |
| Endrin aldehyde | % | 106 | | | 70-130 | Pass | |
| Endrin ketone | % | 114 | | | 70-130 | Pass | |
| g-HCH (Lindane) | % | 96 | | | 70-130 | Pass | |
| Heptachlor | % | 107 | | | 70-130 | Pass | |
| Heptachlor epoxide | % | 103 | | | 70-130 | Pass | |
| Hexachlorobenzene | % | 107 | | | 70-130 | Pass | |
| Methoxychlor | % | 85 | | | 70-130 | Pass | |

| Test | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|---|---|---|---|---|---|---|
| **LCS - % Recovery** | | | | | | | |
| **Organophosphorus Pesticides** | | | | | | | |
| Diazinon | % | 103 | | | 70-130 | Pass | |
| Dimethoate | % | 101 | | | 70-130 | Pass | |
| Ethion | % | 90 | | | 70-130 | Pass | |
| Fenitrothion | % | 83 | | | 70-130 | Pass | |
| Methyl parathion | % | 89 | | | 70-130 | Pass | |
| Mevinphos | % | 127 | | | 70-130 | Pass | |
| **LCS - % Recovery** | | | | | | | |
| **Heavy Metals** | | | | | | | |
| Arsenic | % | 106 | | | 80-120 | Pass | |
| Cadmium | % | 109 | | | 80-120 | Pass | |
| Chromium | % | 110 | | | 80-120 | Pass | |
| Copper | % | 109 | | | 80-120 | Pass | |
| Lead | % | 110 | | | 80-120 | Pass | |
| Mercury | % | 105 | | | 80-120 | Pass | |
| Nickel | % | 106 | | | 80-120 | Pass | |
| Zinc | % | 106 | | | 80-120 | Pass | |

| Test | Lab Sample ID | QA Source | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|---|---|---|---|---|---|---|---|---|
| **Spike - % Recovery** | | | | | | | | | |
| **Total Recoverable Hydrocarbons** | | | | Result 1 | | | | | |
| TRH C6-C9 | L22-No0018671 | NCP | % | 124 | | | 70-130 | Pass | |
| TRH C10-C14 | M22-No0032894 | NCP | % | 83 | | | 70-130 | Pass | |
| Naphthalene | L22-No0018671 | NCP | % | 98 | | | 70-130 | Pass | |
| TRH C6-C10 | L22-No0018671 | NCP | % | 124 | | | 70-130 | Pass | |
| TRH >C10-C16 | M22-No0032894 | NCP | % | 81 | | | 70-130 | Pass | |
| **Spike - % Recovery** | | | | | | | | | |
| **BTEX** | | | | Result 1 | | | | | |
| Toluene | L22-No0018671 | NCP | % | 77 | | | 70-130 | Pass | |
| Ethylbenzene | L22-No0018671 | NCP | % | 81 | | | 70-130 | Pass | |
| m&p-Xylenes | L22-No0018671 | NCP | % | 82 | | | 70-130 | Pass | |
| o-Xylene | L22-No0018671 | NCP | % | 82 | | | 70-130 | Pass | |
| Xylenes - Total* | L22-No0018671 | NCP | % | 82 | | | 70-130 | Pass | |
| **Spike - % Recovery** | | | | | | | | | |
| **Organochlorine Pesticides** | | | | Result 1 | | | | | |
| Chlordanes - Total | M22-No0034383 | NCP | % | 100 | | | 70-130 | Pass | |
| 4.4'-DDD | M22-No0034383 | NCP | % | 120 | | | 70-130 | Pass | |
| 4.4'-DDE | M22-No0034383 | NCP | % | 81 | | | 70-130 | Pass | |
| 4.4'-DDT | M22-No0034383 | NCP | % | 91 | | | 70-130 | Pass | |
| a-HCH | M22-No0034383 | NCP | % | 91 | | | 70-130 | Pass | |
| Aldrin | M22-No0034383 | NCP | % | 76 | | | 70-130 | Pass | |
| b-HCH | M22-No0034383 | NCP | % | 72 | | | 70-130 | Pass | |
| d-HCH | M22-No0034383 | NCP | % | 77 | | | 70-130 | Pass | |
| Dieldrin | M22-No0034383 | NCP | % | 72 | | | 70-130 | Pass | |
| Endosulfan I | M22-No0034383 | NCP | % | 84 | | | 70-130 | Pass | |
| Endosulfan II | M22-No0034383 | NCP | % | 81 | | | 70-130 | Pass | |
| Endosulfan sulphate | M22-No0034383 | NCP | % | 83 | | | 70-130 | Pass | |
| Endrin | M22-No0034383 | NCP | % | 82 | | | 70-130 | Pass | |
| Endrin aldehyde | M22-No0034383 | NCP | % | 82 | | | 70-130 | Pass | |
| Endrin ketone | M22-No0034383 | NCP | % | 79 | | | 70-130 | Pass | |
| g-HCH (Lindane) | M22-No0034383 | NCP | % | 81 | | | 70-130 | Pass | |
| Heptachlor | M22-No0034383 | NCP | % | 83 | | | 70-130 | Pass | |
| Heptachlor epoxide | M22-No0034383 | NCP | % | 78 | | | 70-130 | Pass | |
| Hexachlorobenzene | M22-No0034383 | NCP | % | 78 | | | 70-130 | Pass | |

| Test | Lab Sample ID | QA Source | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|---|---|---|---|---|---|---|---|---|
| Methoxychlor | M22-No0034383 | NCP | % | 72 | | | 70-130 | Pass | |
| **Spike - % Recovery** | | | | | | | | | |
| **Organophosphorus Pesticides** | | | | Result 1 | | | | | |
| Diazinon | M22-No0031839 | NCP | % | 119 | | | 70-130 | Pass | |
| Dimethoate | M22-No0031839 | NCP | % | 75 | | | 70-130 | Pass | |
| Ethion | M22-No0031839 | NCP | % | 120 | | | 70-130 | Pass | |
| Fenitrothion | M22-No0031839 | NCP | % | 120 | | | 70-130 | Pass | |
| Methyl parathion | M22-No0031839 | NCP | % | 108 | | | 70-130 | Pass | |
| Mevinphos | M22-No0031839 | NCP | % | 104 | | | 70-130 | Pass | |
| **Spike - % Recovery** | | | | | | | | | |
| **Heavy Metals** | | | | Result 1 | | | | | |
| Arsenic | M22-No0038293 | NCP | % | 94 | | | 75-125 | Pass | |
| Cadmium | M22-No0036416 | NCP | % | 101 | | | 75-125 | Pass | |
| Chromium | M22-No0036416 | NCP | % | 125 | | | 75-125 | Pass | |
| Copper | M22-No0036416 | NCP | % | 117 | | | 75-125 | Pass | |
| Lead | M22-No0036416 | NCP | % | 116 | | | 75-125 | Pass | |
| Mercury | M22-No0036416 | NCP | % | 110 | | | 75-125 | Pass | |
| Nickel | M22-No0036416 | NCP | % | 113 | | | 75-125 | Pass | |
| Zinc | M22-No0036416 | NCP | % | 121 | | | 75-125 | Pass | |
| **Spike - % Recovery** | | | | | | | | | |
| **BTEX** | | | | Result 1 | | | | | |
| Benzene | L22-No0027610 | NCP | % | 94 | | | 70-130 | Pass | |
| **Spike - % Recovery** | | | | | | | | | |
| **Polycyclic Aromatic Hydrocarbons** | | | | Result 1 | | | | | |
| Acenaphthene | M22-No0026137 | NCP | % | 88 | | | 70-130 | Pass | |
| Acenaphthylene | M22-No0026137 | NCP | % | 84 | | | 70-130 | Pass | |
| Anthracene | M22-No0026137 | NCP | % | 85 | | | 70-130 | Pass | |
| Benz(a)anthracene | M22-No0026137 | NCP | % | 99 | | | 70-130 | Pass | |
| Benzo(a)pyrene | M22-No0026137 | NCP | % | 114 | | | 70-130 | Pass | |
| Benzo(b&j)fluoranthene | M22-No0026137 | NCP | % | 92 | | | 70-130 | Pass | |
| Benzo(g.h.i)perylene | M22-No0026137 | NCP | % | 94 | | | 70-130 | Pass | |
| Benzo(k)fluoranthene | M22-No0026137 | NCP | % | 124 | | | 70-130 | Pass | |
| Chrysene | M22-No0026137 | NCP | % | 119 | | | 70-130 | Pass | |
| Dibenz(a.h)anthracene | M22-No0026137 | NCP | % | 92 | | | 70-130 | Pass | |
| Fluoranthene | M22-No0026137 | NCP | % | 83 | | | 70-130 | Pass | |
| Fluorene | M22-No0026137 | NCP | % | 86 | | | 70-130 | Pass | |
| Indeno(1.2.3-cd)pyrene | M22-No0026137 | NCP | % | 100 | | | 70-130 | Pass | |
| Naphthalene | M22-No0026137 | NCP | % | 87 | | | 70-130 | Pass | |
| Phenanthrene | M22-No0026137 | NCP | % | 71 | | | 70-130 | Pass | |
| Pyrene | M22-No0026137 | NCP | % | 89 | | | 70-130 | Pass | |

| Test | Lab Sample ID | QA Source | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|---|---|---|---|---|---|---|---|---|
| **Duplicate** | | | | | | | | | |
| **Heavy Metals** | | | | Result 1 | Result 2 | RPD | | | |
| Arsenic | M22-No0036416 | NCP | mg/kg | 8.1 | 8.0 | 1.1 | 30% | Pass | |
| Cadmium | M22-No0036416 | NCP | mg/kg | < 0.4 | < 0.4 | <1 | 30% | Pass | |
| Chromium | M22-No0036416 | NCP | mg/kg | 25 | 25 | 1.3 | 30% | Pass | |
| Copper | M22-No0036416 | NCP | mg/kg | 19 | 19 | <1 | 30% | Pass | |
| Lead | M22-No0036416 | NCP | mg/kg | 10 | 10 | <1 | 30% | Pass | |
| Mercury | M22-No0036416 | NCP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Nickel | M22-No0036416 | NCP | mg/kg | 39 | 39 | <1 | 30% | Pass | |
| Zinc | M22-No0036416 | NCP | mg/kg | 41 | 40 | 1.4 | 30% | Pass | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Duplicate** | | | | | | | | | |
| **Total Recoverable Hydrocarbons** | | | | Result 1 | Result 2 | RPD | | | |
| TRH C6-C9 | M22-No0036336 | CP | mg/kg | < 20 | < 20 | <1 | 30% | Pass | |
| TRH C10-C14 | M22-No0036336 | CP | mg/kg | < 20 | < 20 | <1 | 30% | Pass | |
| TRH C15-C28 | M22-No0036336 | CP | mg/kg | < 50 | < 50 | <1 | 30% | Pass | |
| TRH C29-C36 | M22-No0036336 | CP | mg/kg | < 50 | < 50 | <1 | 30% | Pass | |
| Naphthalene | M22-No0036336 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| TRH C6-C10 | M22-No0036336 | CP | mg/kg | < 20 | < 20 | <1 | 30% | Pass | |
| TRH >C10-C16 | M22-No0036336 | CP | mg/kg | < 50 | < 50 | <1 | 30% | Pass | |
| TRH >C16-C34 | M22-No0036336 | CP | mg/kg | < 100 | < 100 | <1 | 30% | Pass | |
| TRH >C34-C40 | M22-No0036336 | CP | mg/kg | < 100 | < 100 | <1 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| **BTEX** | | | | Result 1 | Result 2 | RPD | | | |
| Benzene | M22-No0036336 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Toluene | M22-No0036336 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Ethylbenzene | M22-No0036336 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| m&p-Xylenes | M22-No0036336 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| o-Xylene | M22-No0036336 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Xylenes - Total* | M22-No0036336 | CP | mg/kg | < 0.3 | < 0.3 | <1 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| **Polycyclic Aromatic Hydrocarbons** | | | | Result 1 | Result 2 | RPD | | | |
| Acenaphthene | M22-No0036336 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Acenaphthylene | M22-No0036336 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Anthracene | M22-No0036336 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Benz(a)anthracene | M22-No0036336 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Benzo(a)pyrene | M22-No0036336 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Benzo(b&j)fluoranthene | M22-No0036336 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Benzo(g.h.i)perylene | M22-No0036336 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Benzo(k)fluoranthene | M22-No0036336 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Chrysene | M22-No0036336 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Dibenz(a.h)anthracene | M22-No0036336 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Fluoranthene | M22-No0036336 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Fluorene | M22-No0036336 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Indeno(1.2.3-cd)pyrene | M22-No0036336 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Naphthalene | M22-No0036336 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Phenanthrene | M22-No0036336 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Pyrene | M22-No0036336 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| **Organochlorine Pesticides** | | | | Result 1 | Result 2 | RPD | | | |
| Chlordanes - Total | M22-No0036336 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| 4.4'-DDD | M22-No0036336 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| 4.4'-DDE | M22-No0036336 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| 4.4'-DDT | M22-No0036336 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| a-HCH | M22-No0036336 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Aldrin | M22-No0036336 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| b-HCH | M22-No0036336 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| d-HCH | M22-No0036336 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Dieldrin | M22-No0036336 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endosulfan I | M22-No0036336 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endosulfan II | M22-No0036336 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endosulfan sulphate | M22-No0036336 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endrin | M22-No0036336 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endrin aldehyde | M22-No0036336 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endrin ketone | M22-No0036336 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| g-HCH (Lindane) | M22-No0036336 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Heptachlor | M22-No0036336 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Duplicate** | | | | | | | | | |
| **Organochlorine Pesticides** | | | | Result 1 | Result 2 | RPD | | | |
| Heptachlor epoxide | M22-No0036336 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Hexachlorobenzene | M22-No0036336 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Methoxychlor | M22-No0036336 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Toxaphene | M22-No0036336 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| **Organophosphorus Pesticides** | | | | Result 1 | Result 2 | RPD | | | |
| Azinphos-methyl | M22-No0036336 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Bolstar | M22-No0036336 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Chlorfenvinphos | M22-No0036336 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Chlorpyrifos | M22-No0036336 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Chlorpyrifos-methyl | M22-No0036336 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Coumaphos | M22-No0036336 | CP | mg/kg | < 2 | < 2 | <1 | 30% | Pass | |
| Demeton-S | M22-No0036336 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Demeton-O | M22-No0036336 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Diazinon | M22-No0036336 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Dichlorvos | M22-No0036336 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Dimethoate | M22-No0036336 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Disulfoton | M22-No0036336 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| EPN | M22-No0036336 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Ethion | M22-No0036336 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Ethoprop | M22-No0036336 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Ethyl parathion | M22-No0036336 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Fenitrothion | M22-No0036336 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Fensulfothion | M22-No0036336 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Fenthion | M22-No0036336 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Malathion | M22-No0036336 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Merphos | M22-No0036336 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Methyl parathion | M22-No0036336 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Mevinphos | M22-No0036336 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Monocrotophos | M22-No0036336 | CP | mg/kg | < 2 | < 2 | <1 | 30% | Pass | |
| Naled | M22-No0036336 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Omethoate | M22-No0036336 | CP | mg/kg | < 2 | < 2 | <1 | 30% | Pass | |
| Phorate | M22-No0036336 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Pirimiphos-methyl | M22-No0036336 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Pyrazophos | M22-No0036336 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Ronnel | M22-No0036336 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Terbufos | M22-No0036336 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Tetrachlorvinphos | M22-No0036336 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Tokuthion | M22-No0036336 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Trichloronate | M22-No0036336 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| | | | | Result 1 | Result 2 | RPD | | | |
| % Moisture | M22-No0036337 | CP | % | 16 | 17 | 1.5 | 30% | Pass | |

## Comments

### Sample Integrity

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

### Qualifier Codes/Comments

| Code | Description |
|---|---|
| N01 | F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis). |
| N02 | Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid. |
| N04 | F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes. |
| N07 | Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs |

### Authorised by:

| | |
|---|---|
| Andrew Black | Analytical Services Manager |
| Mary Makarios | Senior Analyst-Metal |
| Linda Chouman | Senior Analyst-Sample Properties |
| Edward Lee | Senior Analyst-Organic |
| Harry Bacalis | Senior Analyst-Volatile |

**Glenn Jackson**
**General Manager**

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

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

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eurofins

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Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

**Company Name:** K2 Enviro Solutions
**Address:** Suite 1A, Level 2, 802 Pacific Highway
Gordon
NSW 2768

**Project Name:** 515 CROOKWELL ROAD KINGSDALE NSW 2580
**Project ID:** ST-01-1533

**Order No.:**
**Report #:** 941274
**Phone:** 0449 669 559
**Fax:**

**Received:** Nov 11, 2022 3:02 PM
**Due:** Nov 18, 2022
**Priority:** 5 Day
**Contact Name:** Kannan Kaliappan

**Eurofins Analytical Services Manager : Hannah Mawbey**

| Sample Detail | | | | | | Moisture Set | Eurofins Suite B10 |
|---|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | X | X |
| **External Laboratory** | | | | | | | |
| **No** | **Sample ID** | **Sample Date** | **Sampling Time** | **Matrix** | **LAB ID** | | |
| 1 | ST-01-1553-SR1 | Nov 09, 2022 | | Soil | M22-No0036334 | X | X |
| 2 | ST-01-1553-SR2 | Nov 09, 2022 | | Soil | M22-No0036335 | X | X |
| 3 | ST-01-1553-SR3 | Nov 09, 2022 | | Soil | M22-No0036336 | X | X |
| 4 | ST-01-1553-SR4 | Nov 09, 2022 | | Soil | M22-No0036337 | X | X |
| **Test Counts** | | | | | | 4 | 4 |

**Appendix VIII**

**Calibration Certificates**

# Calibration & Service Report
# Water Quality Meter

| | | | | | |
|---|---|---|---|---|---|
| **Company:** | Active Environmental Solutions Hire | **Manufacturer:** | YSI | **Serial #:** | 18K102295 |
| **Address:** | Unit 16, 191 Parramatta Road<br>AUBURN NSW 2144 | **Instrument/Model:** | WQM Professional Plus<br>w/ Quatro Cable | **Cable Length:** | 1m |
| **Phone:** | 02 9716 5966 \| **Fax:** 02 9716 5988 | **Client Company:** | | **Client Email:** | |
| **Email:** | hire@aesoultions.com.au | **Client Name:** | | **Client Phone:** | |

| Item | Test | Pass | Comments |
|---|---|---|---|
| **Battery** | 2 x Alkaline C-cells | ✓ | Voltage reading above 2.9V |
| | Battery Saver | ✓ | Automatically turns off after 60 minutes if not used |
| **Connections** | Condition | ✓ | Good, clean |
| **Cable** | Condition | ✓ | Clean, no tears |
| **Display** | Operation | ✓ | |
| **Firmware** | Version | ✓ | 4.0.0 |
| **Keypad** | Operational | ✓ | |
| **Display** | Screen | ✓ | |
| **Unit** | Condition, seals and O-rings | ✓ | |
| **Monitor housing** | Condition | ✓ | |
| **pH** | | | |
| Condition | | ✓ | Good, clean |
| pH millivolts for pH7 calibration range 0 mV ± 50 mV | | ✓ | |
| pH 4 mV range + 165 to + 180 from 7 buffer mV value | | ✓ | |
| pH slope | | ✓ | 55 to 60 mV/pH; ideal 59mV |
| Response time < 90 seconds | | ✓ | |
| Calibrated and conforms to manufacturer's specifications | | ✓ | |
| **ORP** | | | |
| Condition | | ✓ | Good, clean |
| Response time < 90 seconds | | ✓ | |
| within ± 80mv of reference Zobell Reading | | ✓ | |
| Calibrated and conforms to manufacturer's specifications | | ✓ | Variance range ± 20mV |
| **Conductivity** | | | |
| Condition | | ✓ | Good, clean |
| Temperature | | ✓ | °C |
| Conductivity cell constant 5.0 ± 1.0 in GLP file | | ✓ | |
| Clean sensor reads less than 3 uS/cm in dry air | | ✓ | |
| Calibrated and conforms to manufacturer's specifications | | ✓ | µs/cm |
| **Dissolved Oxygen** | | | |
| Condition | | ✓ | Good, clean |
| DO sensor in use | | ✓ | Galvanic |
| 1.25 mil PE membrane (yellow membrane): | | ✓ | |
| DO Sensor Value | | ✓ | (min 4.31 uA - max 8.00 uA) Avg 6.15 uA |
| Calibrated and conforms to manufacturer's specifications | | ✓ | ppm |

| | | | | Instrument Readings | | |
|---|---|---|---|---|---|---|
| **Parameter** | **Standards** | **Reference** | **Calibration Point** | **Before** | **After** | **Units** |
| Temperature | Center 370 Thermometer | Room Temp. | 15 | N/A | 14.8 | °C |
| pH | pH 4.00 | 378644 | 4.00 | 4.26 | 4.00 | pH |
| pH | pH 7.00 | 378645 | 7.02 | 7.18 | 7.02 | pH |
| Conductivity | 2760 µs/cm at 25°C | 378284 | 2549 | 2717 | 2549 | µs/cm |
| ORP (Ref. check only) | Zobell solution | 367761 | 231.1 | 225.7 | 231.1 | mV |
| Zero Dissolved Oxygen | NaSO3 in distilled water | - | 0.0 | 0.3 | 0.0 | % |
| 100% Dissolved Oxygen | 100% Air Saturation | Fresh Air | 100.0 | 124 | 100.3 | % |

**Calibrated By:** Satheesh Mani

**Calibration Date:** 14 June 2022 **Calibration Due:** 14 December 2022

# Calibration & Service Report
# Water Quality Meter

| | | | | | |
|---|---|---|---|---|---|
| **Company:** | Active Environmental Solutions Hire | **Manufacturer:** | YSI | **Serial #:** | 18K102295 |
| **Address:** | Unit 16, 191 Parramatta Road AUBURN NSW 2144 | **Instrument/Model:** | WQM Professional Plus w/ Quatro Cable | **Cable Length:** | 19J100002, 1M |
| **Phone:** | 02 9716 5966 \| **Fax:** 02 9716 5988 | **Client Company:** | | **Client Email:** | |
| **Email:** | hire@aesoultions.com.au | **Client Name:** | | **Client Phone:** | |

| Item | Test | Pass | Comments |
|---|---|---|---|
| **Battery** | 2 x Alkaline C-cells | ✓ | Voltage reading above 2.9V |
| | Battery Saver | ✓ | Automatically turns off after 60 minutes if not used |
| **Connections** | Condition | ✓ | Good, clean |
| **Cable** | Condition | ✓ | Clean, no tears |
| **Display** | Operation | ✓ | |
| **Firmware** | Version | ✓ | 4.0.0 |
| **Keypad** | Operational | ✓ | |
| **Display** | Screen | ✓ | |
| **Unit** | Condition, seals and O-rings | ✓ | |
| **Monitor housing** | Condition | ✓ | |
| **pH** | | | |
| Condition | | ✓ | Good, clean |
| pH millivolts for pH7 calibration range 0 mV ± 50 mV | | ✓ | |
| pH 4 mV range + 165 to + 180 from 7 buffer mV value | | ✓ | |
| pH slope | | ✓ | 55 to 60 mV/pH; ideal 59mV |
| Response time < 90 seconds | | ✓ | |
| Calibrated and conforms to manufacturer's specifications | | ✓ | |
| **ORP** | | | |
| Condition (changed on 15/12/22) | | ✓ | Good, clean |
| Response time < 90 seconds | | ✓ | |
| within ± 80mv of reference Zobell Reading | | ✓ | |
| Calibrated and conforms to manufacturer's specifications | | ✓ | Variance range ± 20mV |
| **Conductivity** | | | |
| Condition | | ✓ | Good, clean |
| Temperature | | ✓ | °C |
| Conductivity cell constant 5.0 ± 1.0 in GLP file | | ✓ | |
| Clean sensor reads less than 3 uS/cm in dry air | | ✓ | |
| Calibrated and conforms to manufacturer's specifications | | ✓ | µs/cm |
| **Dissolved Oxygen** | | | |
| Condition | | ✓ | Good, clean |
| DO sensor in use | | ✓ | Galvanic |
| 1.25 mil PE membrane (yellow membrane): | | ✓ | |
| DO Sensor Value | | ✓ | (min 4.31 uA - max 8.00 uA) Avg 6.15 uA |
| Calibrated and conforms to manufacturer's specifications | | ✓ | ppm |

| | | | | Instrument Readings | | |
|---|---|---|---|---|---|---|
| **Parameter** | **Standards** | **Reference** | **Calibration Point** | **Before** | **After** | **Units** |
| Temperature | Center 370 Thermometer | Room Temp. | 22 | N/A | 22.1 | °C |
| pH | pH 4.00 | 378644 | 4.00 | 4.15 | 4.00 | pH |
| pH | pH 7.00 | 378645 | 7.00 | 7.08 | 7.00 | pH |
| Conductivity | 2760 µs/cm at 25°C | 378284 | 2760 | 2799 | 2760 | µs/cm |
| ORP (Ref. check only) | Zobell solution | 367761 | 235.6 | 253.1 | 235.6 | mV |
| Zero Dissolved Oxygen | NaSO3 in distilled water | - | 0.0 | 0.2 | 0.0 | % |
| 100% Dissolved Oxygen | 100% Air Saturation | Fresh Air | 100.0 | 95.3 | 99.3 | % |

**Calibrated By:** Satheesh Mani

**Calibration Date:** 15 Dec 2022 **Calibration Due:** 15 June 2023

**Appendix IX**

**Groundwater Field Parameters**

| Sampled Date – 18/11/2022 | | | | | | | | | | Sampled By | Sirish Baniya |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Well ID | GW4 | | | | | | | | | Sample IDs | ST-01-1533-GW4 |
| Time (hrs) | Parameters | | | | | | | | | Flow/ Purge Rate (L/min) | Additional Observations |
| | Volume removed (L) | Temperature (°C) | pH | Specific Conductance (µS/cm) | Total Dissolved Solids (TDS) | Dissolved Oxygen (DO) (%) | ORP (mV) | Turbidity (NTU) | Standing Water Level (m) | | |
| 14:09 | 1 | 16.8 | 6.93 | 488.1 | NA | 81.2 | 150.4 | NA | 1.9 | 0.5 | |
| 14:11 | 2 | 17.2 | 6.83 | 489.6 | NA | 88.9 | 151.5 | NA | 1.95 | 0.5 | |
| 14:13 | 3 | 17.7 | 6.91 | 491.1 | NA | 89.2 | 146.7 | NA | 1.99 | 0.5 | |
| 14:15 | 4 | 18.1 | 7.06 | 496.2 | NA | 88.6 | 140.9 | NA | 2.02 | 0.5 | |
| 14:17 | 5 | 18.4 | 7.19 | 502 | NA | 78.6 | 136.1 | NA | 2.05 | 0.5 | |
| 14:19 | 6 | 18.9 | 7.28 | 510 | NA | 84.3 | 132.1 | NA | 2.09 | 0.5 | |
| 14:21 | 7 | 19.3 | 7.40 | 516 | NA | 64 | 129 | NA | 2.11 | 0.5 | |
| 14:23 | 8 | 19.3 | 7.38 | 518 | NA | 62.1 | 133.6 | NA | 2.14 | 0.5 | |
| 14:25 | 9 | 20.4 | 7.48 | 537 | NA | 82.8 | 128.1 | NA | 2.23 | 0.5 | |
| 14:27 | 10 | 17.8 | 7.04 | 516 | NA | 83 | 134.7 | NA | 2.35 | 0.5 | |
| 14:29 | 11 | 18.8 | 7.12 | 526 | NA | 87.6 | 133.4 | NA | 2.25 | 0.5 | |
| 14:31 | 12 | 17.5 | 7.12 | 504 | NA | 89.9 | 128.1 | NA | 2.30 | 0.5 | |
| 14:33 | 13 | 18.6 | 7.11 | 514 | NA | 91.6 | 131.3 | NA | 2.36 | 0.5 | |
| 14:35 | 14 | 16.0 | 7.12 | 458.4 | NA | 91.5 | 133.3 | NA | 2.6 | 0.5 | |

| Sampled Date – 18/11/2022 | | | | | | | | | | Sampled By | Sirish Baniya |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Well ID | GW5 | | | | | | | | | Sample IDs | ST-01-1533-GW5 |
| Time | Parameters | | | | | | | | | Flow/ Purge Rate (L/min) | Additional Observations |
| | Volume removed (L) | Temperature (°C) | pH | Specific Conductance (µS/cm) | Total Dissolved Solids (TDS) | Dissolved Oxygen (DO) (%) | ORP (mV) | Turbidity (NTU) | Standing Water Level (m) | | |
| 15:09 | 1 | 16.9 | 7.04 | 3818 | NA | 116.1 | 158.3 | NA | 1.43 | 0.5 | |
| 15:11 | 2 | 17.1 | 7.29 | 3861 | NA | 74 | 152.7 | NA | 1.63 | 0.5 | |
| 15:13 | 3 | 17.9 | 7.28 | 3892 | NA | 80.8 | 160.0 | NA | 1.65 | 0.5 | |
| 15:15 | 4 | 17.9 | 7.29 | 3917 | NA | 82.1 | 157.6 | NA | 1.65 | 0.5 | |
| 15:17 | 5 | 18.2 | 7.32 | 3970 | NA | 79.1 | 155.2 | NA | 1.68 | 0.5 | |
| 15:19 | 6 | 18.3 | 7.34 | 3989 | NA | 76.7 | 153.0 | NA | 1.68 | 0.5 | |
| 15:21 | 7 | 18.01 | 7.36 | 3213 | NA | 82.0 | 150.6 | NA | 1.72 | 0.5 | |
| 15:23 | 8 | 17.6 | 7.26 | 2545 | NA | 81.0 | 149.8 | NA | 1.76 | 0.5 | |
| 15:25 | 9 | 18.0 | 7.32 | 2253 | NA | 83.1 | 148.8 | NA | 1.78 | 0.5 | |
| 15:27 | 10 | 16.2 | 7.23 | 2861 | NA | 86.9 | 144.1 | NA | 1.78 | 0.5 | |
| 15:29 | 11 | 16.3 | 7.13 | 3110 | NA | 81.9 | 143.1 | NA | 1.78 | 0.5 | |
| 15:31 | 12 | 16.4 | 7.12 | 3680 | NA | 78.1 | 140.3 | NA | 1.78 | 0.5 | |
| 15:33 | 13 | 16.3 | 7.12 | 3729 | NA | 76.0 | 139.2 | NA | 1.79 | 0.5 | |
| 15:35 | 14 | 16.3 | 7.11 | 3991 | NA | 74.0 | 138.3 | NA | 1.78 | 0.5 | |

| Sampled Date – 25/11/2022 | | | | | | | | | | Sampled By | Sirish Baniya |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Well ID | GW4 | | | | | | | | | Sample IDs | ST-01-1533-GW4(2) |
| Time | Parameters | | | | | | | | | Flow/ Purge Rate (L/min) | Additional Observations |
| | Volume removed (L) | Temperature (°C) | pH | Specific Conductance (µS/cm) | Total Dissolved Solids (TDS) | Dissolved Oxygen (DO) (%) | ORP (mV) | Turbidity (NTU) | Standing Water Level (m) | | |
| 10:10 | 1 | 16.9 | 7.17 | 591.7 | NA | 39.79 | 67.1 | NA | 2.11 | 0.5 | |
| 10:12 | 2 | 16.7 | 6.96 | 603 | NA | 45.0 | 64 | NA | 2.14 | 0.5 | |
| 10:14 | 3 | 17.2 | 7.04 | 607 | NA | 45.2 | 63.6 | NA | 2.21 | 0.5 | |
| 10:16 | 4 | 16.6 | 6.95 | 617 | NA | 48.7 | 64.6 | NA | 2.43 | 0.5 | |
| 10:18 | 5 | 17.0 | 7.25 | 579.7 | NA | 38.9 | 63.1 | NA | 2.7 | 0.5 | |
| 10:20 | 6 | 16.2 | 7.40 | 581.1 | NA | 25.6 | 64.6 | NA | 3.2 | 0.5 | Slightly murky water |
| 10:22 | 7 | 16.4 | 7.35 | 574.6 | NA | 28.8 | 64.6 | NA | 3.69 | 0.5 | |
| 10:24 | 8 | 16.2 | 7.46 | 575.7 | NA | 28.7 | 66.4 | NA | 4.08 | 0.5 | |
| 10:26 | 9 | 17.2 | 7.55 | 573.6 | NA | 42.4 | 64.9 | NA | 4.35 | 0.5 | |
| 10:36 | 10 | 17.5 | 7.62 | 577.9 | NA | 47.8 | 45.8 | NA | 2.09 | 0.5 | |
| 10:38 | 11 | 17.2 | 7.42 | 577 | NA | 45.2 | 42.1 | NA | 2.2 | 0.5 | |
| 10:40 | 12 | 17.3 | 7.41 | 577.1 | NA | 43.8 | 42.8 | NA | 2.32 | 0.5 | |
| 10:42 | 13 | 17.2 | 7.33 | 582.7 | NA | 43.64 | 44.3 | NA | 2.04 | 0.5 | |
| 10:44 | 14 | 17.3 | 7.32 | 582.9 | NA | 45.6 | 45.8 | NA | 2.4 | 0.5 | |
| 10:46 | 15 | 16.5 | 7.32 | 584.8 | NA | 48.9 | 45.7 | NA | 2.55 | 0.5 | |
| 10:48 | 16 | 16.7 | 7.31 | 577.7 | NA | 47.1 | 41.6 | NA | 2.7 | 0.5 | |

| Sampled Date – 25/11/2022 | | | | | | | | | | Sampled By | Sirish Baniya |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Well ID | GW5 | | | | | | | | | Sample IDs | ST-01-1533-GW5(2) |
| Time | Parameters | | | | | | | | | Flow/ Purge Rate (L/min) | Additional Observations |
| | Volume removed (L) | Temperature (°C) | pH | Specific Conductance (µS/cm) | Total Dissolved Solids (TDS) | Dissolved Oxygen (DO) (%) | ORP (mV) | Turbidity (NTU) | Standing Water Level (m) | | |
| 12:08 | 1 | 18.7 | 7.55 | 3260 | NA | 48.0 | 8.7 | NA | 1.2 | 0.5 | |
| 12:08 | 2 | 17.9 | 7.52 | 3230 | NA | 42.81 | 10.0 | NA | 1.47 | 0.5 | |
| 12:08 | 3 | 17.8 | 7.54 | 3287 | NA | 44.0 | 10.6 | NA | 1.72 | 0.5 | |
| 12:08 | 4 | 17.6 | 7.53 | 3375 | NA | 41.6 | 11.4 | NA | 1.79 | 0.5 | |
| 12:08 | 5 | 17.6 | 7.55 | 3363 | NA | 41.3 | 12.5 | NA | 1.74 | 0.5 | |
| 12:08 | 6 | 17.5 | 7.50 | 3522 | NA | 37.5 | 13.1 | NA | 1.8 | 0.5 | |
| 12:08 | 7 | 17.5 | 7.47 | 3647 | NA | 34.3 | 12.9 | NA | 1.84 | 0.5 | |
| 12:08 | 8 | 17.5 | 7.46 | 3607 | NA | 34.7 | 14.1 | NA | 1.74 | 0.5 | |
| 12:08 | 9 | 17.4 | 7.46 | 3650 | NA | 34.3 | 14.4 | NA | 1.78 | 0.5 | |
| 12:08 | 10 | 17.3 | 7.46 | 3660 | NA | 34.7 | 14.2 | NA | 1.8 | 0.5 | |

| Sampled Date – 10/01/2023 | | | | | | | | | | Sampled By | Sirish Baniya |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Well ID | GW4 | | | | | | | | | Sample IDs | ST-01-1533-GW4(3) |
| Time | Parameters | | | | | | | | | Flow/ Purge Rate (L/min) | Additional Observations |
| | Volume removed (L) | Temperature (°C) | pH | Specific Conductance (µS/cm) | Total Dissolved Solids (TDS) | Dissolved Oxygen (DO) (%) | ORP (mV) | Turbidity (NTU) | Standing Water Level (m) | | |
| 10:36 | 1 | 19.0 | 7.36 | 630 | NA | 29 | 4.8 | NA | 3.91 | 0.5 | |
| 10:38 | 2 | 17.6 | 7.23 | 623 | NA | 230.3 | 47.3 | NA | 4.29 | 0.5 | |
| 10:40 | 3 | 17.9 | 7.25 | 622 | NA | 35.2 | 47.7 | NA | 5.2 | 0.5 | |
| 10:42 | 4 | 181 | 7.39 | 629 | NA | 22.5 | 36.1 | NA | 5.3 | 0.5 | |
| 10:44 | 5 | 17.6 | 7.41 | 628 | NA | 19.5 | 34.7 | NA | 5.33 | 0.5 | |
| 10:46 | 6 | 17.1 | 7.37 | 627 | NA | 17.7 | 36.4 | NA | 5.6 | 0.5 | |
| 10:48 | 7 | 17.1 | 7.32 | 628 | NA | 21.9 | 36.8 | NA | 5.88 | 0.5 | |
| 10:50 | 8 | 18.7 | 7.28 | 631 | NA | 38.6 | 33.7 | NA | 6.45 | 0.5 | |
| After 2 hours | | | | | | | | | | | |
| 13:02 | 9 | 19.3 | 7.44 | 624 | NA | 58.6 | 33.4 | NA | 4.45 | 0.5 | |
| 13:04 | 10 | 20.7 | 7.34 | 631 | NA | 46.1 | 18.9 | NA | 4.8 | 0.5 | |
| 13:06 | 11 | 18.3 | 7.38 | 642 | NA | 39.5 | 4..1 | NA | 5.3 | 0.5 | |
| 13:08 | 12 | 18.4 | 7.41 | 631 | NA | 38.2 | 5.6 | NA | 5.8 | 0.5 | |
| 13:10 | 13 | 22.0 | 7.43 | 620 | NA | 35.9 | 17.2 | NA | 6.08 | 0.5 | |
| 13:12 | 14 | 20.1 | 7.75 | 612 | NA | 24.5 | 32.5 | NA | 6.35 | 0.5 | |
| 13:14 | 15 | 22.3 | 7.57 | 616 | NA | 55.9 | 32.4 | NA | 6.45 | 0.5 | |
| After 1 hour | | | | | | | | | | | |
| 14:19 | 16 | 19.4 | 7.75 | 637 | NA | 57.99 | 2.4 | NA | 5.7 | 0.5 | |
| 14:21 | 17 | 18.7 | 7.52 | 633 | NA | 57.4 | 1.0 | NA | 6.0 | 0.5 | |
| 14:23 | 18 | 19.4 | 7.52 | 621 | NA | 62.2 | 10.3 | NA | 6.45 | 0.5 | |
| After 0.5 hours | | | | | | | | | | | |
| 14:59 | 19 | 20.6 | 7.68 | 637 | NA | 57.9 | 1.7 | NA | 6.2 | 0.5 | |
| 15:01 | 20 | 21.4 | 7.62 | 635 | NA | 50.4 | 2.7 | NA | 6.5 | 0.5 | |

| Sampled Date – 10/01/2023 | | | | | | | | | | Sampled By | Sirish Baniya |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Well ID | GW5 | | | | | | | | | Sample IDs | ST-01-1533-GW5(3) |
| Time | Parameters | | | | | | | | | Flow/ Purge Rate (L/min) | Additional Observations |
| | Volume removed (L) | Temperature (°C) | pH | Specific Conductance (µS/cm) | Total Dissolved Solids (TDS) | Dissolved Oxygen (DO) (%) | ORP (mV) | Turbidity (NTU) | Standing Water Level (m) | | |
| 11:36 | 1 | 19.2 | 7.23 | 4916 | NA | 33.0 | 23.5 | NA | 2.5 | 0.5 | |
| 11:38 | 2 | 19.1 | 7.38 | 4700 | NA | 36.7 | 16.1 | NA | 2.8 | 0.5 | |
| 11:40 | 3 | 18.3 | 7.37 | 4803 | NA | 32.1 | 12.6 | NA | 3.14 | 0.5 | Murky water |
| 11:42 | 4 | 18.4 | 7.41 | 4627 | NA | 40 | 9.1 | NA | 3.44 | 0.5 | |
| 11:44 | 5 | 20.1 | 7.46 | 4658 | NA | 54.8 | 8.3 | NA | 3.6 | 0.5 | |
| 11:48 | 7 | 19.9 | 7.48 | 4451 | NA | 37.1 | 10.2 | NA | 3.3 | 0.5 | |
| 11:50 | 8 | 18.8 | 7.45 | 4455 | NA | 37.5 | 10.1 | NA | 3.53 | 0.5 | |
| 11:52 | 9 | 21.3 | 7.44 | 3914 | NA | 45.2 | 7.5 | NA | 3.61 | 0.5 | |
| 11:54 | 10 | 21.8 | 7.49 | 3362 | NA | 32.8 | 5.3 | NA | 3.8 | 0.5 | |
| 11:56 | 11 | 19.6 | 7.42 | 3443 | NA | 30.8 | 6.5 | NA | 3.8 | 0.5 | |
| 11:58 | 12 | 21.2 | 7.43 | 2839 | NA | 33.1 | 6.1 | NA | 3.6 | 0.5 | |
| 12:00 | 14 | 21.6 | 7.44 | 3040 | NA | 34.6 | 8.9 | NA | 3.73 | 0.5 | |
| 12:02 | 15 | 18.7 | 7.46 | 2955 | NA | 32.3 | 2.8 | NA | 3.82 | 0.5 | |
| 12:04 | 16 | 18.7 | 7.48 | 2380 | NA | 29.2 | 2.7 | NA | 3.85 | 0.5 | |
| 12:06 | 17 | 19.7 | 7.43 | 2912 | NA | 29.0 | 3.9 | NA | 3.89 | 0.5 | |
| 12:08 | 18 | 19.9 | 7.47 | 2674 | NA | 29.2 | 0.9 | NA | 3.9 | 0.5 | |
| 12:10 | 19 | 21.3 | 7.54 | 2228 | NA | 37.7 | 10.5 | NA | 3.4 | 0.5 | |
| 12:12 | 20 | 19.2 | 7.52 | 2058 | NA | 34.1 | 9.2 | NA | 3.54 | 0.5 | |
| 12:14 | 21 | 19.4 | 7.52 | 1784 | NA | 30.0 | 12.3 | NA | 3.56 | 0.5 | |
| 12:16 | 22 | 20.2 | 7.52 | 1744 | NA | 30.3 | 12.9 | NA | 3.5 | 0.5 | |

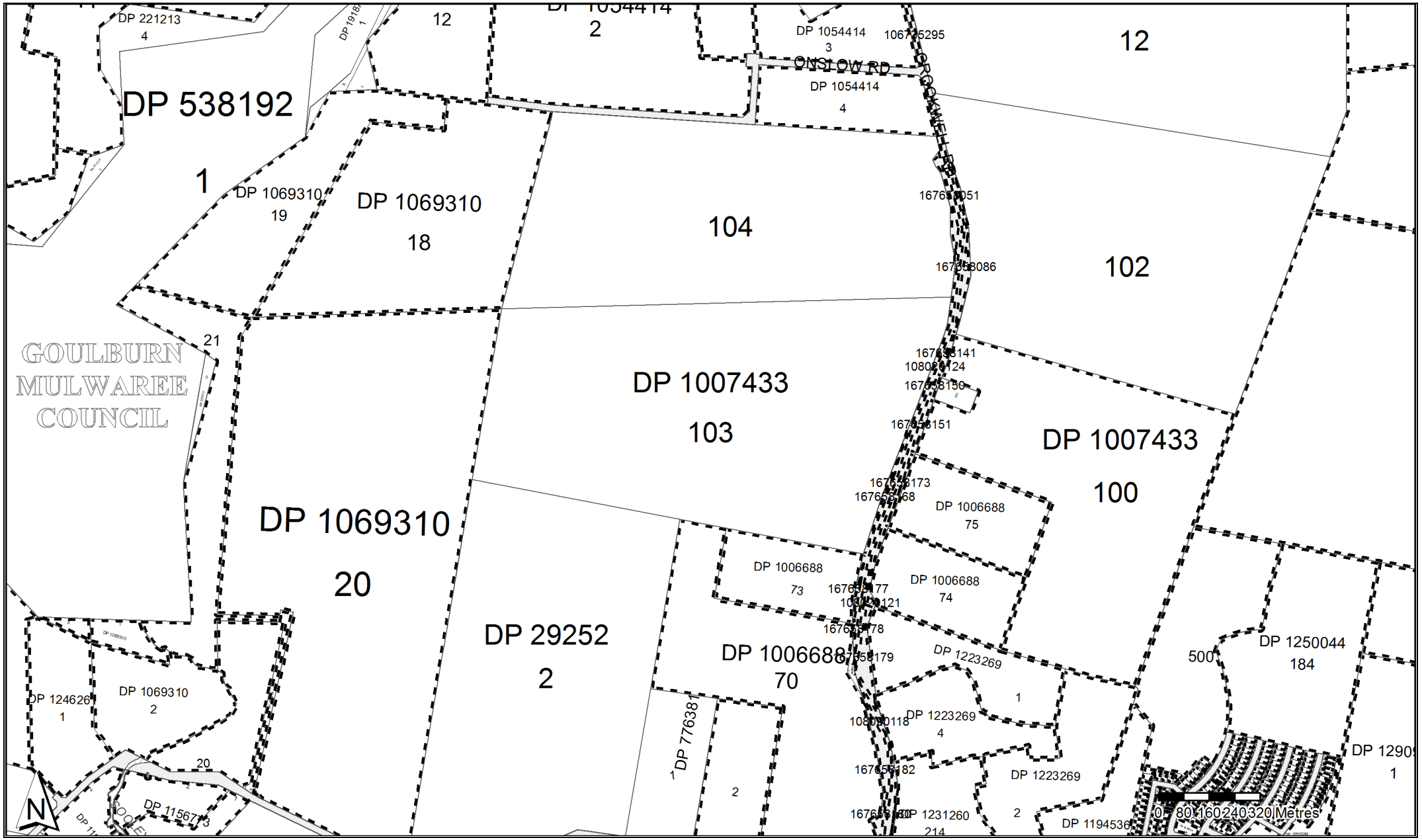
**Appendix X**

**Historical Title Search**

# Cadastral Records Enquiry Report : Lot 103 DP 1007433

**Ref :** NOUSER

**Locality :** KINGSDALE
**Parish :** NARRANGARRIL
**LGA :** GOULBURN MULWAREE
**County :** ARGYLE





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| | Status | Surv/Comp | Purpose |
|---|---|---|---|
| DP591422 | | | |
| Lot(s): 3 | | | |
| DP1171370 | REGISTERED | SURVEY | EASEMENT |
| NSW GAZ. 01-02-2013 Folio : 264<br>ACQUIRED FOR COUNCIL PURPOSES<br>EASEMENT FOR A WATER PIPELINE OVER THE SITE DESIGNATED (A) SHOWN IN DP1171370 | | | |
| NSW GAZ. 03-09-2013 Folio : 3945<br>ACQUIRED FOR COUNCIL PURPOSES<br>EASEMENT RIGHTS FOR PIPELINE AND WATER SUPPLY DESIGNATED (A) DESIGNATED IN DP1171370 | | | |
| DP776381 | | | |
| Lot(s): 2 | | | |
| DP1171370 | REGISTERED | SURVEY | EASEMENT |
| NSW GAZ. 01-02-2013 Folio : 264<br>ACQUIRED FOR COUNCIL PURPOSES<br>EASEMENT FOR A WATER PIPELINE OVER THE SITE DESIGNATED (A) SHOWN IN DP1171370 | | | |
| DP916825 | | | |
| Lot(s): 1 | | | |
| DP1159489 | REGISTERED | SURVEY | EASEMENT |
| NSW GAZ. 20-06-2011 Folio : 4499<br>PROPOSED EASEMENT FOR PIPELINE AND WATER SUPPLY 20 WIDE SHOWN IN DP1159489 ACQUIRED FOR A WATER PIPELINE | | | |
| DP1006688 | | | |
| Lot(s): 70, 73, 74, 75 | | | |
| DP1171370 | REGISTERED | SURVEY | EASEMENT |
| NSW GAZ. 01-02-2013 Folio : 264<br>ACQUIRED FOR COUNCIL PURPOSES<br>EASEMENT FOR A WATER PIPELINE OVER THE SITE DESIGNATED (A) SHOWN IN DP1171370 | | | |
| Lot(s): 70 | | | |
| DP1159489 | REGISTERED | SURVEY | EASEMENT |
| Lot(s): 73, 83 | | | |
| DP776381 | HISTORICAL | SURVEY | SUBDIVISION |
| Lot(s): 74, 75 | | | |
| DP562173 | HISTORICAL | SURVEY | SUBDIVISION |
| DP1007433 | | | |
| Lot(s): 100 | | | |
| DP1171370 | REGISTERED | SURVEY | EASEMENT |
| NSW GAZ. 01-02-2013 Folio : 264<br>ACQUIRED FOR COUNCIL PURPOSES<br>EASEMENT FOR A WATER PIPELINE OVER THE SITE DESIGNATED (A) SHOWN IN DP1171370 | | | |
| DP1020257 | | | |
| Lot(s): 3, 6 | | | |
| DP825405 | HISTORICAL | SURVEY | SUBDIVISION |
| Lot(s): 3 | | | |
| DP566652 | HISTORICAL | SURVEY | SUBDIVISION |
| DP1054414 | | | |
| Lot(s): 1, 2, 3, 4 | | | |
| DP593449 | HISTORICAL | SURVEY | SUBDIVISION |
| DP1013381 | HISTORICAL | SURVEY | SUBDIVISION |
| DP1069310 | | | |
| Lot(s): 3 | | | |
| DP1246261 | REGISTERED | COMPILATION | SUBDIVISION |
| Lot(s): 8, 9, 11 | | | |
| DP112435 | HISTORICAL | COMPILATION | DEPARTMENTAL |
| DP707646 | HISTORICAL | SURVEY | SUBDIVISION |
| DP1008018 | HISTORICAL | SURVEY | ROADS ACT, 1993 |
| DP1018901 | HISTORICAL | SURVEY | SUBDIVISION |
| DP1067552 | HISTORICAL | SURVEY | SUBDIVISION |

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| | Status | Surv/Comp | Purpose |
|---|---|---|---|
| Lot(s): 12 | | | |
| DP1054414 | HISTORICAL | SURVEY | SUBDIVISION |
| NSW GAZ. 29-02-2008 VESTED IN COUNCIL LOT 10 DP1069310 | | | Folio : 1393 |
| Lot(s): 8, 9, 11, 12 | | | |
| DP1013381 | HISTORICAL | SURVEY | SUBDIVISION |
| Lot(s): 1, 2, 3 | | | |
| DP836697 | HISTORICAL | SURVEY | SUBDIVISION |
| Lot(s): 12, 18, 19 | | | |
| DP593449 | HISTORICAL | SURVEY | SUBDIVISION |
| Lot(s): 20, 21, 23 | | | |
| DP221213 | HISTORICAL | SURVEY | SUBDIVISION |
| DP1156773 | | | |
| Lot(s): 1, 2 | | | |
| DP772 | HISTORICAL | SURVEY | UNRESEARCHED |
| DP807233 | HISTORICAL | SURVEY | RESUMPTION OR ACQUISITION |
| DP1194536 | | | |
| Lot(s): 1 | | | |
| DP1006688 | HISTORICAL | SURVEY | ROADS ACT, 1993 |
| DP1162160 | HISTORICAL | SURVEY | SUBDIVISION |
| DP1222910 | | | |
| Lot(s): 4113 | | | |
| DP632246 | HISTORICAL | SURVEY | SUBDIVISION |
| DP663180 | HISTORICAL | COMPILATION | DEPARTMENTAL |
| DP1112492 | HISTORICAL | SURVEY | ROADS ACT, 1993 |
| DP1115179 | HISTORICAL | SURVEY | SUBDIVISION |
| DP1123715 | HISTORICAL | SURVEY | SUBDIVISION |
| DP1128589 | HISTORICAL | SURVEY | ROADS ACT, 1993 |
| DP1137540 | HISTORICAL | SURVEY | SUBDIVISION |
| DP1149940 | HISTORICAL | SURVEY | SUBDIVISION |
| DP1167563 | HISTORICAL | SURVEY | SUBDIVISION |
| DP1190984 | HISTORICAL | SURVEY | SUBDIVISION |
| DP1218431 | HISTORICAL | SURVEY | SUBDIVISION |
| DP1223269 | | | |
| Lot(s): 1, 2, 4 | | | |
| DP1006688 | HISTORICAL | SURVEY | ROADS ACT, 1993 |
| DP1162160 | HISTORICAL | SURVEY | SUBDIVISION |
| DP1194536 | HISTORICAL | SURVEY | SUBDIVISION |
| DP1231260 | | | |
| Lot(s): 214 | | | |
| DP1006688 | HISTORICAL | SURVEY | ROADS ACT, 1993 |
| DP1162160 | HISTORICAL | SURVEY | SUBDIVISION |
| DP1194536 | HISTORICAL | SURVEY | SUBDIVISION |
| DP1223269 | HISTORICAL | SURVEY | SUBDIVISION |
| DP1231885 | | | |
| Lot(s): 411, 412, 413, 414, 415, 416, 417, 418, 419, 420 | | | |
| DP655608 | HISTORICAL | COMPILATION | DEPARTMENTAL |

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| | Status | Surv/Comp | Purpose |
|---|---|---|---|
| DP1232423 | | | |
| Lot(s): 4303, 4304, 4305, 4306, 4307, 4308, 4309, 4310, 4311, 4312, 4313, 4319, 4320, 4321, 4322, 4323, 4325 | | | |
| DP632246 | HISTORICAL | SURVEY | SUBDIVISION |
| DP663180 | HISTORICAL | COMPILATION | DEPARTMENTAL |
| DP1112492 | HISTORICAL | SURVEY | ROADS ACT, 1993 |
| DP1115179 | HISTORICAL | SURVEY | SUBDIVISION |
| DP1123715 | HISTORICAL | SURVEY | SUBDIVISION |
| DP1128589 | HISTORICAL | SURVEY | ROADS ACT, 1993 |
| DP1137540 | HISTORICAL | SURVEY | SUBDIVISION |
| DP1149940 | HISTORICAL | SURVEY | SUBDIVISION |
| DP1167563 | HISTORICAL | SURVEY | SUBDIVISION |
| DP1190984 | HISTORICAL | SURVEY | SUBDIVISION |
| DP1218431 | HISTORICAL | SURVEY | SUBDIVISION |
| DP1222910 | HISTORICAL | SURVEY | SUBDIVISION |
| DP1227190 | HISTORICAL | SURVEY | SUBDIVISION |
| DP1246261 | | | |
| Lot(s): 1, 2 | | | |
| DP836697 | HISTORICAL | SURVEY | SUBDIVISION |
| DP1069310 | HISTORICAL | SURVEY | RESUMPTION OR ACQUISITION |
| DP1247515 | | | |
| Lot(s): 500 | | | |
| DP479 | HISTORICAL | COMPILATION | UNRESEARCHED |
| DP1250044 | REGISTERED | SURVEY | SUBDIVISION |
| DP1270209 | REGISTERED | SURVEY | SUBDIVISION |
| NSW GAZ. 01-02-2013 Folio : 264<br>ACQUIRED FOR COUNCIL PURPOSES<br>EASEMENT FOR A WATER PIPELINE OVER THE SITE DESIGNATED (A) SHOWN IN DP1171370 | | | |
| DP1250044 | | | |
| Lot(s): 184 | | | |
| DP1269362 | REGISTERED | SURVEY | SUBDIVISION |
| DP1273892 | PRE-ALLOCATED | UNAVAILABLE | SUBDIVISION |
| DP1274065 | PRE-ALLOCATED | UNAVAILABLE | SUBDIVISION |
| DP1285837 | PRE-ALLOCATED | UNAVAILABLE | SUBDIVISION |
| DP1285838 | PRE-ALLOCATED | UNAVAILABLE | SUBDIVISION |
| Lot(s): 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 132, 133, 134, 135, 136, 137, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 150, 151, 152, 153, 154, 156, 161, 162, 163, 164, 166, 167, 168, 170, 171, 172, 173, 174, 175, 176, 177, 178, 181, 182, 183, 184 | | | |
| DP479 | HISTORICAL | COMPILATION | UNRESEARCHED |
| DP1247515 | HISTORICAL | SURVEY | SUBDIVISION |
| DP1269362 | | | |
| Lot(s): 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255 | | | |
| DP479 | HISTORICAL | COMPILATION | UNRESEARCHED |
| DP1247515 | HISTORICAL | SURVEY | SUBDIVISION |
| DP1250044 | HISTORICAL | SURVEY | SUBDIVISION |
| Lot(s): 250 | | | |
| SP105650 | PRE-ALLOCATED | UNAVAILABLE | STRATA PLAN |
| Lot(s): 216 | | | |
| SP105646 | PRE-ALLOCATED | UNAVAILABLE | STRATA PLAN |
| Lot(s): 252 | | | |
| SP105643 | PRE-ALLOCATED | UNAVAILABLE | STRATA PLAN |
| Lot(s): 222 | | | |
| SP105518 | PRE-ALLOCATED | UNAVAILABLE | STRATA PLAN |
| Lot(s): 248 | | | |
| SP105516 | PRE-ALLOCATED | UNAVAILABLE | STRATA PLAN |
| Lot(s): 245 | | | |
| SP105515 | PRE-ALLOCATED | UNAVAILABLE | STRATA PLAN |

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| | Status | Surv/Comp | Purpose |
|---|---|---|---|
| Lot(s): 247 | | | |
| SP105165 | PRE-ALLOCATED | UNAVAILABLE | STRATA PLAN |
| DP1270209 | | | |
| Lot(s): 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293 | | | |
| DP479 | HISTORICAL | COMPILATION | UNRESEARCHED |
| DP1247515 | HISTORICAL | SURVEY | SUBDIVISION |
| DP1250044 | HISTORICAL | SURVEY | SUBDIVISION |
| DP1274034 | | | |
| Lot(s): 381, 382 | | | |
| DP479 | HISTORICAL | COMPILATION | UNRESEARCHED |
| DP1247515 | HISTORICAL | SURVEY | SUBDIVISION |
| DP1250044 | HISTORICAL | SURVEY | SUBDIVISION |
| DP1274946 | | | |
| Lot(s): 301, 302 | | | |
| DP479 | HISTORICAL | COMPILATION | UNRESEARCHED |
| DP1247515 | HISTORICAL | SURVEY | SUBDIVISION |
| DP1250044 | HISTORICAL | SURVEY | SUBDIVISION |
| DP1275530 | | | |
| Lot(s): 1, 2 | | | |
| DP479 | HISTORICAL | COMPILATION | UNRESEARCHED |
| DP1247515 | HISTORICAL | SURVEY | SUBDIVISION |
| DP1250044 | HISTORICAL | SURVEY | SUBDIVISION |
| DP1282751 | | | |
| Lot(s): 601, 602 | | | |
| DP479 | HISTORICAL | COMPILATION | UNRESEARCHED |
| DP1247515 | HISTORICAL | SURVEY | SUBDIVISION |
| DP1250044 | HISTORICAL | SURVEY | SUBDIVISION |
| DP1284817 | | | |
| Lot(s): 165 | | | |
| DP1006688 | HISTORICAL | SURVEY | ROADS ACT, 1993 |
| DP1162160 | HISTORICAL | SURVEY | SUBDIVISION |
| DP1188480 | HISTORICAL | SURVEY | SUBDIVISION |
| DP1194537 | HISTORICAL | SURVEY | SUBDIVISION |
| DP1231260 | HISTORICAL | SURVEY | SUBDIVISION |
| DP1240616 | HISTORICAL | SURVEY | SUBDIVISION |
| DP1290900 | | | |
| Lot(s): 1, 2 | | | |
| DP650291 | HISTORICAL | COMPILATION | DEPARTMENTAL |
| DP1225759 | HISTORICAL | SURVEY | SUBDIVISION |
| Road | | | |
| Polygon Id(s): 167658182 | | | |
| NSW GAZ. 25-05-2012 Folio : 2224<br>DEDICATED PUBLIC ROAD<br>LOT 78 DP1006688 | | | |
| Polygon Id(s): 167658181, 167658180, 167658179, 167658178 | | | |
| NSW GAZ. 25-05-2012 Folio : 2224<br>DEDICATED PUBLIC ROAD<br>LOTS 79-82 DP1006688 | | | |
| Polygon Id(s): 167658168, 167658151, 167658150, 167658141, 167658086, 167658051 | | | |
| NSW GAZ. 25-05-2012 Folio : 4222<br>DEDICATED PUBLIC ROAD<br>LOTS 105-110 DP1007433 | | | |
| SP103510 | | | |
| DP479 | HISTORICAL | COMPILATION | UNRESEARCHED |
| DP1247515 | HISTORICAL | SURVEY | SUBDIVISION |
| DP1250044 | HISTORICAL | SURVEY | SUBDIVISION |

**Caution:** This information is provided as a searching aid only. Whilst every endeavour is made the ensure that current map, plan and titling information is accurately reflected, the Registrar General cannot guarantee the information provided. For **ALL ACTIVITY PRIOR TO SEPTEMBER 2002** you must refer to the RGs Charting and Reference Maps.



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| | Status | Surv/Comp | Purpose |
|---|---|---|---|
| SP103650 | | | |
| DP479 | HISTORICAL | COMPILATION | UNRESEARCHED |
| DP1247515 | HISTORICAL | SURVEY | SUBDIVISION |
| DP1250044 | HISTORICAL | SURVEY | SUBDIVISION |
| SP103661 | | | |
| DP479 | HISTORICAL | COMPILATION | UNRESEARCHED |
| DP1247515 | HISTORICAL | SURVEY | SUBDIVISION |
| DP1250044 | HISTORICAL | SURVEY | SUBDIVISION |
| SP103829 | | | |
| DP632246 | HISTORICAL | SURVEY | SUBDIVISION |
| DP663180 | HISTORICAL | COMPILATION | DEPARTMENTAL |
| DP1112492 | HISTORICAL | SURVEY | ROADS ACT, 1993 |
| DP1115179 | HISTORICAL | SURVEY | SUBDIVISION |
| DP1123715 | HISTORICAL | SURVEY | SUBDIVISION |
| DP1128589 | HISTORICAL | SURVEY | ROADS ACT, 1993 |
| DP1137540 | HISTORICAL | SURVEY | SUBDIVISION |
| DP1149940 | HISTORICAL | SURVEY | SUBDIVISION |
| DP1167563 | HISTORICAL | SURVEY | SUBDIVISION |
| DP1190984 | HISTORICAL | SURVEY | SUBDIVISION |
| DP1218431 | HISTORICAL | SURVEY | SUBDIVISION |
| DP1222910 | HISTORICAL | SURVEY | SUBDIVISION |
| DP1227190 | HISTORICAL | SURVEY | SUBDIVISION |
| DP1232423 | HISTORICAL | SURVEY | SUBDIVISION |
| SP103994 | | | |
| DP479 | HISTORICAL | COMPILATION | UNRESEARCHED |
| DP1247515 | HISTORICAL | SURVEY | SUBDIVISION |
| DP1250044 | HISTORICAL | SURVEY | SUBDIVISION |
| SP104204 | | | |
| DP479 | HISTORICAL | COMPILATION | UNRESEARCHED |
| DP1247515 | HISTORICAL | SURVEY | SUBDIVISION |
| DP1250044 | HISTORICAL | SURVEY | SUBDIVISION |
| SP104567 | | | |
| DP479 | HISTORICAL | COMPILATION | UNRESEARCHED |
| DP1247515 | HISTORICAL | SURVEY | SUBDIVISION |
| DP1250044 | HISTORICAL | SURVEY | SUBDIVISION |
| SP104838 | | | |
| DP479 | HISTORICAL | COMPILATION | UNRESEARCHED |
| DP1247515 | HISTORICAL | SURVEY | SUBDIVISION |
| DP1250044 | HISTORICAL | SURVEY | SUBDIVISION |
| SP104928 | | | |
| DP479 | HISTORICAL | COMPILATION | UNRESEARCHED |
| DP1247515 | HISTORICAL | SURVEY | SUBDIVISION |
| DP1250044 | HISTORICAL | SURVEY | SUBDIVISION |

Road

Polygon Id(s): 106735295

NSW GAZ. 25-05-2012 Folio : 2224
DEDICATED PUBLIC ROAD
LOTS 1-11 DP223942

Polygon Id(s): 108020118, 108020124

NSW GAZ. 06-08-2004 Folio : 6427
ACQUIRED FOR THE PURPOSES OF THE ROADS ACT, 1993
LOTS 76-77 DP1006688

PA81678 - LOT 31 DP1039776, LOTS 76-77 DP1006688 AND LOTS 58-60 DP1008018

Polygon Id(s): 108020121, 167658177, 167658173

NSW GAZ. 25-05-2012 Folio : 2224
DEDICATED PUBLIC ROAD
LOTS 83-85 DP1006688

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| Plan | Surv/Comp | Purpose |
|---|---|---|
| DP29252 | SURVEY | UNRESEARCHED |
| DP124099 | COMPILATION | DEPARTMENTAL |
| DP126275 | COMPILATION | DEPARTMENTAL |
| DP191872 | SURVEY | UNRESEARCHED |
| DP221213 | SURVEY | SUBDIVISION |
| DP538192 | COMPILATION | DEPARTMENTAL |
| DP591422 | COMPILATION | SUBDIVISION |
| DP749333 | COMPILATION | SUBDIVISION |
| DP776381 | SURVEY | SUBDIVISION |
| DP786705 | COMPILATION | SUBDIVISION |
| DP807233 | SURVEY | RESUMPTION OR ACQUISITION |
| DP836697 | SURVEY | SUBDIVISION |
| DP912247 | COMPILATION | UNRESEARCHED |
| DP916825 | COMPILATION | UNRESEARCHED |
| DP1006688 | SURVEY | ROADS ACT, 1993 |
| DP1007433 | SURVEY | ROADS ACT, 1993 |
| DP1020257 | SURVEY | SUBDIVISION |
| DP1054414 | SURVEY | SUBDIVISION |
| DP1069310 | SURVEY | RESUMPTION OR ACQUISITION |
| DP1156773 | SURVEY | SUBDIVISION |
| DP1194536 | SURVEY | SUBDIVISION |
| DP1194536 | UNRESEARCHED | SUBDIVISION |
| DP1222910 | SURVEY | SUBDIVISION |
| DP1222910 | UNRESEARCHED | SUBDIVISION |
| DP1223269 | SURVEY | SUBDIVISION |
| DP1223269 | UNRESEARCHED | SUBDIVISION |
| DP1231260 | SURVEY | SUBDIVISION |
| DP1231885 | SURVEY | SUBDIVISION |
| DP1231885 | UNRESEARCHED | SUBDIVISION |
| DP1232423 | SURVEY | SUBDIVISION |
| DP1232423 | UNRESEARCHED | SUBDIVISION |
| DP1246261 | COMPILATION | SUBDIVISION |
| DP1247515 | SURVEY | SUBDIVISION |
| DP1247515 | UNRESEARCHED | SUBDIVISION |
| DP1250044 | SURVEY | SUBDIVISION |
| DP1250044 | UNRESEARCHED | SUBDIVISION |
| DP1269362 | SURVEY | SUBDIVISION |
| DP1269362 | UNRESEARCHED | SUBDIVISION |
| DP1270209 | SURVEY | SUBDIVISION |
| DP1270209 | UNRESEARCHED | SUBDIVISION |
| DP1274034 | SURVEY | SUBDIVISION |
| DP1274946 | SURVEY | SUBDIVISION |
| DP1275530 | SURVEY | SUBDIVISION |
| DP1282751 | SURVEY | SUBDIVISION |
| DP1284817 | SURVEY | SUBDIVISION |
| DP1284817 | UNRESEARCHED | SUBDIVISION |
| DP1290900 | SURVEY | SUBDIVISION |
| SP103510 | COMPILATION | STRATA PLAN |
| SP103510 | UNRESEARCHED | STRATA PLAN |
| SP103650 | COMPILATION | STRATA PLAN |
| SP103661 | COMPILATION | STRATA PLAN |
| SP103829 | COMPILATION | STRATA PLAN |
| SP103829 | UNRESEARCHED | STRATA PLAN |
| SP103994 | COMPILATION | STRATA PLAN |
| SP104204 | COMPILATION | STRATA PLAN |
| SP104567 | COMPILATION | STRATA PLAN |
| SP104838 | COMPILATION | STRATA PLAN |
| SP104928 | COMPILATION | STRATA PLAN |

**Caution:** This information is provided as a searching aid only. Whilst every endeavour is made the ensure that current map, plan and titling information is accurately reflected, the Registrar General cannot guarantee the information provided. For **ALL ACTIVITY PRIOR TO SEPTEMBER 2002** you must refer to the RGs Charting and Reference Maps.



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Req:R006799 /Doc:CT 11532-250 CT /Rev:27-Jan-2011 /NSW LRS /Pgs:ALL /Prt:24-Jan-2023 09:16 /Seq:1 of 2
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NEW SOUTH WALES

# [redacted]FICATE OF TITLE

AL PROPERTY ACT, 1900.

11532250

Vol. 11532 Fol. 250

Appln. No.1925

Prior Title Vol.7757 Fols.177 and 178

Edition issued 24-2-1971

M53645

I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in the land within described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schedule.

CANCELLED

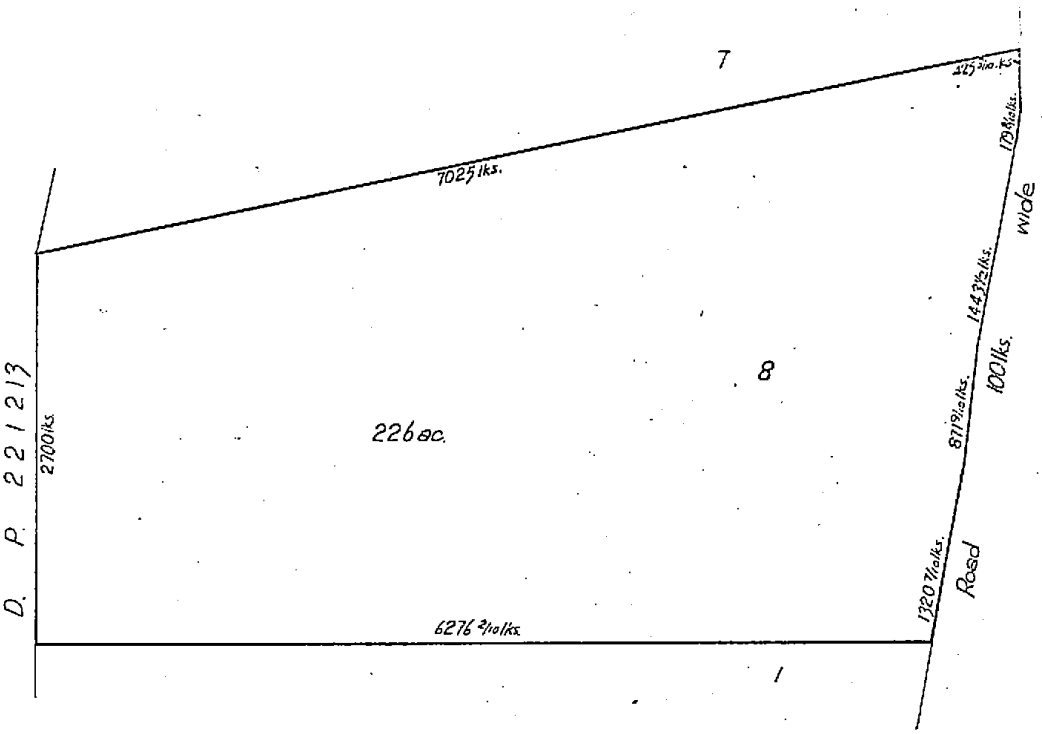
Registrar General.

11532 Fol. 250

(Page [illegible] Vol.

## PLAN SHOWING LOCATION OF LAND

**SEE AUTO FOLIO**




Scale: 10chains to one inch.

M53645 R.N.

S

## ESTATE AND LAND REFERRED TO

Estate in Fee Simple in Lot 8 in Deposited Plan 29252 in the Shire of Mulwaree Parish of Narrangaril and County of Argyle being part of Portion 1 granted to Hannibal Hawkins Macarthur on 6-7-1835.

## FIRST SCHEDULE

~~DAVID JOHN TOZER, Grazier as to an undivided one-half share, JEAN FRANCES TOZER, his wife~~ as to an undivided one-fourth share and ~~DOUGLAS THOMAS TOZER, Grazier, as to the remaining undivided one-fourth share, all of Jerangle, as Tenants in Common.~~

## SECOND SCHEDULE

GRY 1. Reservations and conditions, if any, contained in the Crown Grant above referred to.

Registrar General

WARNING THIS DOCUMENT MUST NOT BE REMOVED FROM THE LAND TITLES OFFICE

PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED

17 V.C.N. Blight, Government Printer

Vol. 11532 Fol 250

## FIRST SCHEDULE (continued)

| REGISTERED PROPRIETOR | INSTRUMENT NATURE | INSTRUMENT NUMBER | INSTRUMENT DATE | ENTERED | Signature of Registrar-General |
|---|---|---|---|---|---|
| Onslow Pastoral Pty. Limited. | Transfer | Q678797 | — | 16-1978 | |

CANCELLED

SEE AUTO FOLIO

## SECOND SCHEDULE (continued)

| INSTRUMENT NATURE | INSTRUMENT NUMBER | INSTRUMENT DATE | PARTICULARS | ENTERED | Signature of Registrar-General | CANCELLATION | | |
|---|---|---|---|---|---|---|---|---|
| Mortgage | M153149 | 2.11.1970 | To William Thomas Phillips, Gladys Phillips and John Phillips | 24.2.1971 | | Recharged | Q456009 | |
| Mortgage | M169055 | 2.11.1970 | To Bank of New South Wales | 24.5.1971 | | Discharged | Q851512 | |
| Mortgage | Q851513 P | | to Bank of New South Wales | 11-9-1978 | | | | |

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR-GENERAL ARE CANCELLED

(Page 2 of 2 pages)

M

P58 2514 pin K (M55 T2119)
Q456009 d/f
~~DP583449~~
CT 13/4/78
Q678797L
Q851512 D/S — 13 m.

Req:R006799 /Doc:CT 11532-250 CT /Rev:27-Jan-2011 /NSW LRS /Pgs:ALL /Prt:24-Jan-2023 09:16 /Seq:2 of 2
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Req:R006815 /Doc:DL 9096411 /Rev:08-Nov-2002 /NSW LRS /Pgs:ALL /Prt:24-Jan-2023 09:18 /Seq:1 of 1
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Form: 01T
Licence: 01-08-067
Licensee: Midware Systems
Matthews Folbigg Pty Limited

# TRANSFER
New South Wales
Real Property Act 1900

9096411K

PRIVACY NOTE: this information is legally required and will bec

**STAMP DUTY** Office of State Revenue use only

NEW SOUTH WALES DUTY
01-08-2002 0001064072-001
SECTION 18(2)
DUTY $ **********2.00

**(A) TORRENS TITLE** If appropriate, specify the part transferred
Folio Identifier 103/1007433 and 104/1007433

**(B) LODGED BY**

| Delivery Box | Name, Address or DX and Telephone | CODE |
|---|---|---|
| 307V | MATTHEWS FOLBIGG PTY LIMITED<br>DX 8233 PARRAMATTA Tel: 96357966<br>Reference (optional): AVZ.PBM 13655 | T<br>TW<br>(Sheriff) |

**(C) TRANSFEROR** ONSLOW PASTORAL PTY LIMITED ARBN 60054 176 258

**(D) CONSIDERATION** The transferor acknowledges receipt of the consideration of $ 1,000,000.00 and as regards

**(E) ESTATE** the land specified above transfers to the transferee an estate in fee simple.

**(F) SHARE TRANSFERRED**

**(G)** Encumbrances (if applicable):

**(H) TRANSFEREE** **ALIMACO PTY LTD** ACN 002 859 190

**(I) TENANCY:**

**(J) DATE** 01/11/2002

Please complete

Certified correct for the purposes of the Real Property Act 1900 by the corporation named below the common seal of which was affixed pursuant to the authority specified and in the presence of the authorised person(s) whose signature(s) appear(s) below.
Corporation: ONSLOW PASTORAL PTY LIMITED ARBN 60054 176 258
Authority: Section 127 of the Corporations Act 2001

ONSLOW PASTORAL PTY. LIMITED A.C.N. 007 513 202 Common Seal

Signature of authorised person: D.T.Tozer
Name of authorised person: D.T. TOZER
Office held: DIRECTOR

Signature of authorised person: B M Tozer
Name of authorised person: BARBARA MAY TOZER
Office held: SECRETARY/DIRECTOR.

Certified correct for the purposes of the Real Property Act 1900 by the person whose signature appears below.

Signature:
Signatory's name: PAUL MATTHEWS
Signatory's capacity: Solicitor for the transferee

All handwriting must be in block capitals.



Number additional pages sequentially

# PLAN FORM 2

Plan Drawing only to appear in this space

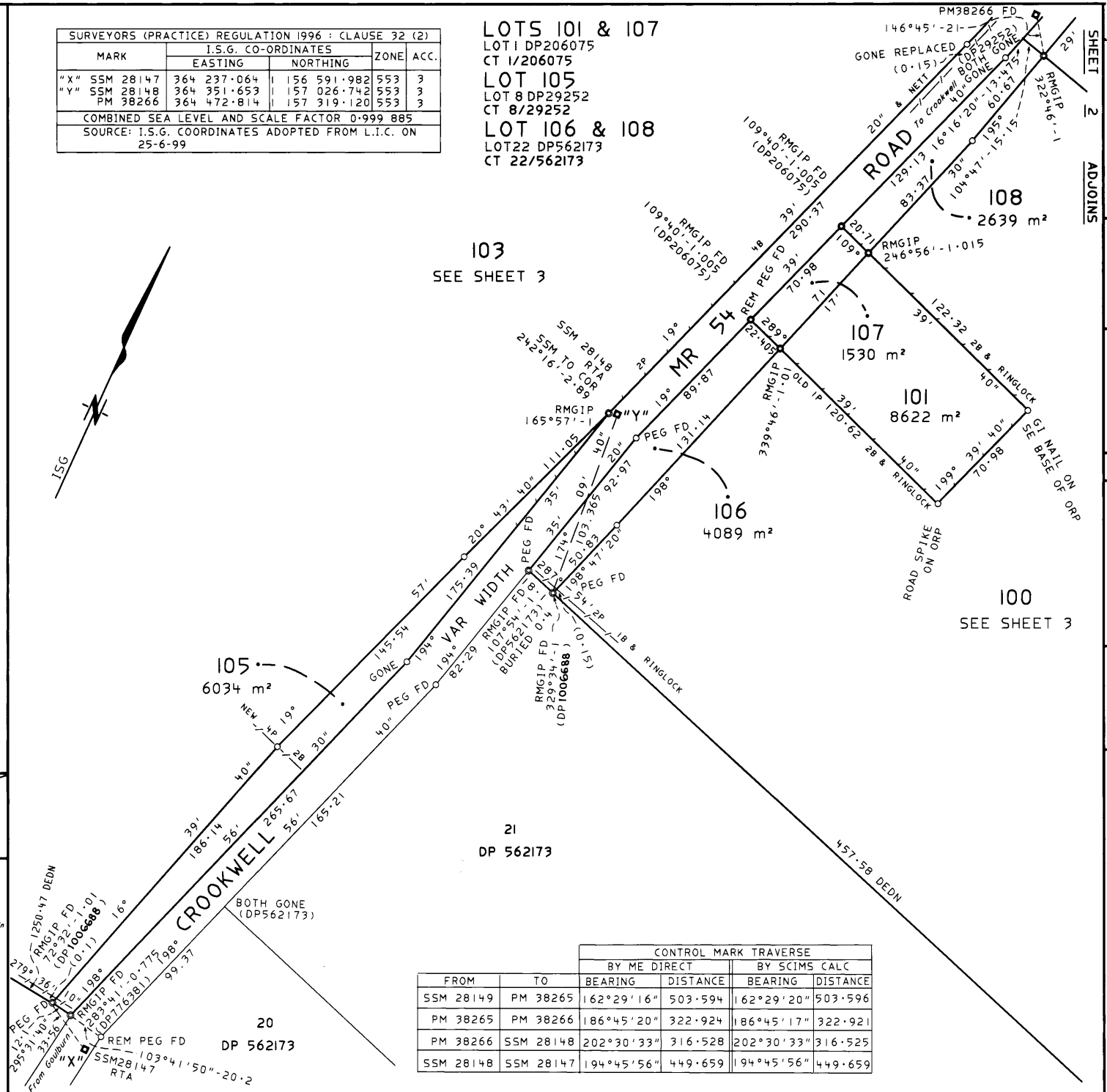
SIGNATURES AND SEALS ONLY

| SURVEYORS (PRACTICE) REGULATION 1996 : CLAUSE 32 (2) | | | | |
|---|---|---|---|---|
| MARK | I.S.G. CO-ORDINATES EASTING | I.S.G. CO-ORDINATES NORTHING | ZONE | ACC. |
| "X" SSM 28147 | 364 237·064 | 156 591·982 | 553 | 3 |
| "Y" SSM 28148 | 364 351·653 | 157 026·742 | 553 | 3 |
| PM 38266 | 364 472·814 | 157 319·120 | 553 | 3 |
| COMBINED SEA LEVEL AND SCALE FACTOR 0·999 885 | | | | |
| SOURCE: I.S.G. COORDINATES ADOPTED FROM L.I.C. ON 25-6-99 | | | | |

**LOTS 101 & 107**
LOT 1 DP206075
CT 1/206075

**LOT 105**
LOT 8 DP29252
CT 8/29252

**LOT 106 & 108**
LOT 22 DP562173
CT 22/562173




| CONTROL MARK TRAVERSE | | | | | |
|---|---|---|---|---|---|
| | | BY ME DIRECT | | BY SCIMS CALC | |
| FROM | TO | BEARING | DISTANCE | BEARING | DISTANCE |
| SSM 28149 | PM 38265 | 162°29'16" | 503·594 | 162°29'20" | 503·596 |
| PM 38265 | PM 38266 | 186°45'20" | 322·924 | 186°45'17" | 322·921 |
| PM 38266 | SSM 28148 | 202°30'33" | 316·528 | 202°30'33" | 316·525 |
| SSM 28148 | SSM 28147 | 194°45'56" | 449·659 | 194°45'56" | 449·659 |

**Crown Lands Office Approval**

PLAN APPROVED: ..... Authorised Officer

Land District: .....

Paper No.: .....

Field Book No.: ..... pages .....

**Subdivision Certificate**

*I certify that the provisions of s.109J of the Environmental Planning and Assessment Act 1979 have been satisfied in relation to the proposed*

..... set out herein
*(Insert 'subdivision' or 'new road')*

..... ** Authorised Person/General Manager/Accredited Certifier..*

*Consent Authority:* .....

*Date of endorsement:* .....

*Accreditation No.:* .....

*Subdivision Certificate No.:* .....

*File No.:* .....

*When the plan is to be lodged electronically in the Land Titles Office, it should include a signature in an electronic or digital format approved by the Registrar-General.*

** Delete whichever is inapplicable*

# DP1007433

Registered: 16.11.1999

C.A.: .....

Title System: TORRENS

Purpose: ROADS ACT, 1993

Ref. Map: ~~0828-15~~ PARISH

Last Plan: DP 29252* DP 206075* DP 562173 DP 593449

PLAN OF LAND TO BE ACQUIRED FOR THE PURPOSES OF THE ROADS ACT, 1993.

Lengths are in metres. Reduction Ratio 1:1500

L.G.A.: MULWAREE SHIRE

Locality: KINGSDALE

Parish: NARRANGARRIL

County: ARGYLE (30)

This is sheet 1 of my plan in 3 sheets. (Delete if inapplicable).

I, ANTHONY JOHN BAMFORTH
of ROADS & TRAFFIC AUTHORITY, N.S.W.
*a surveyor registered under the Surveyors Act 1929, hereby certify that the survey represented in this plan is accurate, has been made in accordance with the Surveyors (Practice) Regulation 1996 and was completed on:* 3-9-1999
*The survey relates to* .....
*(here specify the land actually surveyed or specify any land shown in the plan that is not the subject of the survey)*
*Datum Line:* "X" - "Y" (SHEET 1)
*Zone:* COUNTRY
*Signature:* Anthony Bamforth 23/9/99
*Surveyor registered under the Surveyors Act 1929.*

Plans used in preparation of survey / ~~compilation~~
DP 29252 DP 499002 DP 776381
DP 41839 DP 562173
DP 206075 DP 593449
DP 223942 DP 617136
RTA CONTROL PLAN: 0054 297 CS 8018
RTA F BK/FOIL NOS: 0054 297 FP7002/7003
NOT WITHIN PSA RH

PANEL FOR USE ONLY for statements of intention to dedicate public roads or to create public reserves, drainage reserves, easements, restrictions on the use of land or positive covenants.

LOTS 105 TO 110 INCLUSIVE ARE REQUIRED FOR PUBLIC ROAD UNDER SECTION 10 OF THE ROADS ACT 1993

APPROVED:
Anthony Bamforth
SURVEY MANAGER
GOULBURN TECHNICAL SERVICES
ROADS AND TRAFFIC AUTHORITY

10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 Table of mm 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 380 390

SURVEYOR'S REFERENCE: SI678 & CHECKLIST

**WARNING : CREASING OR FOLDING WILL LEAD TO REJECTION**

H.O.FILE: 99M4429

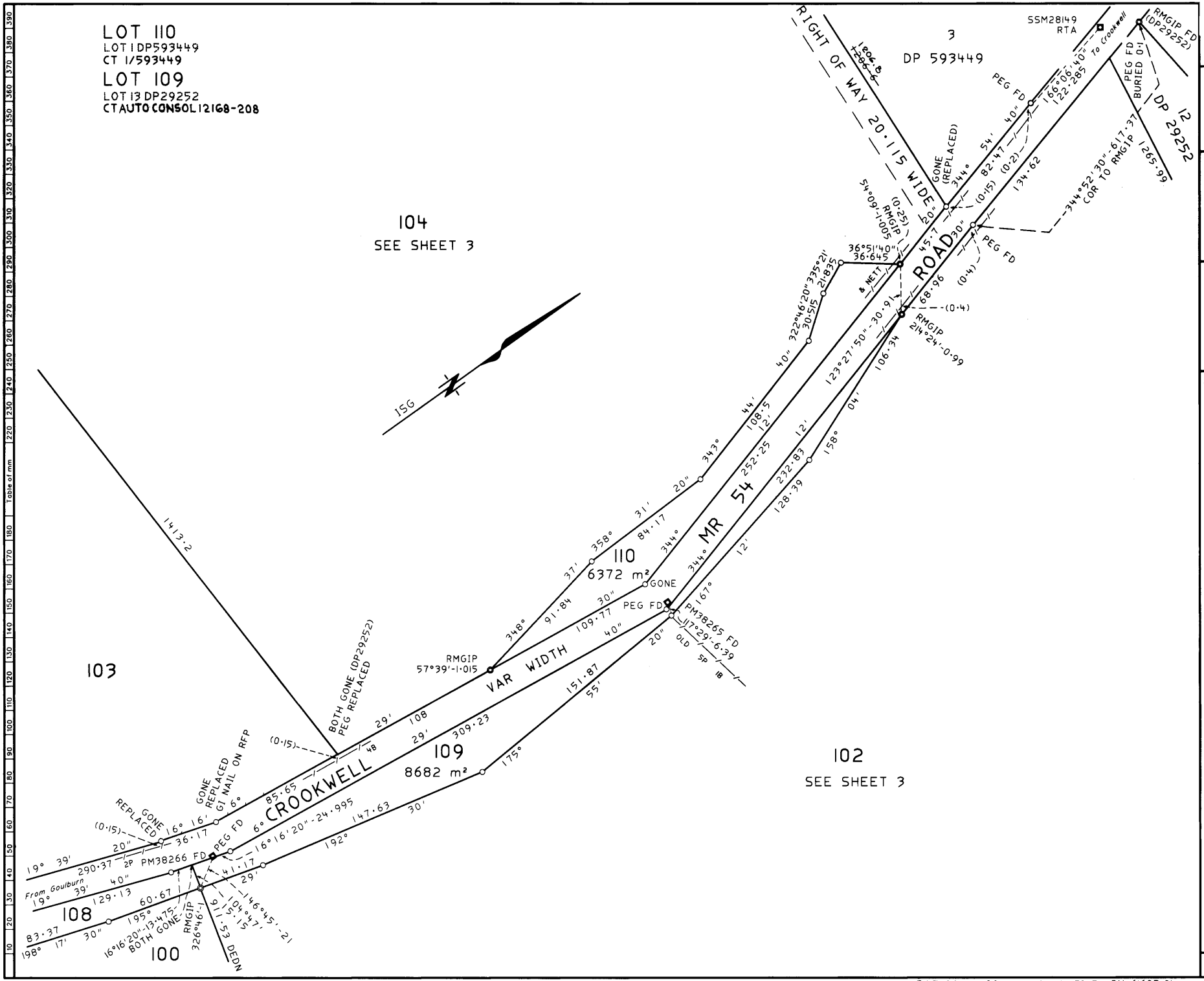
R.T.A. FILE : PM 61685·04 R.T.A. PLAN: 0054 297 SS 0166

Req:R006798 /Doc:DP 1007433 P /Rev:17-Nov-1999 /NSW LRS /Pgs:ALL /Prt:24-Jan-2023 09:16 /Seq:1 of 3
© Office of the Registrar-General /Src:GlobalX /Ref:advlegs

PLAN FORM 3

To be used in conjunction with Plan Form 2

WARNING : CREASING OR FOLDING WILL LEAD TO REJECTION




DP1007433

Registered: 16.11.1999

This is sheet 2 of my plan in 3 sheets dated 3-9-1999

Signature Anthony Beamsley 23/9/99
Surveyor registered under Surveyors Act, 1929.

This is sheet of the plan of sheets covered by Subdivision Certificate No.: ..... of .....

* Authorised Person/General Manager/Accredited Certifier..
* Delete whichever is inapplicable

L.G.A.: MULWAREE SHIRE
Locality: KINGSDALE
Parish: NARRANGARRIL
County: ARGYLE

For use where space is insufficient in any panel on Plan Form 2

Lengths are in metres. Reduction Ratio 1:1500

Plan Drawing only to appear in this space

H.O.FILE: 99M4429 R.T.A. FILE : PM 61685·04 R.T.A. PLAN : 0054 297 SS0166

Req:R006798 /Doc:DP 1007433 P /Rev:17-Nov-1999 /NSW LRS /Pgs:ALL /Prt:24-Jan-2023 09:16 /Seq:2 of 3
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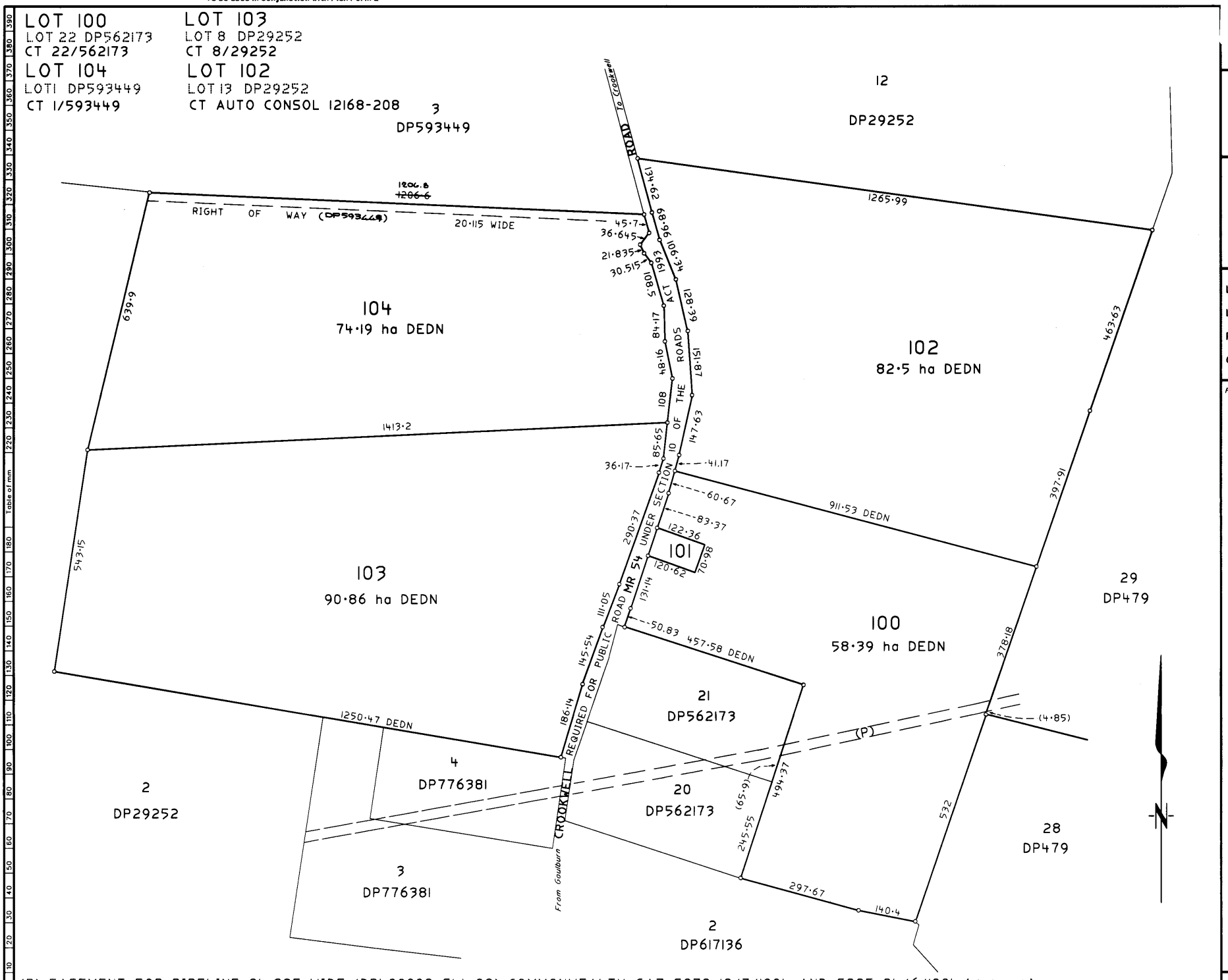
**PLAN FORM 3** To be used in conjunction with Plan Form 2

WARNING : CREASING OR FOLDING WILL LEAD TO REJECTION




(P) EASEMENT FOR PIPELINE 24·385 WIDE (DP499002 Sht 92) COMMONWEALTH GAZ S272 12/7/1994 AND S225 24/6/1994 (Q147076)

**DP1007433**

Registered: 16.11.1999

This is sheet 3 of my plan in 3 sheets
dated 3-9-1999

Signature Anthony Bamford 23/9/99
Surveyor registered under Surveyors Act, 1929

This is sheet of the plan of sheets
covered by Subdivision Certificate No.:
of

* Authorised Person/General Manager/Accredited Certifier..
* Delete whichever is inapplicable

L.G.A.: MULWAREE SHIRE
Locality: KINGSDALE
Parish: NARRANGARRIL
County: ARGYLE

For use where space is insufficient in any panel on Plan Form 2.

Lengths are in metres. Reduction Ratio 1:6000

Plan Drawing only to appear in this space

H.O.FILE: 99M4429 R.T.A. FILE : PM 61685·04 R.T.A. PLAN : 0054 297 S50166

Req:R006798 /Doc:DP 1007433 P /Rev:17-Nov-1999 /NSW LRS /Pgs:ALL /Prt:24-Jan-2023 09:16 /Seq:3 of 3
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NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
24/1/2023 9:16AM

FOLIO: 103/1007433

First Title(s): OLD SYSTEM
Prior Title(s): 8/29252

| Recorded | Number | Type of Instrument | C.T. Issue |
|---|---|---|---|
| 16/11/1999 | DP1007433 | DEPOSITED PLAN | LOT RECORDED<br>FOLIO NOT CREATED |
| 24/7/2000 | 6967784 | DEPARTMENTAL DEALING | FOLIO CREATED<br>EDITION 1 |
| 4/11/2002 | 9096411 | TRANSFER | EDITION 2 |
| 30/4/2004 | AA603417 | LEASE | EDITION 3 |
| 3/6/2004 | AA687733 | DEPARTMENTAL DEALING | |
| 20/5/2009 | AE690362 | LEASE | EDITION 4 |
| 8/1/2014 | AI276342 | LEASE | EDITION 5 |
| 16/9/2019 | AP533340 | LEASE | EDITION 6 |
| 9/10/2019 | AP594950 | DEPARTMENTAL DEALING | EDITION 7 |

*** END OF SEARCH ***

advlegs PRINTED ON 24/1/2023

Obtained from NSW LRS on 24 January 2023 08:16 AM AEST

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NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: 103/1007433

| SEARCH DATE | TIME | EDITION NO | DATE |
|---|---|---|---|
| 24/1/2023 | 9:16 AM | 7 | 9/10/2019 |

LAND

LOT 103 IN DEPOSITED PLAN 1007433
AT DP1007433
LOCAL GOVERNMENT AREA GOULBURN MULWAREE
PARISH OF NARRANGARRIL COUNTY OF ARGYLE
TITLE DIAGRAM DP1007433

FIRST SCHEDULE

ALIMACO PTY LTD (T 9096411)

SECOND SCHEDULE (2 NOTIFICATIONS)

1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
2 AP533340 LEASE TO MARTIN GERARD CROKER, MARGARET MAUREEN CROKER & BENJAMIN SCOTT CROKER OF "ONSLOW", 515 CROOKWELL RD, GOULBURN EXCLUDING THE PRINCIPAL DWELLING HOUSE. EXPIRES: 31/3/2024. OPTION OF RENEWAL: 2 YEARS.

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

advlegs PRINTED ON 24/1/2023

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**Appendix XI**

**Groundwater bore on site**

# WaterNSW
## Work Summary

### GW050231

**Licence:**
**Licence Status:**
**Authorised Purpose(s):**
**Intended Purpose(s):** STOCK
**Work Type:** Bore open thru rock
**Work Status:**
**Construct.Method:** Rotary Air
**Owner Type:** Private
**Commenced Date:**
**Completion Date:** 01/02/1980
**Final Depth:** 38.10 m
**Drilled Depth:** 38.10 m
**Contractor Name:** (None)
**Driller:**
**Assistant Driller:**
**Property:**
**GWMA:**
**GW Zone:**
**Standing Water Level (m):**
**Salinity Description:** Good
**Yield (L/s):**

## Site Details

**Site Chosen By:**

| | County | Parish | Cadastre |
|---|---|---|---|
| **Form A:** | ARGYLE | NARRANGARRIL | 1 |
| **Licensed:** | | | |

**Region:** 10 - Sydney South Coast
**CMA Map:** 8828-4S
**River Basin:** 212 - HAWKESBURY RIVER
**Area/District:**
**Grid Zone:**
**Scale:**
**Elevation:** 0.00 m (A.H.D.)
**Elevation Source:** (Unknown)
**Northing:** 6155594.000
**Easting:** 747509.000
**Latitude:** 34°42'42.4"S
**Longitude:** 149°42'09.3"E
**GS Map:** -
**MGA Zone:** 55
**Coordinate Source:** GD.,ACC.MAP

## Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

| Hole | Pipe | Component | Type | From (m) | To (m) | Outside Diameter (mm) | Inside Diameter (mm) | Interval | Details |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1 | Casing | Welded Steel | -0.30 | 5.80 | 165 | | | Driven into Hole |

## Water Bearing Zones

| From (m) | To (m) | Thickness (m) | WBZ Type | S.W.L. (m) | D.D.L. (m) | Yield (L/s) | Hole Depth (m) | Duration (hr) | Salinity (mg/L) |
|---|---|---|---|---|---|---|---|---|---|
| 12.20 | 12.80 | 0.60 | Fractured | 9.10 | | 0.25 | | | |
| 22.90 | 38.10 | 15.20 | Fractured | 9.10 | | 1.01 | | | |

## Drillers Log

| From (m) | To (m) | Thickness (m) | Drillers Description | Geological Material | Comments |
|---|---|---|---|---|---|
| 0.00 | 0.30 | 0.30 | Topsoil | Topsoil | |
| 0.30 | 2.10 | 1.80 | Clay | Clay | |
| 2.10 | 5.80 | 3.70 | Granite Decomposed | Granite | |
| 5.80 | 38.10 | 32.30 | Granite Water Supply | Granite | |

***** End of GW050231 *****

**Warning To Clients: This raw data has been supplied to the NSW Office of Water by drillers, licensees and other sources. The NOW does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.**